Using Flexible Cash Leases to Manage Risk and Increase Profitability in 2023

Jim Jansen

Agricultural Economist jjansen4@unl.edu 402-261-7572



1

DISCLAIMER

- Land values and rental rates shown and discussed in this presentation are excerpts from the UNL Nebraska Farm Real Estate Market Survey.
- Information provided in this presentation are averages from these surveys. Actual land values and rental rates may vary depending upon the quality of the parcel and local market forces for an area.



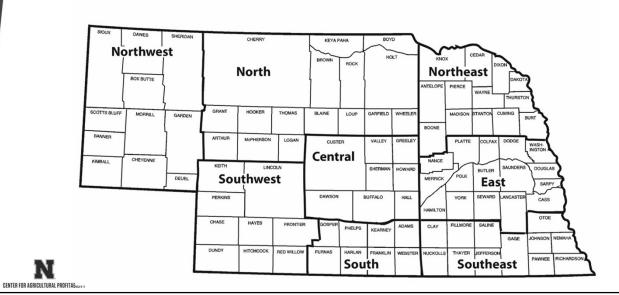
Nebraska Farm Real Estate Survey

- Annual survey conducted since 1978 of Nebraska agricultural appraisers, professional farm managers, and bankers engaged in the land industry.
- Preliminary results for land values and rental rates published the second week of March.
- Full report published in June.
- Nebraska Farm Real Estate website full access to these resources: http://cap.unl.edu/realestate



3

Nebraska Agricultural Statistics Districts

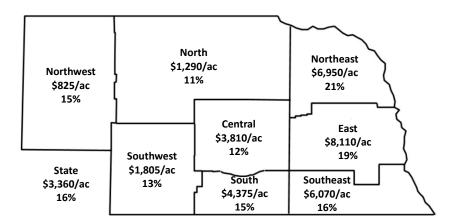


Nebraska Land Values Land Averages and Annual Percent Changes

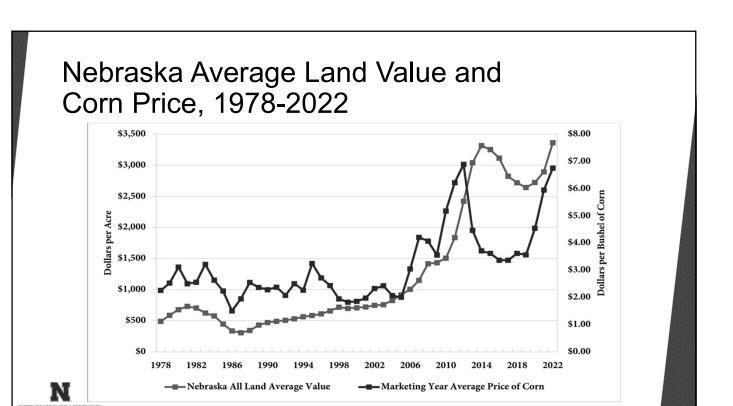


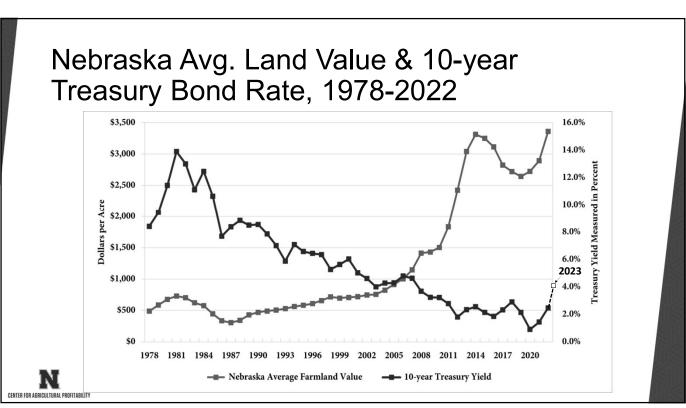
5

Nebraska Agricultural Average All Land Value – Feb. 1, 2022



CENTER FOR AGRICULTURAL PROFITABILITY





Refundable Nebraska Income Tax Credit for Property Taxes Paid to Schools

Source: Office of the NE Governor - https://governor.nebraska.gov/

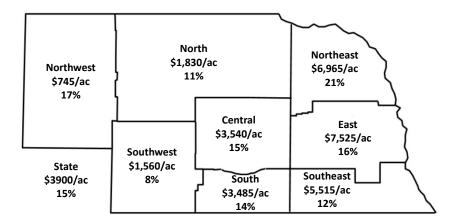
- For tax year 2022, the property tax credit rebate on taxes paid to K-12 public schools will grow from 25% to 30%. Nebraska property taxpayers will also be eligible for a new 30% rebate on property taxes paid to community colleges.
- Tax Commissioner Tony Fulton reminded Nebraskans of the need to claim their refundable income tax credit on property taxes. These credits can be claimed retroactively going back three years.
- For information on how to claim the refundable income tax credit, go to revenue.nebraska.gov/about/nebraska-property-tax-credit.

