Master Hay Grower
Risk Management
for Hay Growers



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Sources of Risk in Agriculture - Ag Risk 5

- 1. Marketing/Price Risk
- 2. Production Risk
- 3. Institutional/Legal Risk
- 4. Human Risk
- 5. Financial Risk

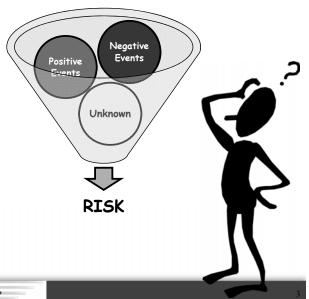


Cost of Loss

- Income
- Resources
- Productive capacity, etc.

Cost of Uncertainty

- Worry, doubt, fear, misallocation of resources, etc.
- With potential for gain or loss comes moral or ethical implications

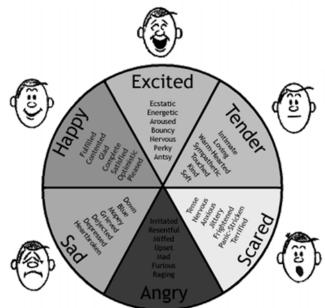






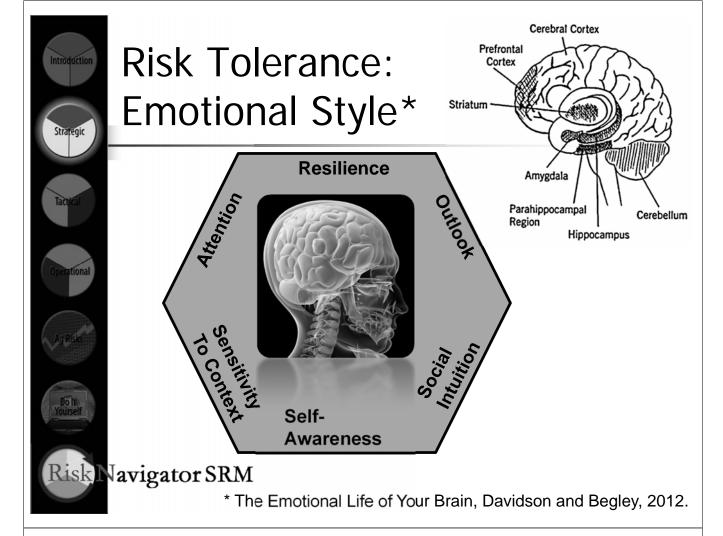
The Human Dimension of Risk Management

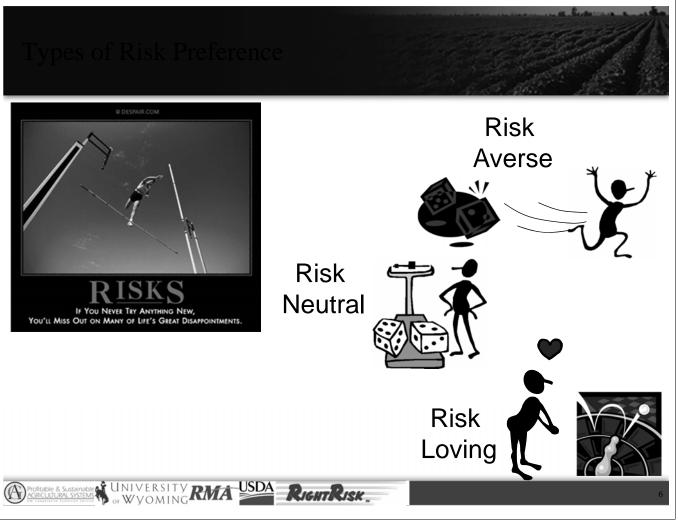
NOILOME



Risk Navigator SRM







Strategies for Managing Risk

- 1. Avoid it
- 2. Reduce it
 - a) Reduce the probability it will happen
 - b) Reduce the impact if it does happen
- 3. Transfer it outside the business
 - a) Insurance
 - b) Contracting
- 4. Increase capacity to bare
 - a) Increase reserves
 - b) Maintain flexibility
- 5. Accept it

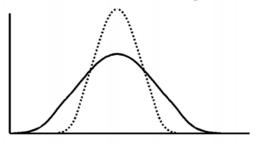


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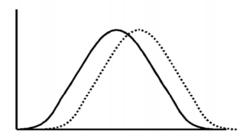


Strategy Impacts

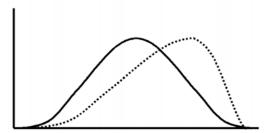
Panel 1: Same Mean, Less Dispersion



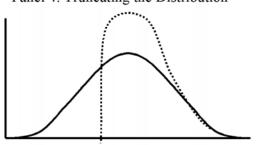
Panel 2: Same Dispersion, Higher Mean



Panel 3: Skewing the distribution



Panel 4: Truncating the Distribution





Farm Service Agency: Noninsured Crop Disaster Assistance Program (NAP)



Catastrophic Loss -

NAP is catastrophic level (50 percent coverage) insurance for crops not insured by Federal Crop Insurance

December 1 - Final Day to sign up for NAP to cover grass hay or grass for grazing.

April 1 - Final Day to sign up for NAP to cover spring-planted crops.

Premium-

\$250 per crop, \$750 per county, and capped at \$1,875 per producer.



Current Federal Insurance Options

Plens Available insured Acres 0.009 40.007 37.430 122.212 2.704 3.998 5.203 40 20.407 8.407 123.045 450.492 ation 1.748		Percent Insured 61% 63% 63% 64% 63% 63% 63% 63% 63% 63% 63% 63% 63% 63		
9,059 47,024 66,007 37,430 122,212 2,704 3,908 5,203 40 28,407 123,045 450,492 450,492 450,492	7,500 75,000 105,000 45,000 45,000 40,000 15,000 30,000 535 31,800 9,700	81% 63% 64% 83% 14% 27% 18% 75% 83% 83%		
96,997 37,430 122,212 2,704 3,596 5,263 400 28,407 123,645 459,492 ation 1,748	105,000 45,000 875,000 40,000 15,000 30,000 535 31,800 9,700	04% 83% 14% 7% 27% 18% 7% 83% 87%		
37,430 122,212 2,704 3,998 5,203 40 29,407 123,045 459,492	45,000 875,000 40,000 15,000 30,000 535 31,800 9,700 149,200	83% 14% 7% 27% 18% 7% 83% 83%		
122,212 2,704 3,908 5,253 4,00 28,407 8,407 123,045 459,492 ation 1,748	875,000 40,000 15,000 30,000 535 31,800 9,700 149,200	14% 7% 27% 18% 7% 83% 87%		
2.704 3.908 5.203 40 29.407 123,045 459,492	40,000 15,000 30,000 535 31,800 9,700 149,200	7% 27% 18% 7% 83% 83% 87%		
3,998 5,253 40 28,407 8,407 123,045 459,492 ation 1,748	15,000 30,000 535 31,800 9,700 149,200	27% 18% 7% 83% 87% 83%		
5.203 40 28,407 8,407 123,045 459,492 ation	30,000 535 31,800 9,700 149,200	18% 7% 83% 87% 83%		
40 28,407 8,407 123,645 459,452 ation 1,748	535 31,800 9,700 149,200	7% 83% 87% 83%		
26,407 8,407 123,645 459,492 1,748	31,800 9,700 149,200	83% 87% 83%		
8,407 123,045 459,492 ation 1,748	9,700 149,200	87% 83%		
123,645 450,492 ation 1,748	149,200	83%		
450,492 ation 1,748				
1,748	1,363,733	3371		
1,748				
gram				
	Total D	ollar Liability		
	70000	0		
		0		
		0		
		3,481,959		
Feeder Cattle (LRP) Lamb (LRP) Swine (LRP, LGM)				
		0		
SR-LITE)		764,035		
		0		
		295,119		
ation Index)		4,898,190		
		35,939,689		
Co	unty Availability			
All Counties				
	Co: Big Horn, Park Countier All Counties All Counties			

