

Presented at: Dakota Cattle Conference

Drought and Livestock Forage Program

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www.ndsu.edu/livestockeconomics

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NDSU EXTENSION
SERVICE

Worksheet to evaluate feed alternatives hauling feed or hauling cattle.



www.sdstate.edu/economics/extension/extension-and-outreach

GENERAL INFORMATION

Average weight of cows in herd	1300
Pounds of feed required per head per day (3% of body weight)	39
Days to be fed	180
Number of head	200

BUY AND SHIP FEED

YOUR NUMBERS

Total amount of feed needed (tons)	702
Feed in inventory	0
Total tons of feed to be procured	702

Price of feed per ton	\$ 85.00
Total feed expense	\$ 59,670.00

Shipping cost

Shipping rate (\$/mile)	\$ 4.00
Miles to be shipped	100
Pounds per load	48,000
Number of loads need	34
Total Shipping Expenses	\$ 13,500.00

Yardage charge at ranch (covers cost of time, fuel and labor)

Rate per head per day	\$ 0.12
Total yardage rate at ranch	\$ 4,320.00

Total cost of purchased feed and feeding cattle	\$ 77,490.00
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BOARD CATTLE AT FEEDLOT			
	Total feed needed (tons)		702
	Price of feed at lot - - ENTER 0 IF FEED INCLUDED IN YARDAGE		\$ 85.00
	Total feed expense		\$ 59,670.00
	Cost of shipping cattle		
	Shipping rate (\$/mile)		\$ 4.00
	Miles to be shipped		200
	Cow/pairs per load		40
	Number of loads needed		5
	Total Cattle Shipping Expenses		\$ 4,000.00
	Yardage charge at feedlot		
	Rate per day		\$ 0.30
	Total yardage expenses		\$ 10,800.00
	Total cost to move and feed cattle in feedlot		\$ 74,470.00

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Calculations

2017

Green Acres Land & Cattle Co

Base Scenario										
Feedstuffs										
	bales/load	lbs/bale	lbs/load	lb/ton	tons/load	\$/mi Trucking	\$/Ton	Miles	Truckin/Ton	TC/Ton
Hay	35	1,350	47,250	2,000	23.625	5	100	75	15.87	115.87
Wheat Midds			50,000	2,000	25	5	95	20	4.00	99.00
DDG			50,000	2,000	25	5	150	40	8.00	158.00
Kochia Hay	35	1200	42,000	2,000	21	5	80	20	4.76	84.76
Pea Screenings			50,000	2,000	25	5	50	60	12.00	62.00

Nutrient Content & Feed Values									
Feedstuff	DM	TDN	CP	DM lb/ton	TDN lb/ton	CP lb/ton	\$/lb DM	\$/lb TDN	\$/lb CP
Hay	90%	53%	14%	1,800	954	252	\$ 0.064	\$ 0.121	\$ 0.460
Wheat Midds	90%	11%	14%	1,800	198	252	\$ 0.055	\$ 0.500	\$ 0.393
DDG	92%	86%	12%	1,840	1,582.40	220.80	\$ 0.086	\$ 0.100	\$ 0.716
Kochia Hay	87%	57.00%	17%	1,740	1,140	340	\$ 0.05	\$ 0.07	\$ 0.25
Pea Screenings	90%	75.50%	20%	1,800	1,510	400	\$ 0.03	\$ 0.04	\$ 0.16

Source: Levi Helmuth, N.D. Farm Business Management, Dickinson Research Extension Center

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Special thanks goes to Janna Kincheloe of Hettinger NDSU Extension for help with this spreadsheet.

Nutrient Content Feed Value Calculations were taken from:

Dahlen, Carl. Redden, R. "Comparing Value of Feedstuffs" (2015) AS1742

2014 Farm Bill

Four disaster programs authorized by the 2008 Farm Bill were extended indefinitely

Livestock Forage Disaster Program (LFP)

Compensation to eligible livestock producer for grazing losses due to drought or fire. Payments are 60 percent of monthly feed costs up to five months.