For information purposes only. Seek guidance from a tax professional or the Department of Revenue for specific questions on the tax credit.

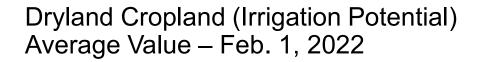


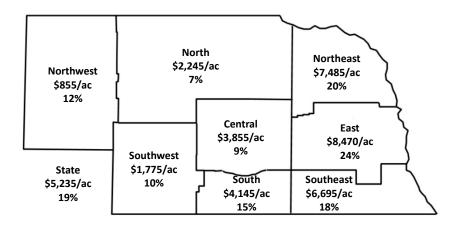
9

Dryland Cropland (No Irrigation Potential) Average Value – Feb. 1, 2022



CENTER FOR AGRICULTURAL PROFITABILITY



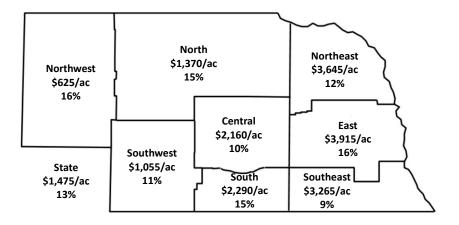


N

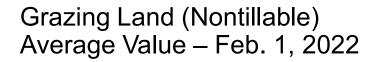
Source: UNL Nebraska Farm Real Estate Market Surveys, 2021 and 2022.

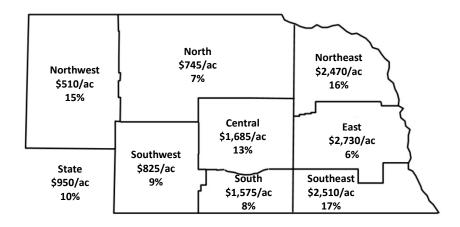
11

Grazing Land (Tillable) Average Value – Feb. 1, 2022



CENTER FOR AGRICULTURAL PROFITABILITY



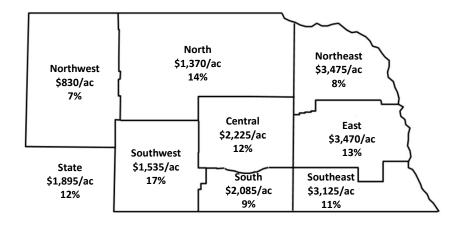


E END ACCIONITION DESCRIPABILITY

Source: UNL Nebraska Farm Real Estate Market Surveys, 2021 and 2022.

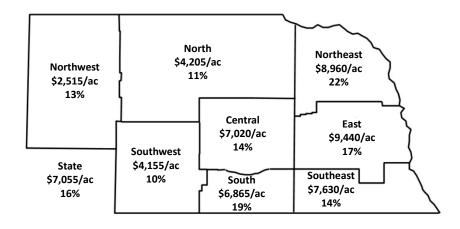
13





CENTER FOR AGRICULTURAL PROFITABILITY



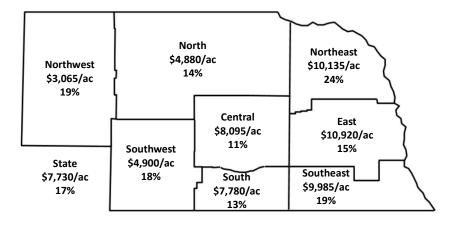


N

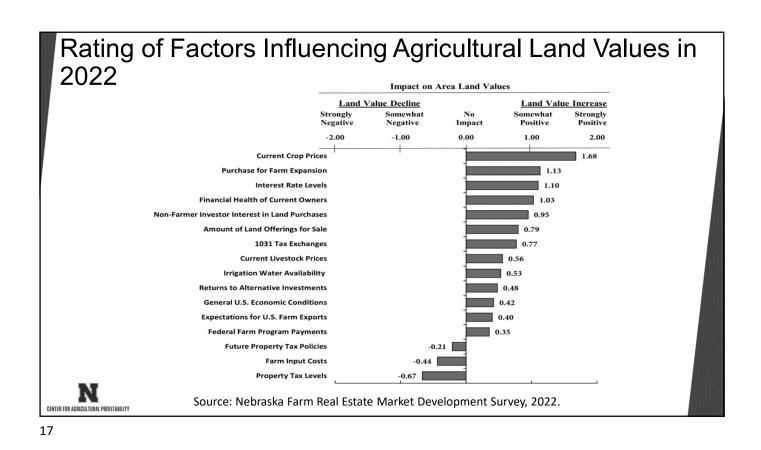
Source: UNL Nebraska Farm Real Estate Market Surveys, 2021 and 2022.