	Policies					
Year	Earning Premium	Net Acres Insured	Liability	Gross Premium	Losses	Loss Ratio
1998	2.409	316,337	45,408,251	2,559,039	1,978,874	0.77
1999	2,585	368,293	52,260,660	3,052,725	1,887,216	0.62
2000	2.518	390,286	55,699,761	3,283,065	4,158,921	1.27
2001	2,379	357,930	44,984,749	3,375,808	6,829,348	2.02
2002	2,799	463,016	51,105,089	4,370,774	14,569,144	3.33
2003	2,765	490,461	62,361,648	6,020,804	6,301,359	1.05
2004	2,992	521,765	66,245,558	6,960,893	14,925,461	2.14
2005	3,969	7,490,374	93,066,296	10,543,486	9,524,521	0.90
2006	3,727	7,313,670	89,880,586	10,436,976	21,205,564	2.03
2007	3,633	8,022,532	103,122,528	13,045,530	19,733,159	1.51
2008	3,574	8,021,641	136,924,517	18,460,889	11,524,291	0.62
2009	3,066	4,890,634	127,945,867	17,727,225	13,084,874	0.74
2010	2,783	2,375,239	105,994,714	13,750,556	6,858,437	0.50
2011	2,655	1,557,491	128,770,165	17,168,313	7,830,105	0.46
2012	2.557	1.220.363	140.956.529	16.989.883	17.590.712	1.04

Summary of Policies Sold, by crop

					C	rop Year As	Statistics of: 1/20/201	Corporation for 2013 I4 y State/Crop						
crop	Ins Plan	Pol Sold	Pol Earn Prem	Pol Indem	Units Earn Prem	Units Indem	Net Acres	Liabilities	Total Premium	Subsidy	Cost Share	State Prem Sbsdy Dscnt	Indemnity	Rati
WYOMING														
ADJUSTED GROSS REVENUE-LITE	AGRLT	2	2	0	2	0	0	834,469	29.928	16,460	0	0 0		0. 0
ALFALFA SEED	APH	63	41	2	122	3	5,863	5,524,512	836.040	485.545	0	0 0	124.826	
BARLEY	RP	118	71	43	203	93	9,575	3,450,344	325,764	167,625	0	0 0	637,323	
DATE !	RPHPE	2	1	1	1	1	30	8,379	1,086	597	0	0 0	2.991	
	YP	634	217	65	574	127	39.576	12.573.839	782,741	418.526	0	0 0	761,797	
BARLEY Total	11	754	289	109	778	221	49,181	16.032.562	1,109,591	586,748	0	0 0	1,402,111	
				407		400	40.000			4 755 000				
CORN	RP	512	295	107	668	186	42,823	22,114,295	3,008,813	1,755,832	0	0 0	2,816,266	
	RPHPE	5	5	2	8	2	504	195,221	24,490	14,181	0	0 0	27,081	
AADNI V. I. I	YP	307	155	22	331	30	20,700	10,278,380	938,503	564,351	0	0 0	386,527	
CORN Total		824	455	131	1,007	218	64,027	32,587,896	3,971,806	2,334,364	0	0 0	3,229,874	4 .1
DRY BEANS	APH	731	282	73	644	108	28,871	17,323,674	1,865,184	1,050,325	0	0 0	1,254,740	ا. ٥
DRY PEAS	APH	4	3	1	7	3	403	49,649	10,501	6,194	0	0 0	10.807	7 1.0
FORAGE PRODUCTION	APH	451	386	50	814	78	122,156	12,479,510	2,764,839	1,941,013	0	0 0	586,166	6 .
FORAGE SEEDING	DOL	169	33	3	61	8	4,310	661,473	127,482	76,547	0	0 0	147,750	0 1.1
MILLET	APH	234	21	3	45	7	3,017	292,705	148,440	89,404	0	0 0	31,110	
NURSERY (FG&C)	DOL	1	1	0	15	0	0	77,869	1,799	990	0	0 0	(
DATS	APH	527	43	10	59	12	4,299	465,549	73,900	47.653	0	0 0	46,168	
PASTURE,RANGELAND,FORAGE	VEGAT	224	199	177	511	376	1,349,958	10,457,387	1,754,261	914,430	0	0 0	3,772,018	
POTATOES	APH	25	1	0	1	0	126	283,784	32,614	17,938	0	0 0	(
SOYBEANS	YP	1	0	0	0	0	0	0	0	0	0	0 0	(
SUGAR BEETS	APH	528	184	25	470	37	24,262	22,725,397	1,562,342	845,899	0	0 0	603,656	
SUNFLOWERS	RP	104	23	8	52	21	5,194	808,009	262,106	173,592	0	0 0	219,335	
	RPHPE	4	1	1	2	2	446	51,542	16,289	9,611	0	0 0	8,900	
	YP	196	20	3	50	3	3,343	822,704	168,641	95,704	0	0 0	23,215	
SUNFLOWERS Total		304	44	12	104	26	8,983	1,682,255	447,036	278,907	0	0 0	251,450	. 0
WHEAT	RP	542	335	281	1.171	894	100,857	18.848.625	3,174,243	1,823,704	0	0 0	7,241,248	B 2.
	RPHPE	1	0	0	0	0	Ô	0	0	0	Ö	0 0	(
	YP	400	204	134	484	324	31,266	5.078.608	626.580	365,455	0	0 0	1,974,881	
WHEAT Total		943	539	415	1,655	1,218	132,123	23,927,233	3,800,823	2,189,159	0	0 0	9,216,129	
WYOMING Total		5,785	2,523	1,011	6,295	2,315	1,797,579	145,405,924	18,536,586	10,881,576	0	0 0	20,676,805	5 1.
Grand Total		5.785	2,523	1,011	6,295	2,315	1,797,579	145,405,924	18,536,586	10,881,576	0	0 0	20.676.805	5 1.





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Research on: Alfalfa Crop Insurance Policy



Forage Seeding





Forage Seeding

Montana, North Dakota, South Dakota, Wyoming

Crop Insured

Crop insured
Forage seeding is a dollar plan of insurance that
offers the producer the opportunity to select one of
several dollar amounts of insurance per acre.
The crop insured will be premnial affalfa, perennial
grasses, or a mixture thereof in which you have a
share that is spring planted during the current crop
year to establish a normal stand intended for harvest.
The policy does not cover any forage that is:

in e poice; ones not cover any forage that is:
grown with the intent to be grazued;
grazued;
grazued at any time during the insurance period;
interplanted with another crope except barley; flax,
outs or wheat. (Barley, outs, or wheat must be
seeded at a rate of 16 pounds per acre or less and
also must be out for hay no later than milk stage.
Flax must be seeded at a rate of 16 pounds per
acre or less).

acre or less.)
Fall seeded forage may be insurable by written agreement if requested no later than August 31. Insurable types include affaffa and affaffa grass mixture (determined by the number of live alfaffa plants per square foot equal to or exceeding the normal stant requirements shown below for the corresponding counties):

Normal Stand (Alfalfa plants per square foot) <u>Wyoming</u>: Albany, Big Horn, Carbon, Fremont, Hot Springs, Natrona, Park, Sublette, Sweetwater, Teton, Uinta, Washakie

Irrigated	Irrigated	Nonirr.	Nonirr.
Alfalfa	Alf/Grass	Alfalfa	Alt/Grass
8.0	3.3		

Normal Stand (Alfalfa plants per square foot)

North Dakotz: Divide, Williams, Mountrail, and all cou and west of the Missouri River South Dakotz: All counties west of the Missouri River

Wyoming: Sheridan, Johnson, Campbell Crook, Weston, Con Nichterer, Platte Godon, Laramie, and Lincoln counties

Irrigated	Irrigated	Nonirr.	Nonirr.
Alfalfa	Alt/Grass	Alfalfa	Alt/Grass
8.0	3.3	6.4	2.7

Normal Stand (Alfalfa plants per square foot)
North Dakota: Pembina, Walsh, Grand Forks, Steele, Traill, Cass,
Ramons, Sargent, Richland counties
South Dakota: Roborts, Grant, Hamlin, Deuel, Kingsbury,
Brockings, Lake, Moody, McCook, Mirnechah, Hatchisson,
Towner, Lacota, Beat Harms, Vardon Cert. Trainten countries

rumer, Lincom	, ison nomme,	ankion, Ciay,	Onion countries
Irrigated Alfalfa	Irrigated Alt/Grass	Nonirr. Alfalfa	Nonirr. AltiGrass
12.0	5.1	10.0	4.3

Normal Stand (Alfalfa plants per square foot) <u>North Dalota</u>; All counties between and including Burke, Ward, McLean, Burleigh, Emmons, Cavalier, Ranney, Nelson, Griggs, Barnes, LaMoure, Dickey counties