Livestock Indemnity Program (LIP)

Benefits to livestock producers for livestock deaths beyond normal mortality due to adverse weather or wild animals reintroduced by the federal government. Payment is 75 percent of market value.

Emergency Assistance for Livestock, Honeybees, and Farm-Raised Fish (ELAP)

Assistance to eligible producers due to disease, adverse weather, or other conditions such as wildfires, not covered by LFP and LIP. Total payment outlay is capped at \$20 million per fiscal year.

Tree Assistance Program (TAP)

Assistance for qualifying orchardists and nursery tree grower to replant or rehabilitate eligible trees, bushes and vines damaged by natural disasters.

Livestock disaster programs (LFP, LIP and ELAP) have a combined total annual payment limitation of \$125,000 per entity. The Tree Assistance Program has a separate \$125,000 payment limit.

Livestock Forage Disaster Program (LFP) Eligibility

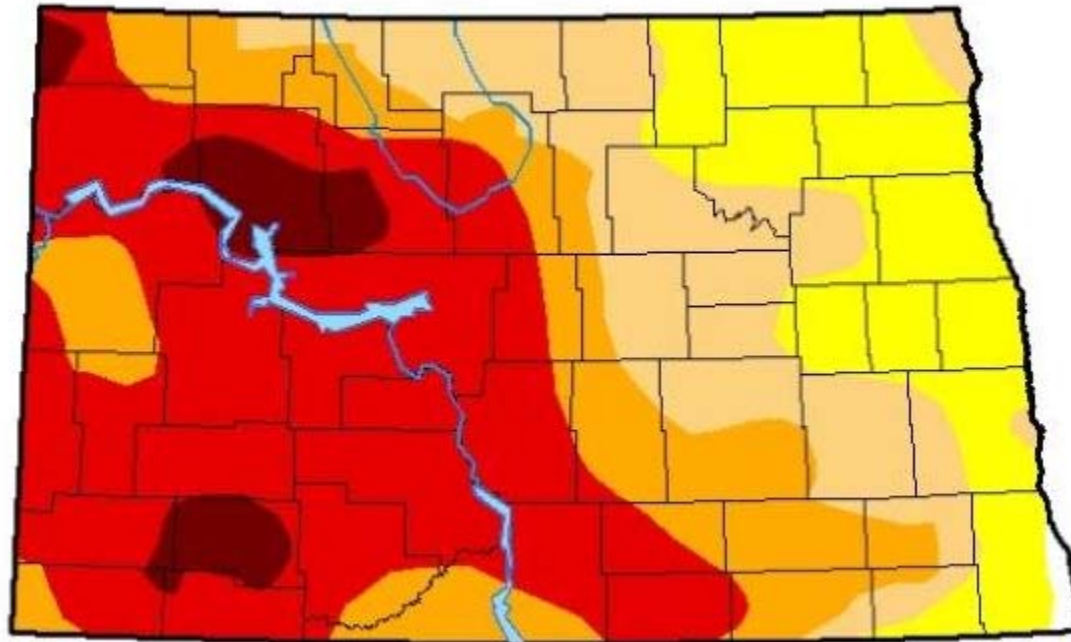
- Must own, lease or be a contract grower of covered livestock during the 60 days prior to the qualifying drought.
- Producers also must have owned or leased grazing land for the livestock in a county affected by drought, or rangeland managed by a federal agency for which eligible livestock producer is prohibited by the federal agency from grazing because of a qualifying fire.
- Certify that they have suffered a grazing loss (*this is done when you fill out LFP application for land in eligible county, ie. your signature*)
- Timely file an acreage report for all grazing land for which a loss of grazing is being claimed. (*Typically, Nov. 15 of previous year but USDA allowed a late filing for 2017 by Nov. 15, 2017*)