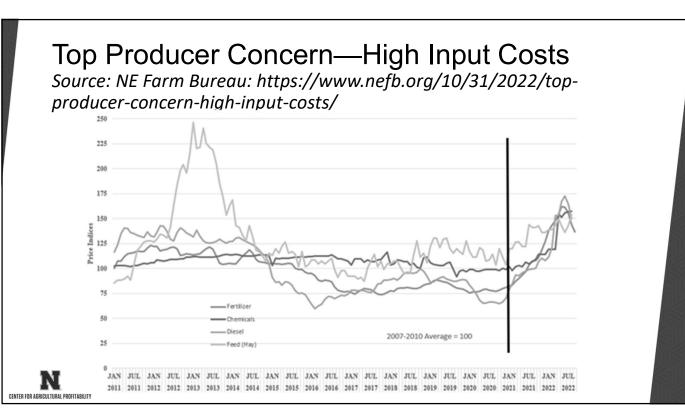
15

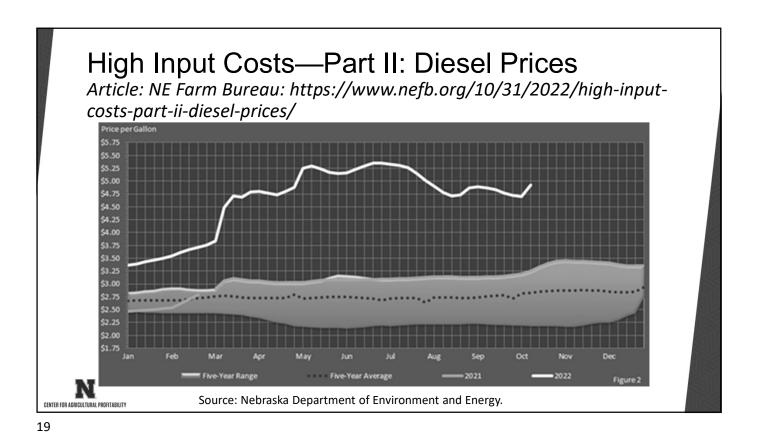
Center Pivot Irrigated Cropland Average Value – Feb. 1, 2022

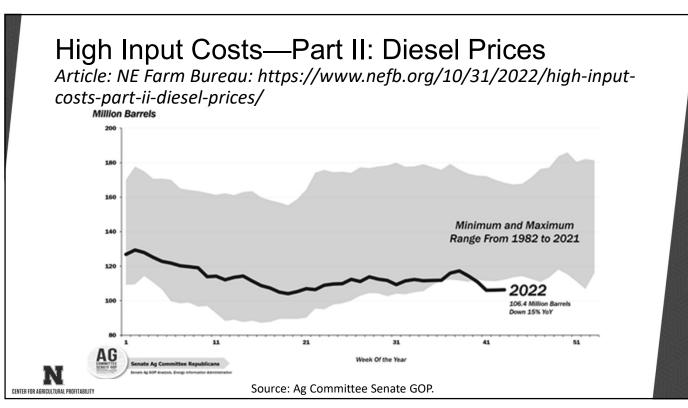


CENTER FOR AGRICULTURAL PROFITABILITY







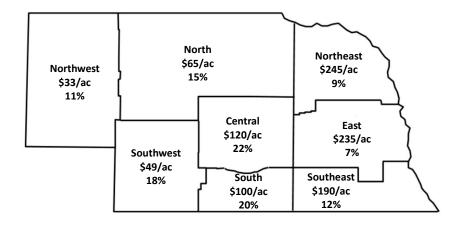


Nebraska Cash Rental Rates Dryland Cropland Rental Rates

NTER FOR AGRICULTURAL PROFITABILITY

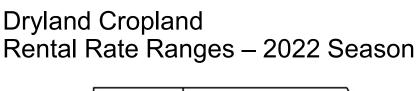
21

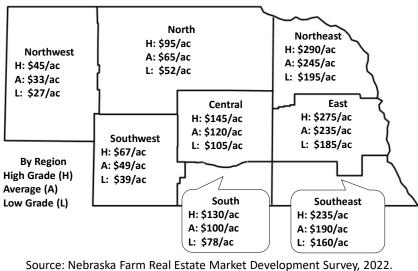
Dryland Cropland Average Rental Rates – 2022 Season



CENTER FOR AGRICULTURAL PROFITABILITY

Source: Nebraska Farm Real Estate Market Development Survey, 2022.