South Dakota: Marshall, Day, Codington, Clark, Beadle, Miner, Hanson, Douglas, Charles Mix and counties west to the Missouri

Irrigated	Irrigated	Nonirr.	Nonirr.
Alfalfa	Alf/Grass	Alfalfa	AltiGrass
12.0	4.0	8.0	2.7

Insurance Period

Insurance **begins** when the forage is seeded and **ends** the earliest of:

- the earliest of:

 (1) total destruction of the forage crop;

 (2) final adjustment of a loss;

 (3) shandsoment of the forage crop;

 (4) first harvest after August 5 (MT, WY) or August

 15 (MS, SD)— you may harvest as often as
 practical on or before that date;

 (5) date grazing commences on the forage crop; or

 (6) May 21.

otal Production to Count*

470 amount of insurance - \$2870 product
600 indemnity

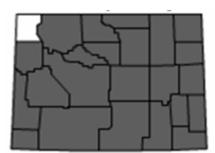
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im Subsidy remium Share	50 67 33	55 64 36	60 64 36	65 59	70 59	75 55



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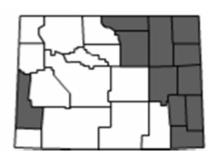
Forage Seeding Irrigated

Insured Counties for Irrigated Forage Seeding, MPCI (Dollar Value) Coverage



Forage Seeding Non-Irrigated

Insured Counties for Non-Irrigated Forage Seeding, **MPCI (Dollar Value)** Coverage



Insurability under MPCI for Forage Seeding:

- Insurable Crop
 - Spring-seeded perennial alfalfa, perennial grasses, or a mixture
- Insurable Types
 - Alfalfa and alfalfa/grass mixtures as determined by the number of live alfalfa plants per square foot
- Insurability Requirements
 - Must be spring planted during the current year to establish a normal stand intended for harvest
 - Must not be grown with the intent to be grazed
 - New stand may not be grazed any time during the insurance period
 - The new stand may not be inter-planted with another crop except barley, flax, oats or wheat



RMA Crop Production and Revenue Insurance Product

Insurability under MPCI for Forage Seeding

- Percent of Insurance
 - 67% to 100% of the reference dollar amount
 - CAT is available at a 55% of the referenced dollar amount
- Coverage Levels
 - The level of coverage is influenced by the selection of the amount of insurance but includes the 50, 55, 60, 65, 70 and 75% coverage levels
 - CAT is available at 50% coverage level
- Reference Dollar Amounts
 - Dollar amounts for <u>irrigated forage</u> seeding are announced annually...........\$349 for 2014
 - Dollar amounts for <u>non-irrigated forage</u> seeding are announced annually...... \$181 for 2014





The Insurance Period

- The insurance period begins at the seeding date of the forage crop
- The insurance period ends at the earliest date of any of the following causes:
 - Total destruction of the insured crop
 - First harvest after August 5 of the year of establishment
 - Final adjustment of a loss
 - Abandonment of the insured crop



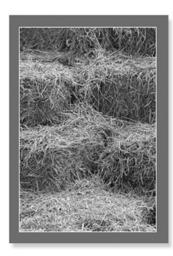


RMA Crop Production and Revenue Insurance Produc

Forage Seeding Insurance Normal stands of forage seeding, by type and practice

Alfalfa P	lants Per Squ	are Foot
Туре	Irrigated	Nonirrigated
Alfalfa	8.0	6.4
Alfalfa/Grass	3.3	2.7

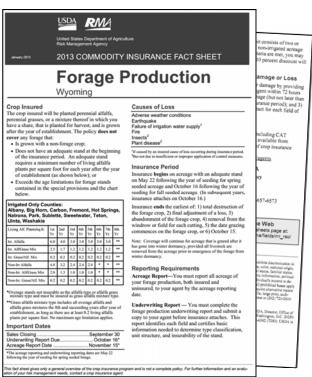
- Per acre Indemnity for Forage Seeding
- Indemnity = Total Dollar Coverage –
 Production to Count
- If the stand is between 55% and 75%, there is a 50% reduction in the per acre indemnity





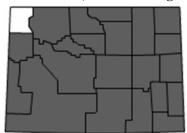
Forage Production





Alfalfa Hay Irrigated

Insured Counties for Irrigated Forage Production, MPCI Coverage*

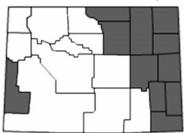


Lincoln, Sheridan, Johnson, Campbell, Crook, Weston, Converse, Niobrara, Platte, Goshen and Laramie counties have coverage for irrigated and nonirrigated production.

All other counties have coverage for only irrigated production

Alfalfa Hay Non-irrigated

Insured Counties for Non-irrigated Forage Production, MPCI Coverage*



Lincoln, Sheridan, Johnson, Campbell, Crook, Weston, Converse, Niobrara, Platte, Goshen and Laramie counties have coverage for irrigated and nonirrigated production.

All other counties have coverage for only irrigated production



RMA Crop Production and Revenue Insurance Produ

MPCI-Forage Production Insurance

- Insurable Crop
 - Forage planted for harvest consisting of planted perennial alfalfa, perennial grasses, or a mixture

• Insurability Requirements

- The forage must not be grown with a nonforage crop
- The forage is first insurable as forage for production in the year after establishment;
 and
- The forage has an adequate stand of living alfalfa plants





MPCI-Forage Production Insurance

- Insurable Types
 - Alfalfa, Alfalfa/grass and Grass/alfalfa Mixtures
- Insurable Practices
 - Both irrigated and non-irrigated forage for harvest are insurable
- Coverage Level
 - 50, 55, 60, 65, 70 and 75% of APH
- Price Election
 - 55% to 100% of maximum price election





RMA Crop Production and Revenue Insurance Produc

MPCI-Forage Production Insurance

- Maximum price elections (Established Prices) are announced annually for Alfalfa, Alfalfa Grass Mixture, and Grass Alfalfa Mixture
- Irrigated production\$210/Ton for 2014
- Non-irrigated production\$210/Ton for 2014
- CAT is available at the 50% coverage level and 55% of the maximum price election
- Insured Period Beginning
 - May 22nd following the year of seeding for springseeded acreage
 - October 16th following the year of seeding for fallseeding acreage
 - In subsequent years October 16th





MPCI-Forage Production Insurance

- Insured Period ends at the earliest date when one of the following occurs:
 - Total destruction of the forage crop
 - Final adjustment for a loss
 - Abandonment of the crop
 - Removal from the windrow for each cutting
 - Date grazing commences
- Note: Coverage will continue for acreage that is grazed after it has gone into winter dormancy provided all livestock are removed from the acreage prior to emergence of the forage from winter dormancy.
 - October 15th





MPCI-Forage Production Insurance Forage Types Definitions

Production and Revenue Insurance Pr

- Three types of forage:
 - Alfalfa
 - Alfalfa/grass mixtures
 - Grass/alfalfa mixtures
- Mixtures are distinguished by the number of living alfalfa plants per square foot
- Insurable after the year-of-stand establishment





MPCI-Forage Production Insurance Forage Types Definitions

- Irrigated alfalfa and alfalfa/grass are "overaged" after the 7th year
- Non-irrigated alfalfa and alfalfa/grass are overaged after the 5th year and must be insured as grass/alfalfa
- Grass/alfalfa includes all overage alfalfa and alfalfa/grass
 - At least 0.2 living alfalfa plants per square foot
 - No age limitation





RMA Crop Production and Revenue Insurance Produc

Minimum Number of Living Alfalfa Plants per Square Foot, By Type

Forage/Practice	1st	2nd	3rd	4th	5th	6th	7th	8th
Porage/Practice	Year							
Alfalfa Irrigated	6.0	4.0	3.0	3.0	3.0	3.0	3.0	**
Alfalfa/Grass	2.5	1.7	1.2	1.2	1.2	1.2	1.2	**
Irrigated								
Grass/Alfalfa	0.2	0.2	0.2	0.2	0.2	0.2	0.2	**
Irrigated								
Alfalfa Non-	4.8	3.2	2.4	2.4	2.4	*	*	**
Irrigated								
Alfalfa/Grass	2.0	1.3	1.0	1.0	1.0	*	*	**
Non-Irrigated								
Grass/Alfalfa	0.2	0.2	0.2	0.2	0.2	0.2	0.2	**
Non-Irrigated								