Eligible Livestock for LFP

Livestock Type & Weight Range		One Month's Feed Cost
Beef & Buffalo	Adult	\$30.00
	500 lbs or more	22.50
Dairy	Adult	78.00
	500 lbs or more	22.50
All Sheep, Goats & Deer		7.50
All Equine		22.20
Elk	Less than 400 lbs	6.60
	400 to 799 lbs	12.30
	800 lbs or more	16.20
All Reindeer		6.60
All Alpacas		24.71
All Emus		15.36
All Llamas		10.95

U.S. Drought Monitor North Dakota

August 15, 2017
(Released Thursday, Aug. 17, 2017)
Valid 8 a.m. EDT



Intensity:

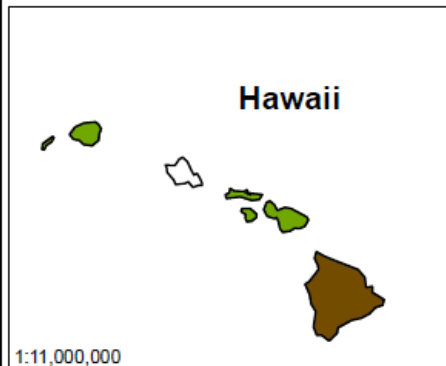
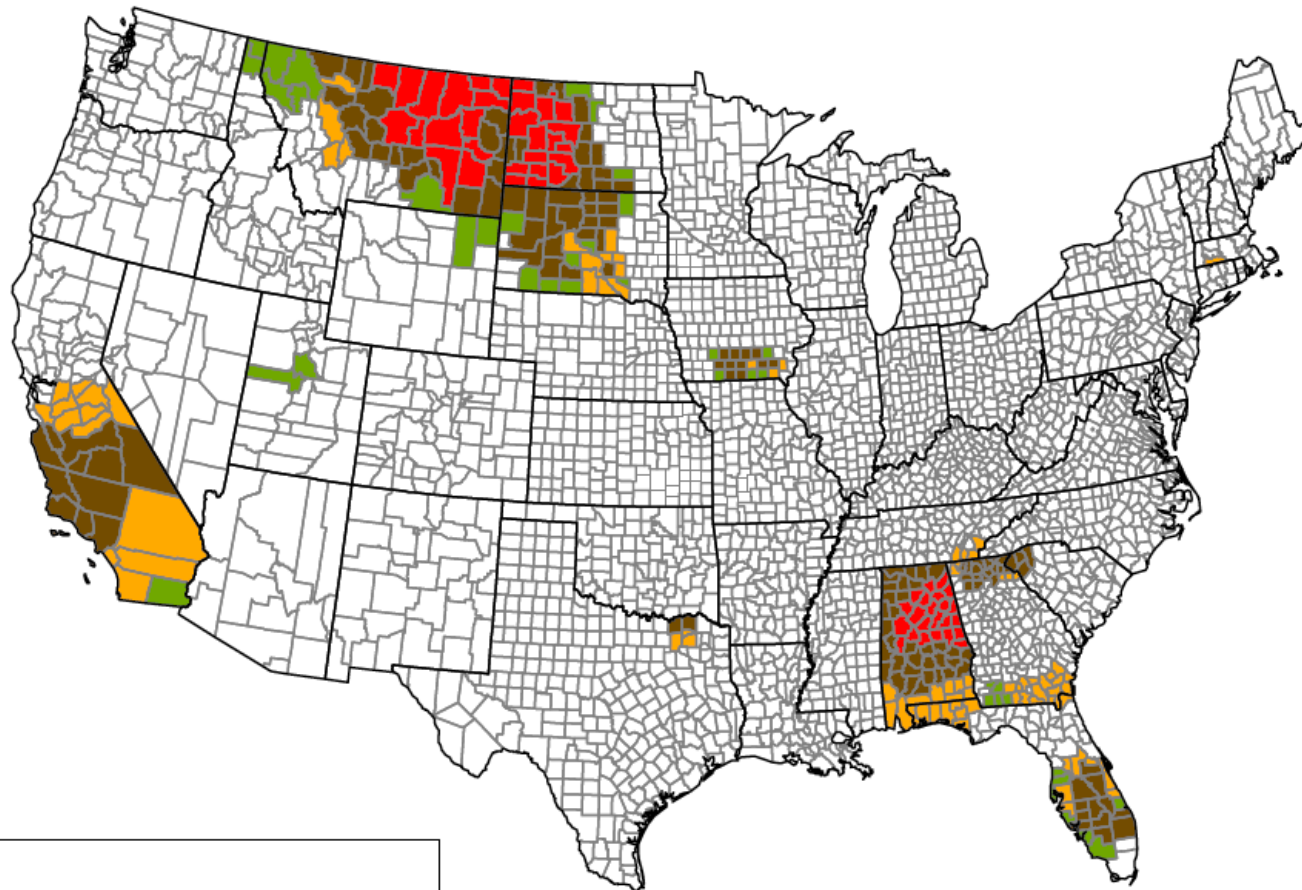