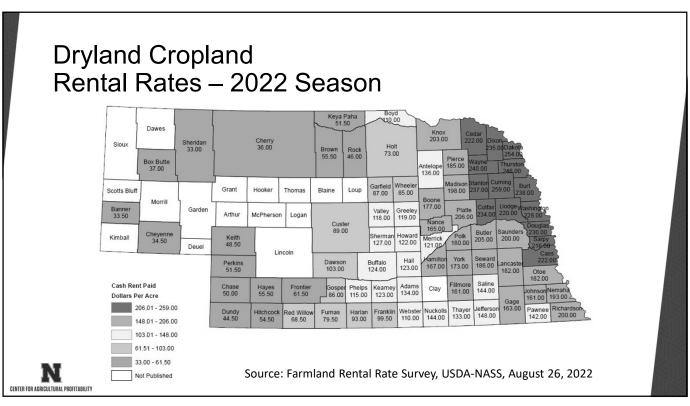




USDA-National Agricultural Statistics Service Cash Rent Survey

- Biennial survey conducted by the USDA-National Agricultural Statistics Service (NASS) of farmers and ranchers
 - Survey starts in late-winter and conducted through mid-summer of odd-numbered years (some even-number yeas as well)
 - Analysis published around the second week of September
- Nebraska county estimates in addition to other resources may be found at: www.nass.usda.gov/Statistics_by_State/Nebraska/Publications/County_Estimates/

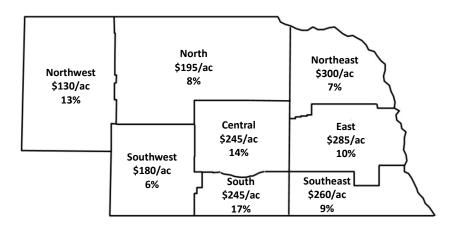




Nebraska Cash Rental Rates Irrigated Cropland Rental Rates

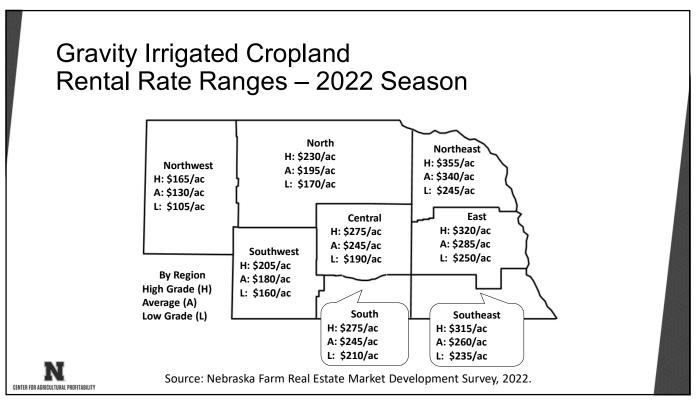
ITER FOR AGRICULTURAL PROFITABILIT



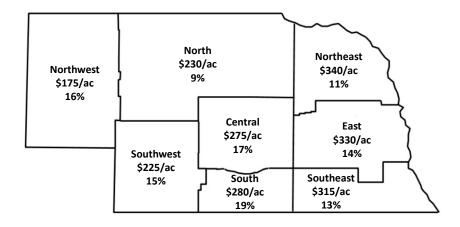


Source: Nebraska Farm Real Estate Market Development Survey, 2022.

27



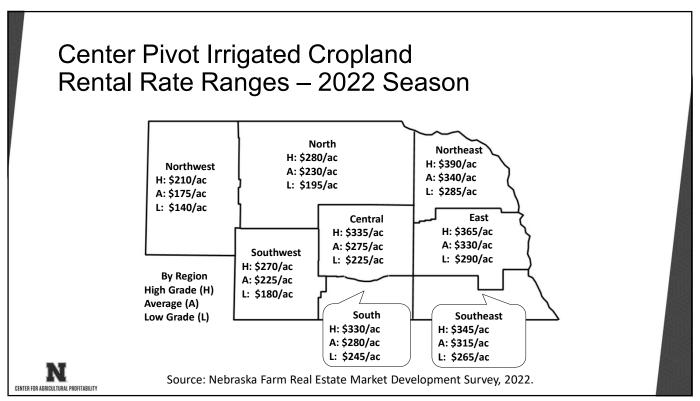


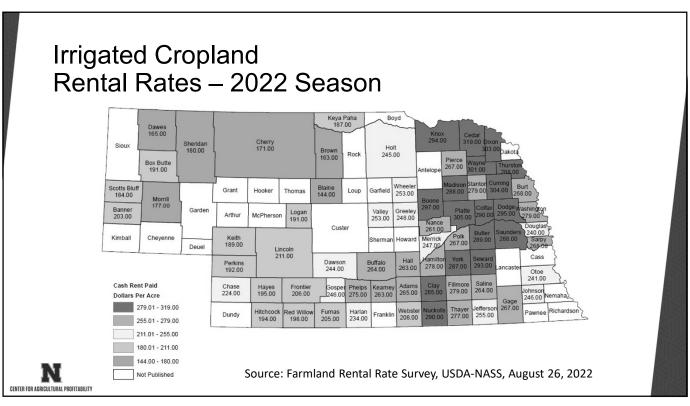


N

Source: Nebraska Farm Real Estate Market Development Survey, 2022.