APH Yields for Forage Production

- Yields, acreage, and production records must be written and verifiable
- For forage production that is sold, forage sales records must be:
 - Generated in the same time period with harvesting
 - Substantiated by marketing records of a buyer such as settlement sheets, certified weight tage, or load receipts
 - Include the buyer's name, net weight, type and delivery date
- For forage production that is stored, determination of production must be based on weights or measurements and conversion factors consistent with procedures used for loss adjustment





RMA Crop Production and Revenue Insurance Produc

APH Yields for Forage Productions

- Weight determination of forage
 - Large round bales: If the automated baler is acceptable, multiply the number of bales by the average weight of at least two bales and multiply by the average bale weight
 - Small bales: Weight 3 to 4 bales per insurable unit per harvest
 - Loose hay: Consult your RMA or a loss adjustor
- Forage production fed:
 - After forage is fed without being sold, feed records must specify the number of head and type of livestock
 - Records must include estimated weights and number of days fed
 - Feed records are only acceptable for the current crop year





APH Yields for Forage Production

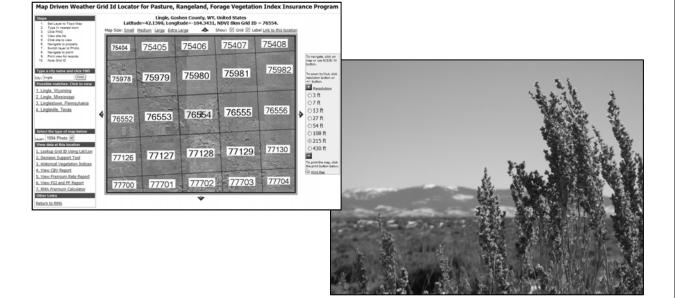
RMA suggestions:

- Weigh bales on a certified scale
- Take photographs of stack yards to verify bale count
- Keep records by insured unit, type, and cutting





Pasture, Rangeland, Forage Vegetation Index



The Purpose of PRF

Agricultural production is financially risky.

Forage losses from natural hazards, especially drought, are frequent.

PRF insurance is a group risk plan that can help forage and livestock producers manage for potential production losses.

These plans are now available to producers in selected counties and states.













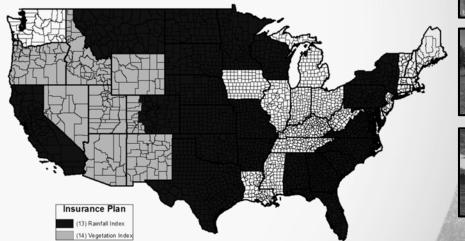
Introduction to PRF Pilot Insurance Program

PRF Program Availability for 2014

The PRF program is a pilot program, and is only available in selected states and counties.

Note: The most current coverage information is available on the USDA-RMA website.

2013 and Succeeding Crop Years - Pasture, Rangeland, Forage Availability















Indexing

What is an index?

An index is a number derived from a series of observations which is used as an indicator or measure.

PRF insurance uses indexing to measure and compare conditions that affect forage production in specific areas over time.

Each index uses information gathered from a number of sources and locations.













Introduction to PRF Pilot Insurance Program

Vegetation Index

In other selected states, a vegetation index is available. This index uses satellite data to measure vegetation greenness in a 4.8 by 4.8 mile grid. Losses are calculated based on deviation from the vegetation index for the grid during particular time intervals.

Greenness is used to estimate plant conditions for pasture, range, and hay production.



















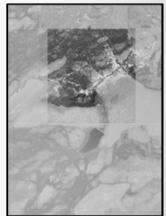




Vegetation Index Data Source

The PRF Vegetation Index uses data from the U.S. Geological Survey Earth Resources Observation and Science data center.

- Estimates plant condition in approximately 4.8 x 4.8 mile grids.
- This index is not a direct measure of your production. It is a measure of the average vegetation index patterns for the grid.
- The healthier the plants in a given grid, the higher the greenness index will be.













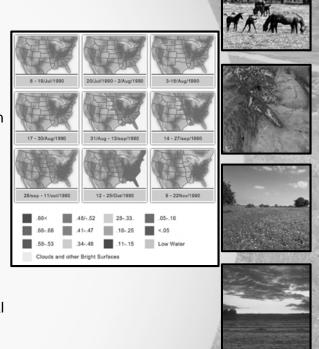
Introduction to PRF Pilot Insurance Program

How Vegetation Data is Measured and Used

The data is called the Normalized Difference Vegetation Index (NDVI).

- NDVI is a measurement of the density of photosynthetic biomass on the ground.
- Results are obtained from the processing of satellite imagery.

Loss payments are based on the difference between the normal NDVI data (expected grid index) and the actual grid index experienced during the months insured.





Index Intervals

Producers must select the appropriate time frames or <u>index intervals</u> to apply for PRF insurance coverage. It's important to select intervals when forage and pasture production is critical for your operation, and to follow guidelines for your index, county, and grid.













Introduction to PRF Pilot Insurance Program

Grid ID Number

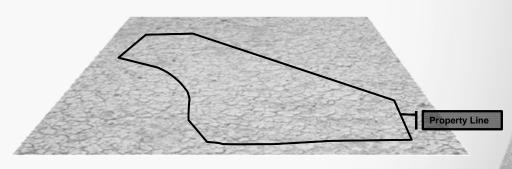
Producers must also select a reference point on the grid that best represents the location of the grazinglands or haylands they want to insure.





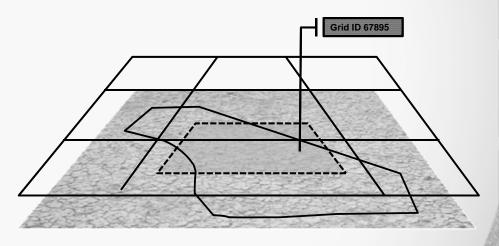




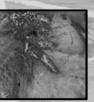


Grid ID Number

Each grid segment is identified by a grid ID. Rainfall index and vegetation index programs use different grid sizes, so the grid ID will be different depending on which plan is available.















Introduction to PRF Pilot Insurance Program

Expected Index Values

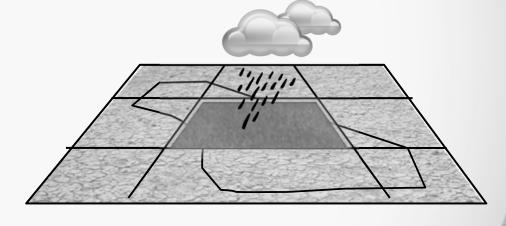
Historical data for each grid is used to determine the expected index value for either precipitation or vegetation greenness.









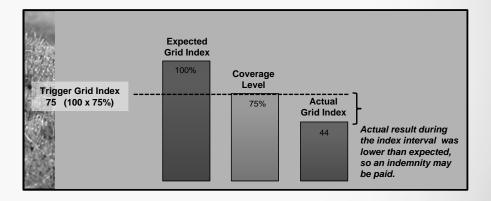






Using Grid Indices

The expected grid index is compared to the <u>final grid index</u>. Producers may receive an indemnity if the actual final index falls below the <u>trigger grid index</u>, which is adjusted based on the <u>coverage level</u>.













Introduction to PRF Pilot Insurance Program

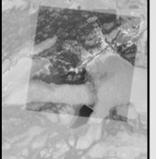
Key Characteristics of PRF

Coverage is based on the experience of the entire grid area—not individual losses.

PRF does not take into consideration the exact situation of the producer. It is possible that ...

- Grid conditions might have been normal, while a specific property was experiencing drought. A producer might not receive a payment, even if he or she incurred losses.
- Final grid indices may have been less than expected, while a producer may not have suffered losses. A payment might be awarded even though there was no loss of production.















Property that Extends Beyond the Grid Area

- A producer can base his or her insurance coverage on a single grid ID or on multiple grid IDs.
- Non-contiguous acres must be insured using the same coverage parameters if they are in the same grid.
- If the non-contiguous acres are in different grids, the coverage parameters can be different.











The rules are complex. Producers should contact an insurance agent familiar with PRF if they have questions.



Introduction to PRF Pilot Insurance Program

Important Dates

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Flexible Risk Management Strategies

The PRF insurance program is one more option for farmers and ranchers to manage potential losses.

Agricultural operations can choose PRF insurance:

- · As a standalone product.
- In combination with other risk management strategies or insurance products.