<http://droughtmonitor.unl.edu/>

Monthly payments for a county if the following occurs during the normal grazing period in any part of the county:

- 1 mo. D2 intensity in any area of the county for eight or more consecutive weeks
- 3 mo. D3 intensity in any area of the county for at least one week
- 4 mo. Either a D4 intensity for at least one week, or a D3 intensity for at least four weeks. The weeks do not have to be consecutive.
- 5 mo. D4 intensity for at least four weeks. The weeks do not have to be consecutive.

Livestock Forage Program Full Season Improved Pasture - 2017 Program Year



Eligible County
Payment Months



Map Scales Vary
Data Update - 11/16/17

N.D. Counties Eligible for LFP for 2017

1 mo. pmt	3 mo. pmt	4 mo. pmt	5 mo. pmt
Bottineau		Billings	Adams
LaMoure		Burke	Bowman
Pierce		Burleigh	Divide
		Dickey	Dunn
		Emmons	Grant
		Golden Val.	Hettinger
		Kidder	McKenzie
		Logan	McLean
		McHenry	Mercer
		McIntosh	Morton
		Renville	Mountrail
		Sheridan	Oliver
		Sioux	Slope
			Stark
			Ward
			Williams

ND LFP Carrying Capacity

Acres/Animal Unit

County	Pasture	
	Native	Improved
Pierce	7	3
McHenry	8	4
Ward	8	4
McLean	8	4
Mountrail	9	5
Burke	10	5
Renville	10	5

Payments are based on the lesser of the no. of livestock times their payment rate per month, and the monthly value of pasture carrying capacity

Livestock Current Year Inventory*

Livestock Type & Weight Range		Number of Head	One Mo. Pmt Rate per Hd	Total Monthly Feed Cost
Beef & Buffalo	Adult	175	30.00	5,250.00
	500 lbs or more	31	22.50	697.50
A) Total monthly feed cost for all livestock				5,947.50

*Inventory during the 60 days prior to date of qualifying drought

Forage Information - Owned or Cash Leased Land in Ward ND County

Pasture Type	Acres	Acres per Animal Unit (AU)	Maximum AU Capacity	Monthly Value of Forage	Mo. Feed Cost at Capacity
Native	280	8.0	35.0	30.00	1,050.00
Improved	560	4.0	140	30.00	4,200.00
B) Total monthly feed cost at maximum carrying capacity					5,250.00

LFP Payment Estimate

Lesser of A) and B)	5,250.00
National Payment Factor	60%
Estimated Payment for one month	3,150.00
No. of monthly payments based on drought monitor	5
Estimated LFP payment before sequestration*	15,750.00
Sequestration reduction (-6.9%)	-1,087.00
Estimated final payment	14,663.00

*Actual payment may vary due to operators' grazing practices.

2017 LFP Payments

	Number	Dollars
ND	5,993	41,858,693
SD	6,568	57,508,117
MT	1,834	24,627,782
US	38,311	227,964,190

Source: www.fsa.usda.gov/programs-and-services/disaster-assistance-program

Questions?