29

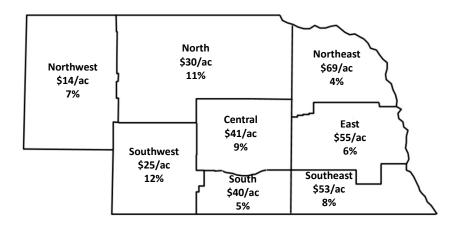




Nebraska Cash Rental Rates Pasture and Cow-Calf Pairs Rental Rates



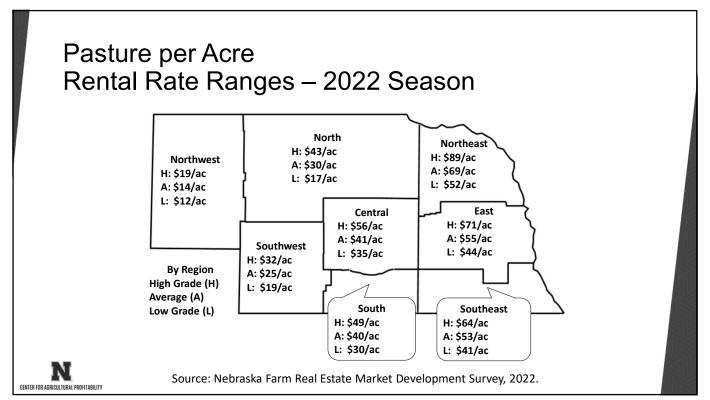


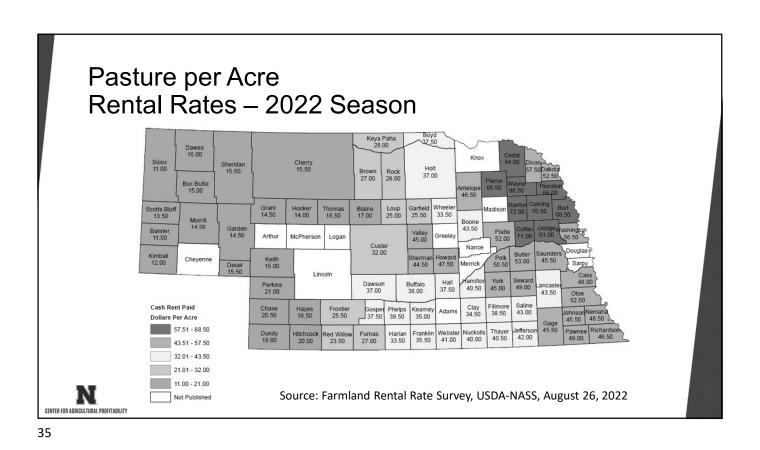


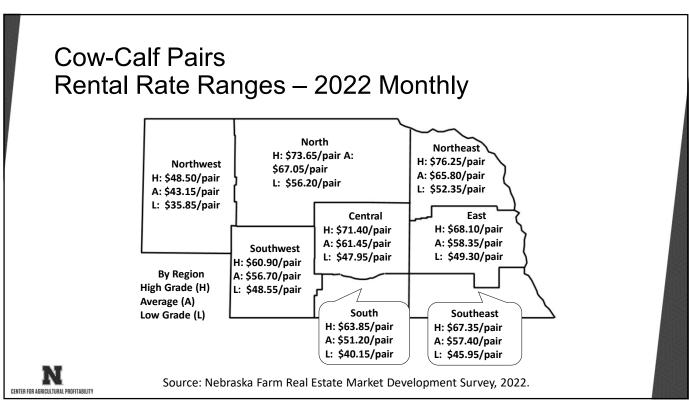
D END ACCIPILITION DONEITABILITY

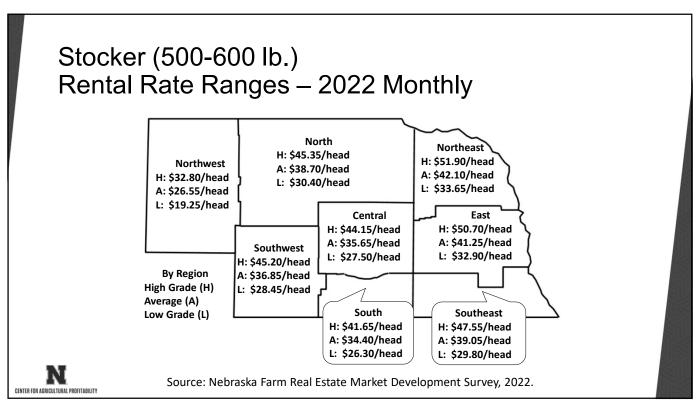
Source: Nebraska Farm Real Estate Market Development Survey, 2022.