Producers considering PRF should work closely with an insurance agent to understand their options.



Multi Peril Crop Insurance

LGM

Livestock Gross Margin

AGR-Lite

LRP

Livestock Risk Protection

NAP

Non-Insured CROP DISASTER Assistance Program









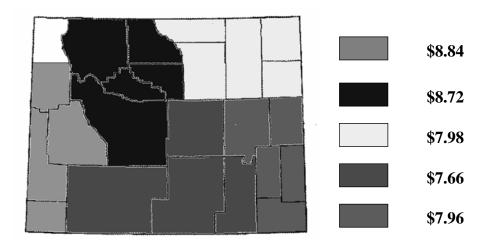






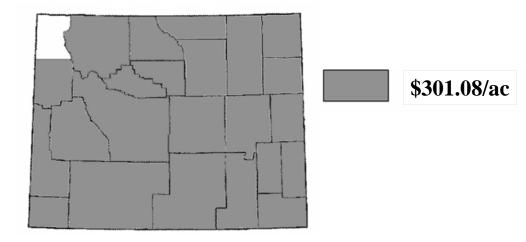
Rangeland Insurance - PRF Vegetation Index Insurance Progra

County Base Values- Grazingland 2014 Crop Year



Rangeland Insurance - PRF Vegetation Index Insurance Program

County Base Value- Hayland 2014 Crop Year





Using the Grid Locator

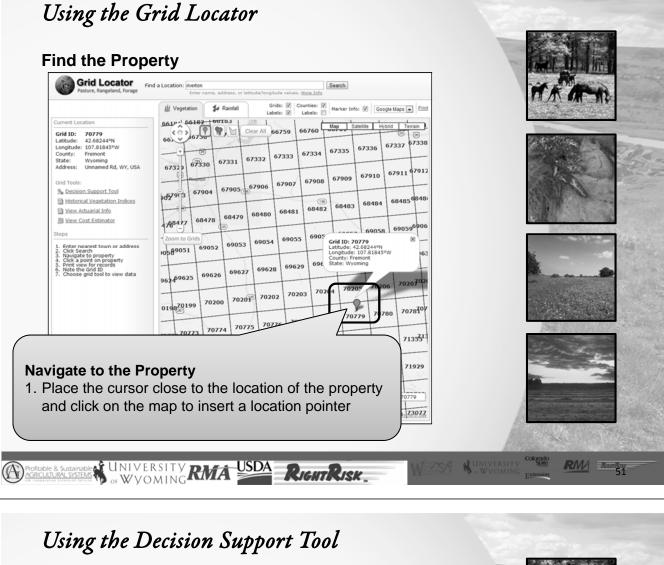
Enter a Location to Find

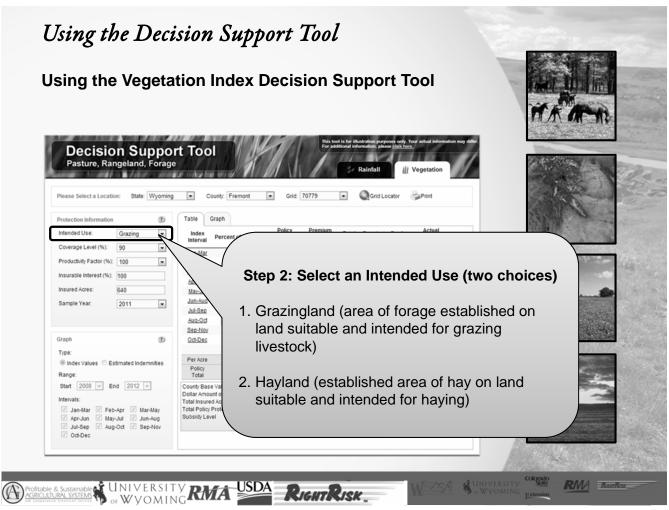


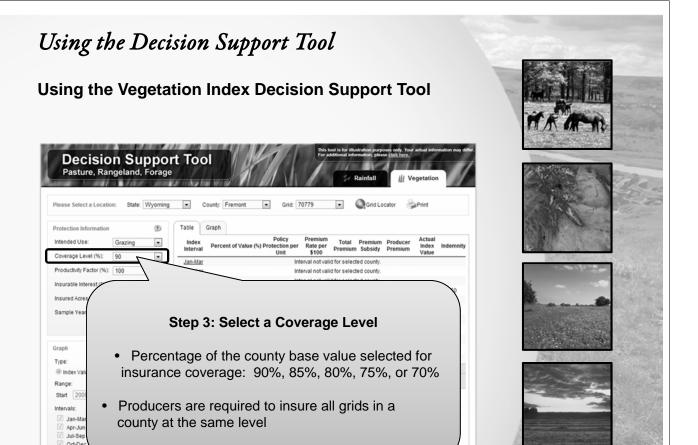












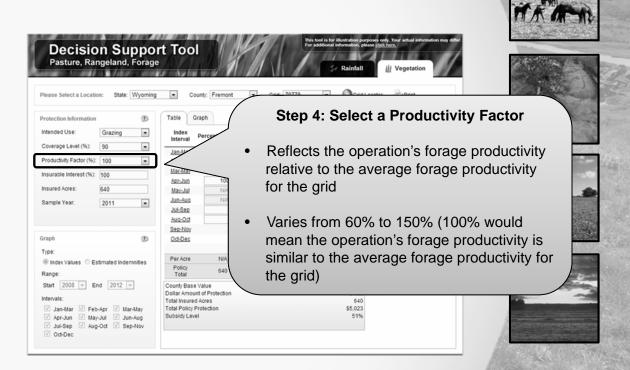
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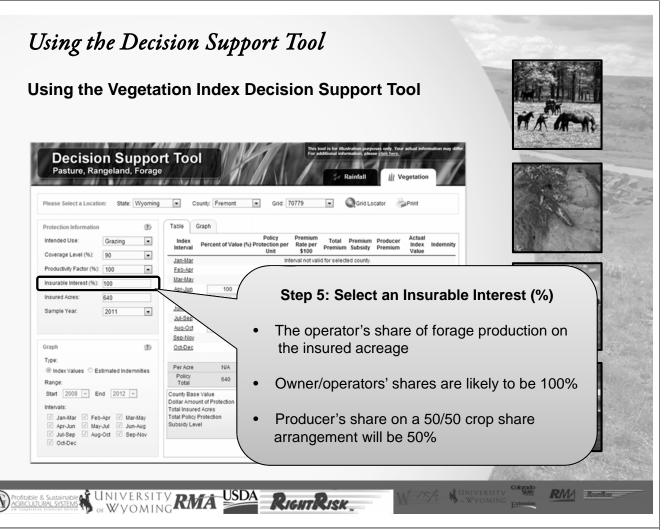


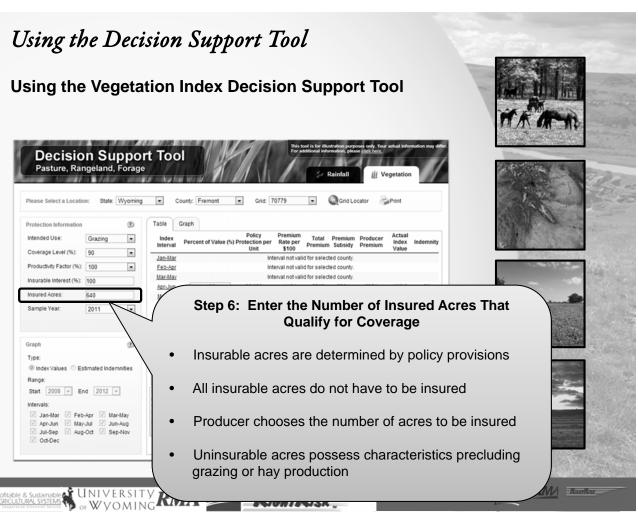
Using the Decision Support Tool

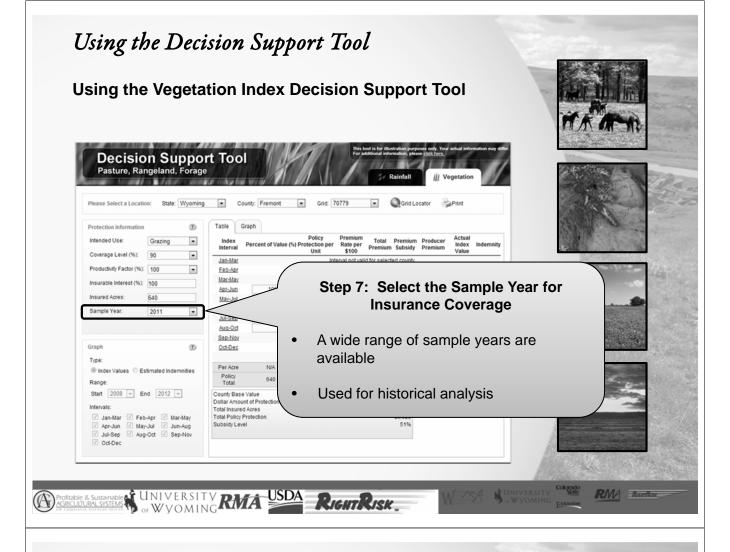
Using the Vegetation Index Decision Support Tool