33



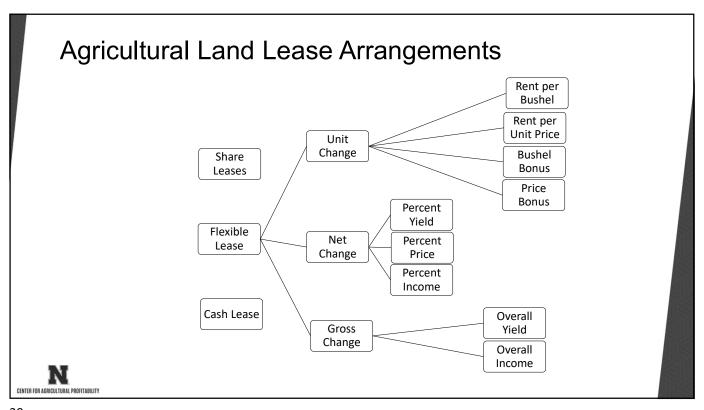






Agricultural Flex Lease Arrangements Alternative Farmland Leases for 2023

ENTER FOR AGRICULTURAL PROFITABILITY



Establishing the Base Rental Rate

- Methods for estimating the base rental rate:
 - Adjusting survey data
 - Cash equivalent from crop share
 - · Return on investment
- What I am willing and able to accept and tenant is willing and able to pay?
 - Tenant: What is the maximum I can pay?
 - Landlord: What is the minimum I am willing to accept?



How will the flex lease be Adjusted?

- Compare expected farm performance against actual crop yield, price, or revenue
 - If performance is better than expected, more rent is paid
 - If performance is less than expected, less rent is paid





41

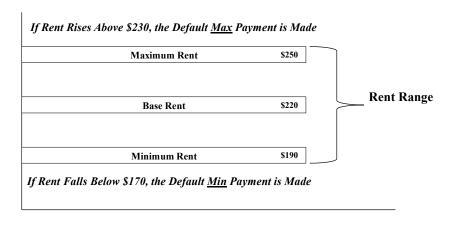
Limiting Risk Exposure

- Set upper and lower limits for your contract
- Do not expose yourself to unlimited upside and downside risk
- How do you do that?





Establishing the Ceiling and Floor





43

USDA Farm Bill Requirements

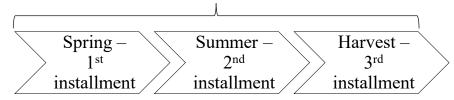
- USDA-Farm Service Agency regulations on farm program payments mandates that a cash lease include:
 - Any specific guarantee of price or division of crop within reason for the region
 - If an alternative lease guarantees a minimum payment of \$300 per acre, is this requirement met?
 - What about if the guarantee is only \$50 per acre?



When is the payment made?

- As the tenant and landowner, you need to decide on when payment is made
- Final yield unknown until after harvest
- Decide on when a minimum is due

Minimum Payment Due – one time or split it up over the season?



ENTER FOR AGRICULTURAL PROFITABILITY

45

Adjusting the Base Cash Rent Flexible Cash Lease Arrangements

ENTER FOR AGRICULTURAL PROFITABILIT

Variable Rent by Yield Adjustment

Farm Base Rent		
Rental Rate	\$220/ac.	
5-yr Farm APH	150 bu.	
Percent Change in Yield		
Actual Production	135 bu.	
Difference (135 bu 150 bu.)	-15 bu.	
Percent Change [135 bu 150 bu.] x 100	-10.0 %	
Final Rent		
Rental Rate	\$220/ac.	
Percent Decrease in Rent (\$220 x -10.0%)	-\$22/ac.	
Final Rent	\$198/ac.	
In this example a farmer produced 90% of the APH, meaning the landlowner will receive 90% of the negotiated base rental rate		



47

Variable Rent by Yield Adjustment

Farm Base Rent		
Rental Rate	\$220/ac.	
5-yr Farm APH	150 bu.	
Percent Change in Yield		
Actual Production	165 bu.	
Difference (165 bu 150 bu.)	15 bu.	
Percent Change [165 bu 150 bu.] x 100 [150 bu.]	10.0 %	
Final Rent		
Rental Rate	\$220/ac.	
Percent Increase in Rent (\$220 x 10.0%)	\$22/ac.	
Final Rent	\$242/ac.	
In this example a farmer produced 110% of meaning the landowner will receive 110% o base rental rate.		



Variable Rent by Crop Price

Farm Base Rent			
Rental Rate	\$220/ac.		
5-yr Farm APH	150 bu.		
Planting Time Price Guarantee	\$5.90/bu.		
Harvesting-Time Price Increase			
Actual Harvest Time Price Guarantee	\$6.35/bu.		
Difference (\$6.35/bu \$5.90/bu.) \$0.4			
Percent [\$6.35/bu \$5.90/bu.] x 100 Change [\$5.90/bu.]	7.6 %		
Final Rent			
Rental Rate	\$220/ac.		
Percent Increase in Rent (\$220 x 7.6%)	\$17/ac.		
Final Rent \$237.			

Farm Base Rent			
Rental Rate	\$220/ac.		
5-yr Farm APH	150 bu.		
Planting Time Price Guarantee	\$5.90/bu.		
Harvesting-Time Price Decrease			
Actual Harvest Time Price Guarantee	\$5.45/bu.		
Difference (\$5.45/bu \$5.90/bu.)	-\$0.45/bu.		
Percent [\$5.45/bu \$5.90/bu.] x 100 Change [\$5.90/bu.]	-7.6 %		
Final Rent			
Rental Rate	\$220/ac.		
Percent Decrease in Rent (\$220 x -7.6%)	-\$17/ac.		
Final Rent	\$203/ac.		



49

Variable Rent by Crop Revenue

Farm Base Rent		
Rental Rate	\$220/ac.	
Expected Yield	150 bu.	
Expected Farm Price	\$5.90/bu.	
Expected Farm Income*	\$885/ac.	
Harvesting-Time Price Increase		
Actual Yield	140 bu.	
Actual On-Farm Price	\$6.65/bu.	
Actual Farm Income*	\$931/ac.	
Difference (\$931/ac \$885/ac.)	\$46/ac.	
Percent [S931/ac S885/ac.] x 100 Change	5.2 %	
Final Rent		
Rental Rate	\$220/ac.	
Percent Increase in Rent (\$220 x 5.2%)	\$11/ac.	
Final Rent	\$231/ac.	

Farm Base Rent		
Rental Rate	\$220/ac.	
Expected Yield	150 bu.	
Expected Farm Price	\$5.90/bu.	
Expected Farm Income*	\$885/ac.	
Harvesting-Time Price Decre	ase	
Actual Yield	165 bu.	
Actual On-Farm Price	\$5.35/bu.	
Actual Farm Income*	\$883/ac.	
Difference (\$883/ac \$885/ac.)	-\$2/ac.	
Percent [S883/ac S885/ac.] Change [S885/ac.] x 100	-0.3 %	
Final Rent		
Rental Rate	\$220/ac.	
Percent Decrease in Rent (\$220 x -0.3%)	-\$1/ac.	
Final Rent	\$219/ac.	

 ${\bf *Expected\ and\ actual\ farm\ income\ do\ not\ include\ any\ safety\ net\ payments\ or\ crop\ insurance\ indemnity.}$

^{*}Expected a

Agricultural Land Leases Trends in Lease Arrangements for 2022-2023



51

Estimating Cash Rental Rates by Adjusting Survey Data

- Land rental rate survey data:
 - Evaluate available cash rental survey data to establish a baseline in the landlord and tenant negotiation process.
- Average yields:

County	Value	Farm	Value
County Rental Rate	\$190/ac.	County Rent/Bushel	\$1.42/bu.
Corn Yield	<u>134 bu./ac.</u>	APH Yield	<u>x 119 bu./ac.</u>
County Rent/Bushel	\$1.42/bu.	Farm Level Rent	\$168.73/ac.



Cash Equivalent From Crop Share

- Rent paid to landlord by tenant based off owner's share of net returns per acre.
 - Example 50/50 split:

Value	Corn - March 2023	Corn - July 2023	Corn - Nov. 2023
Yield (50% share)	70 bu./ac.	70 bu./ac.	70 bu./ac.
Price/bushel	<u>x \$6.65/bu.</u>	<u>x \$6.30/bu.</u>	<u>x \$6.15/bu.</u>
Income	\$465.50/ac.	\$441.00/ac.	\$430.50/ac.
Owner Expenses*	<u>-\$215.00/ac.</u>	<u>-\$215.00/ac.</u>	<u>-\$215.00/ac.</u>
Net Return to Owner (Effective Rent)	\$250.50/ac.	\$226.00/ac.	\$215.50/ac.



53

Cash Equivalent From Hay Share

- Rent paid to landlord by tenant based off owner's share of net returns per acre.
 - Example 33/67 & 50/50 split:

Value	33:67 Hayland Share	50:50 Hayland Share
Yield (share)	0.83 ton/ac.	1.25 tons/ac.
Price/ton	<u>x \$120/ton</u>	<u>x \$120/ton</u>
Income	\$99/ac.	\$150/ac.
Owner Expenses*	<u>-\$0/ac.</u>	<u>-\$25.00/ac.</u>
Net Return to Owner (Effective Rent)	\$99.00/ac.	\$125.00/ac.

^{*}In this example, the owner does not pay any expenses for the 33/67 hay share. Also, the owner pays \$25 per acre in fertilizer expense for the 50/50 hay share.



Return on Investment

• Multiply the estimated current market value by the expected rate of return to determine the rental rate per acre.

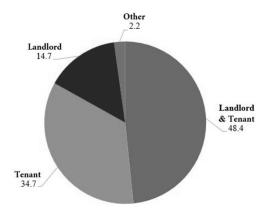
Farm	Dryland	Irrigated
railli	Cropland	Cropland
Land Value	\$6,500/ac.	\$9,950/ac.
Rate of Return	<u>x 2.8-3.2%</u>	<u>x 3.1-3.5%</u>
Rental Rate per Acre	\$182-\$208/ac.	\$308-\$348/ac.