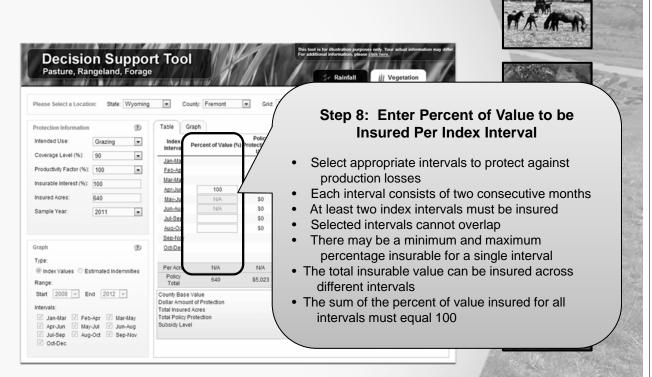






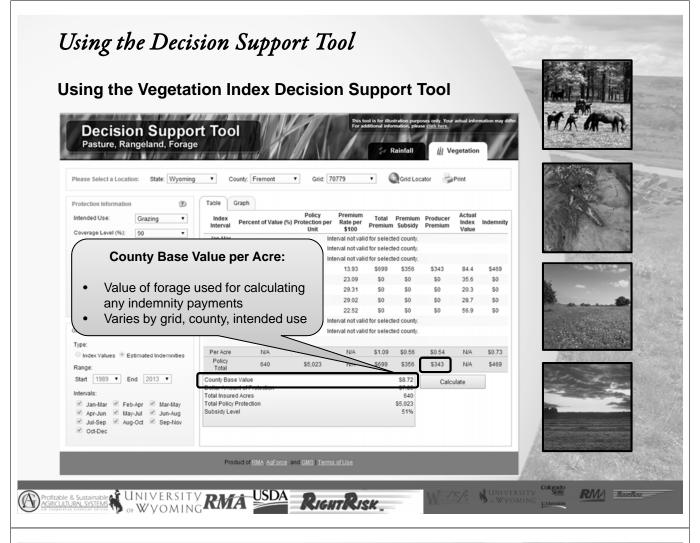
Using the Decision Support Tool

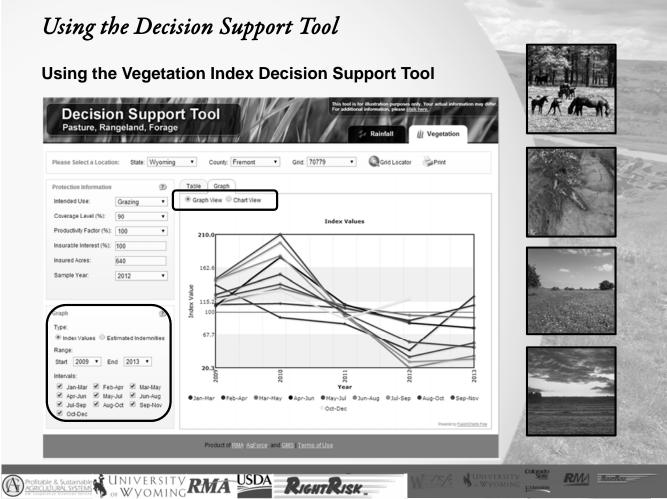
Using the Vegetation Index Decision Support Tool

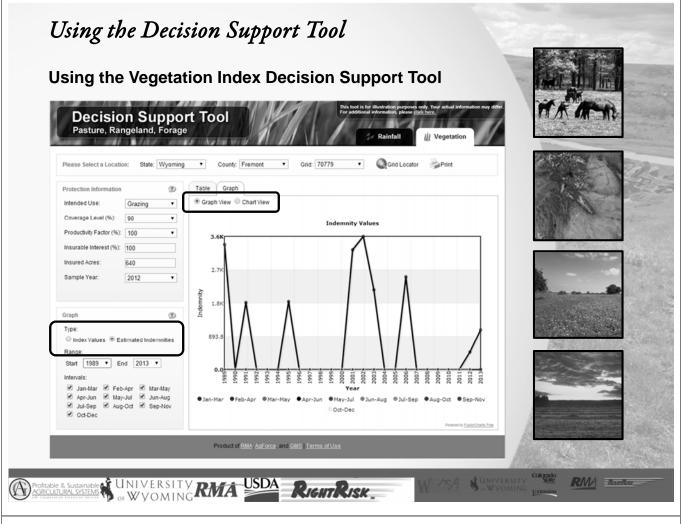


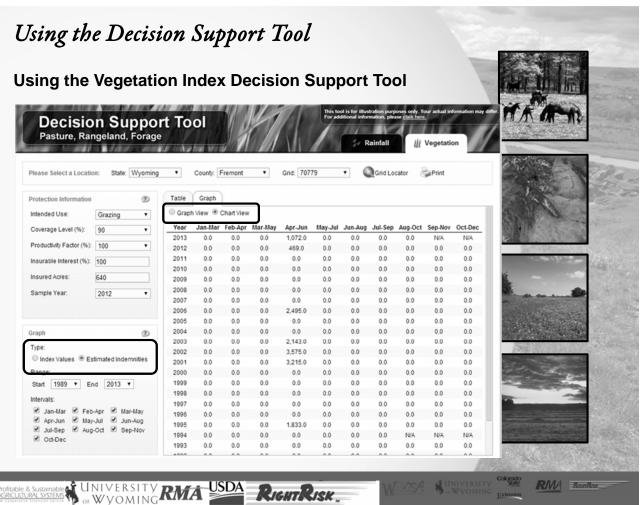
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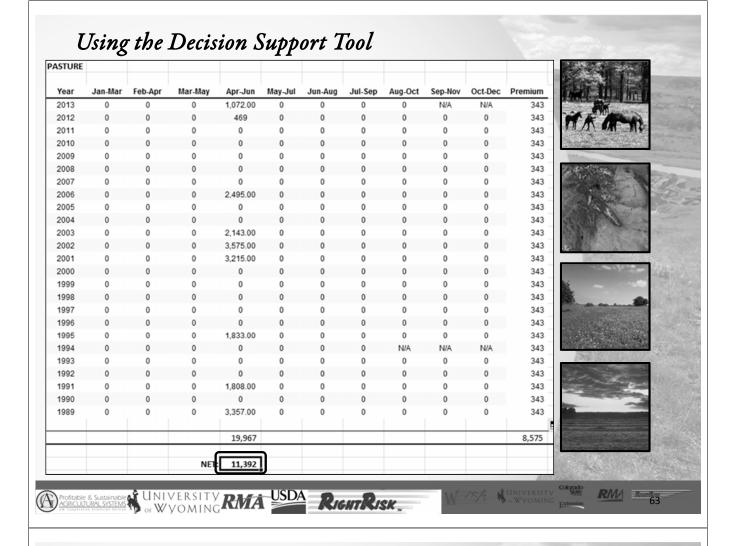






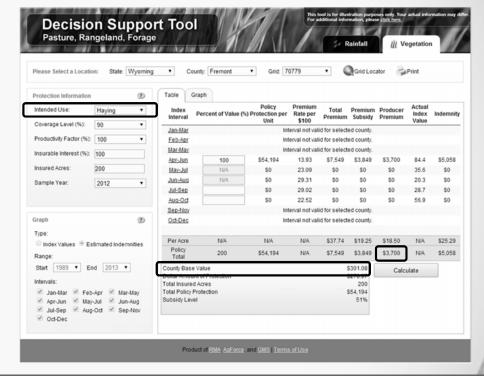






Using the Decision Support Tool

Using the Vegetation Index Decision Support Tool











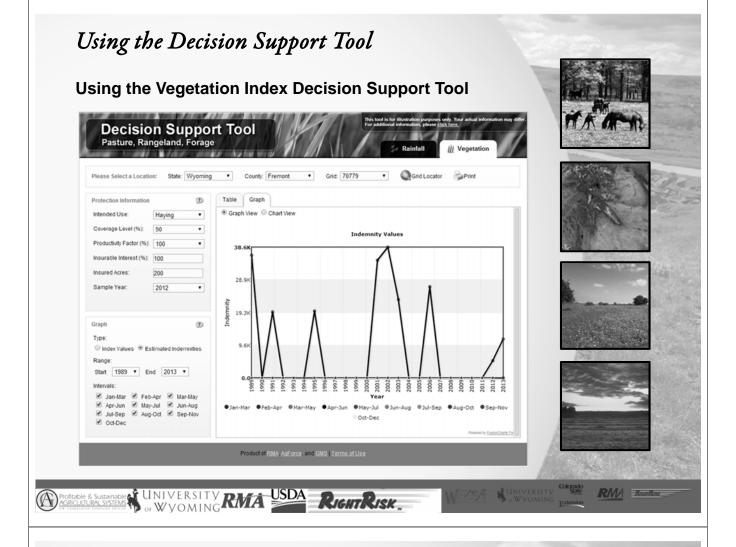




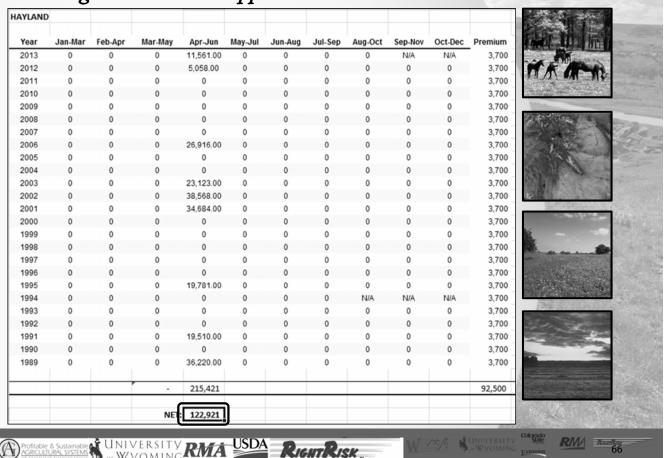


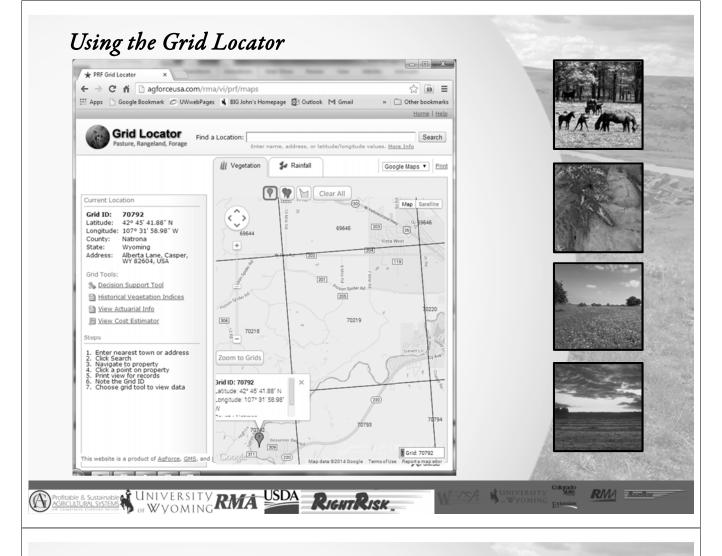






Using the Decision Support Tool

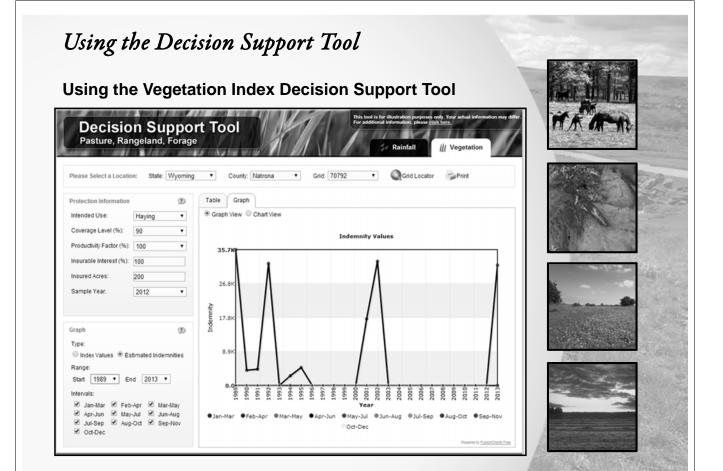




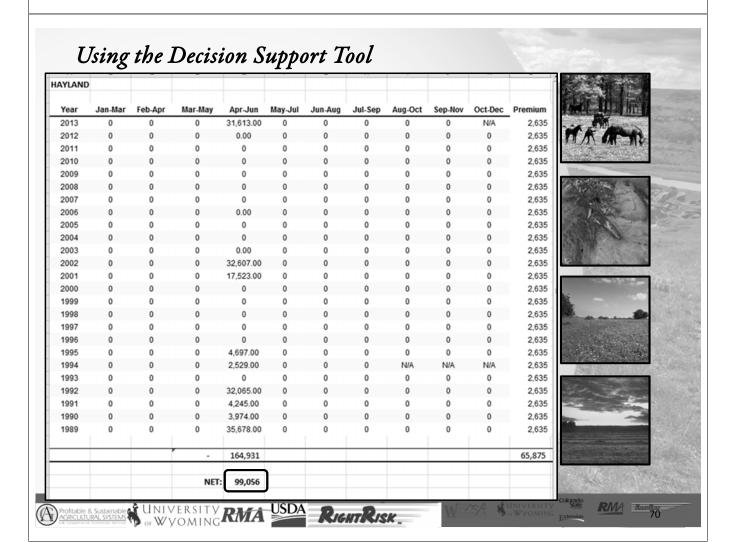


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RIGHTRISK

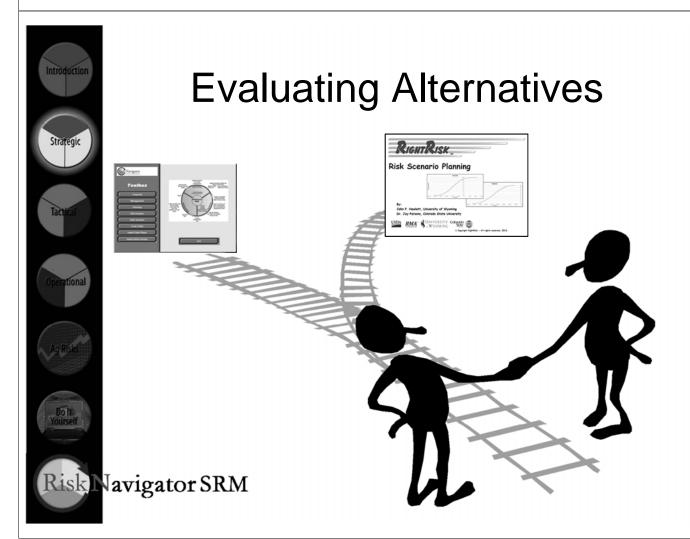
UNIVERSITY **RMA**

Rangeland Insurance - PRF Vegetation Index Insurance Program: Summary

- 2007 first year for pilot program in Wyoming
- Sales closing date is **November 15**
- This program covers <u>grazingland</u> and <u>hay</u> production in all Wyoming counties
- This program is driven off of a vegetation index calculated for several intervals during the crop year (index intervals) that indicate the relative amount of greenness on the ground as a substitute (or proxy variable) for forage production









Fertilizer - How Much Can You Afford to Apply?

Fertilizer prices are closely linked to fluctuations in fuel costs. Fossil fuels are heavily utilized in the manufacture and shipping of commercial fertilizer products. As a result, when fuel prices rise fertilizer users must carefully consider.

- · Whether or not to fertilize the crop,
- · What is the most economical level of fertilizer application, and
- · What is the cheapest source of macro (and micro) nutrients.