^{*}Estimated net rates of return by land type are available in Table 5 of the Nebraska Farm Real Estate Market Highlights Report 2021-2022.



55

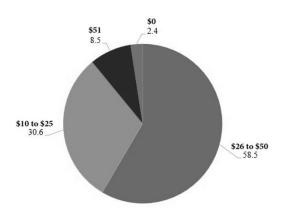
Entity Responsible for Maintaining Irrigation System as Part of Cash Lease in Nebraska



CENTER FOR AGRICULTURAL PROFITABILITY

Source: Nebraska Farm Real Estate Market Development Survey, 2018.

Discount on Cash Rent per Acre When Tenant Owns Pivot for Irrigation System in Nebraska



TER ERR AGRICULTURAL PROFESTABILITY

Source: Nebraska Farm Real Estate Market Development Survey, 2018.

57

Discount on Cash Rent per Acre When Tenant Owns Power Unit for Irrigation System in Nebraska

Power Unit	Discount per Acre			
Power Clift	\$0	\$1 to \$9	\$10 to \$20	\$20+
		Percent of R	espondents	
System Type				
Diesel Engine	23	34	35	8
Propane or Natural Gas Engine	23	43	31	3
Electric Motor	20	42	26	12

ENTER FOR AGRICULTURAL PROFITABILITY

Source: Nebraska Farm Real Estate Market Development Survey, 2018.

Reported Cropland Lease Changes to Account for Higher Input Expenses in 2022

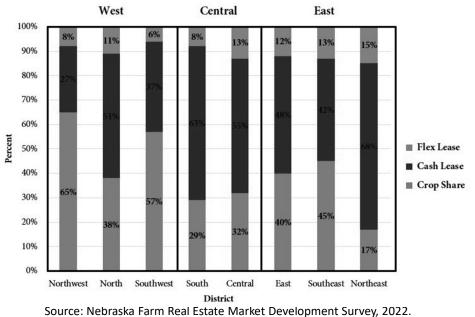
Adjustment to Transaction Method	Response Rate
	Percent
Switch to Crop Share	8
Switch to Flex Lease	23
Switch to Cash Rent	14
No Change	52
Other	3

ER FOR AGRICULTURAL PROFITABILITY

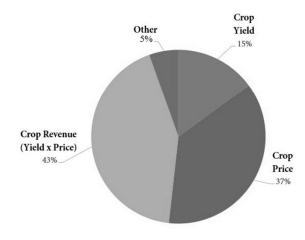
Source: Nebraska Farm Real Estate Market Development Survey, 2022.

59

Land Lease Rental Arrangements by Agricultural Statistics District in Nebraska for 2022



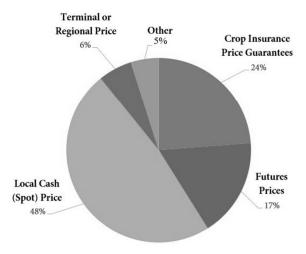




Source: Nebraska Farm Real Estate Market Development Survey, 2022.

61

Reported Crop Price for Flexing Cash Leases



Source: Nebraska Farm Real Estate Market Development Survey, 2022.

CENTER FOR AGRICULTURAL PROFITABILITY

Fillable PDF Leases – AgLease101.org Ag Lease 101 Document Library About Ag Lease 101 Click Document Ag Lease 101 Library Lease Publications **Lease Forms** Fixed and Flexible Cash Rental Arrefor Your Farm Cash Farm Lease (NCFMEC-01) Crop Share Farm Lease Cash Farm Lease Cash Farm Lease Fillable Lease (NCFMEC-02A) PDF Forms Publications Pasture Rental Arrangements For Your Farm Farm Building or Livestock Facility Lease Rental Agreements For Farm Buildings and Livestock Facilities Farm Machinery Lease for Non-common Transactions Purchasing and Leasing Farm Equipment (NCFMEC-05A) Livestock Rental Lease Beef Cow Rental Arrangements For Your Farm Farm Building Rental Rate Survey

63

Upcoming Webinar: Ag Land Mgt. Quarterly May 15, 2023 at 12:00 PM CDT

Topics

- Trends in Nebraska cash rental rates
 - Trends in Nebraska cash rental rates for 2023
 - Financial implications for changing commodity prices and adjusting cash rents
- Proper communication and decision making for agricultural land
 - Improving communication between landlords, tenants, and family members
 - Short- and long-term decision making for agricultural land
- Ask an Expert
 - Review of submitted questions and from meeting participants
 - Upcoming land management workshops and publications



Questions?

Jim Jansen Agricultural Economist jjansen4@unl.edu 402-261-7572



65