Crop Considered for Fertilization (choose one):

The worksheets at left are designed to help find the most economical level of fertilizer for the crop listed. Examples have been constructed for crops where commercial fertilizers are commonly applied. Some things to keep in mind as you use these tools:

NITROGEN FERTILIZATION

Native Meadow Hay

Improved Grass Hay Grass-Alfalfa Hay

Dryland Grass Pasture

Dryland Crested Wheatgrass

Garrison Creeping Foxtail

Corn for Silage

Irrigated Corn for Grain

Malting Barley

Wheat

Dryland Winter Wheat

Sugar Beets-Root Yield

- Fertilizer quantities must be entered in pounds of crop-available nutrient per acre. This will not be the same as pounds of fertilizer applied per acre. For example: 1 ton (2,000 lb.) of 46-0-0 fertilizer contains 46% nitrogen or 920 lbs. of nitrogen per ton of fertilizer.
- The first entry for fertilizer pounds applied will be zero pounds applied per acre and should have a corresponding yield value. This represents the crop yield with no additional fertilizer applied.
- Zero (0) should be entered for any fertilizer or yield values where additional data is not available.
- Fertilizer costs must be entered on a per pound of available nutrient applied basis. As per above, this will not be the same as cost per pound of fertilizer

For example: 46-0-0 fertilizer at \$180 ton yields 920 lb. of nitrogen at 19.57 cents/lb.

· Crop harvest costs should include all costs associated with harvesting an additional unit of crop. For example, swath, bale, and stack for a crop of hav Results Generated for:

Alfalfa Hay ~

he information you provided in the input form. In ertilizer as long as added return less added cost is

Added	Costs		Added Return	
Pound]	Harvest [\$34.19 Ton]	Added Return [\$95.00 Ton]	Less Added Costs	
19 6			1-1-01	
1.20	\$15.04	\$41.80	\$5.56	
1.20	\$10.94	\$30.40	\$-1.74	
1.20	\$6.84	\$19.00	\$-9.04	
1.20	\$2.74	\$7.60	\$-16.34	

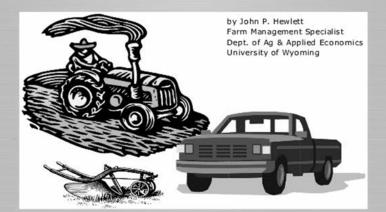




http://RightRisk.org/Wyoming



Wyoming Machinery Cost Calculation Program



Begin

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http://RightRisk.org/Wyoming



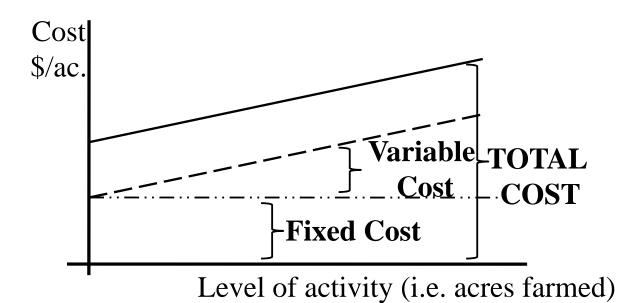






Estimating Machinery Costs

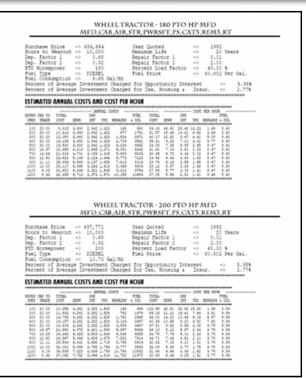
- OWNERSHIP or FIXED COSTS
- OPERATING or VARIABLE COSTS



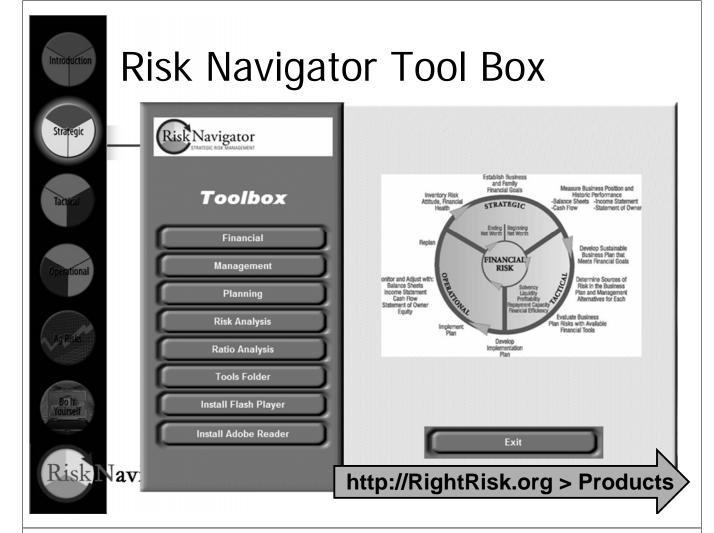


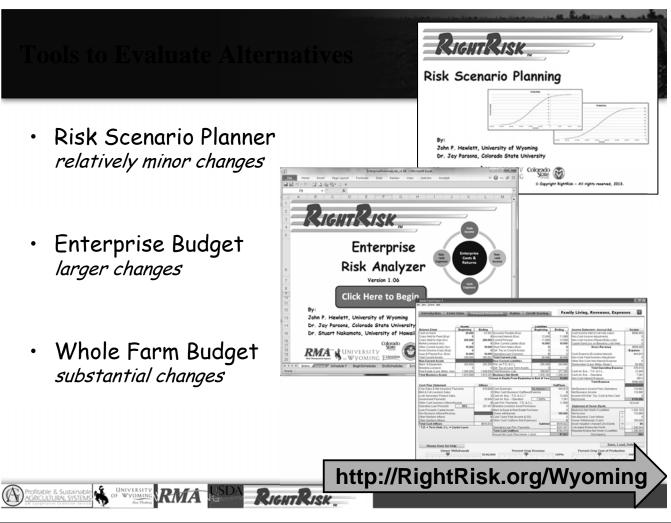
Estimating Machinery Costs

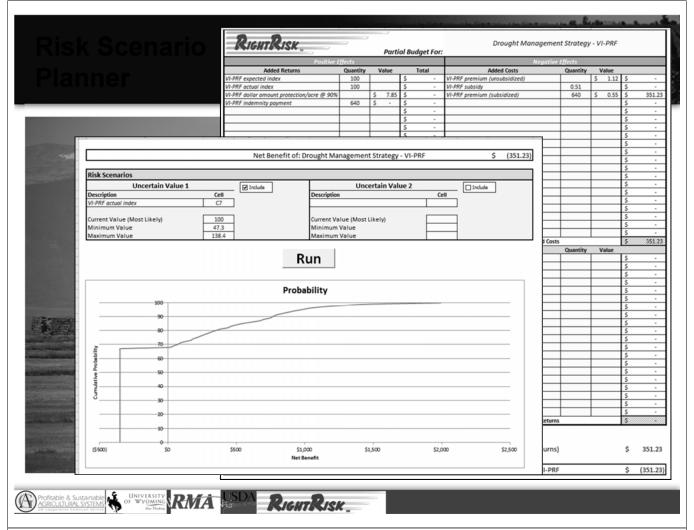


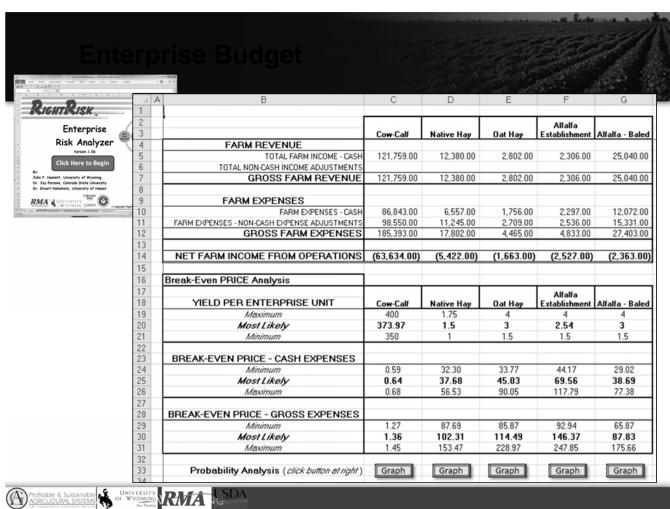




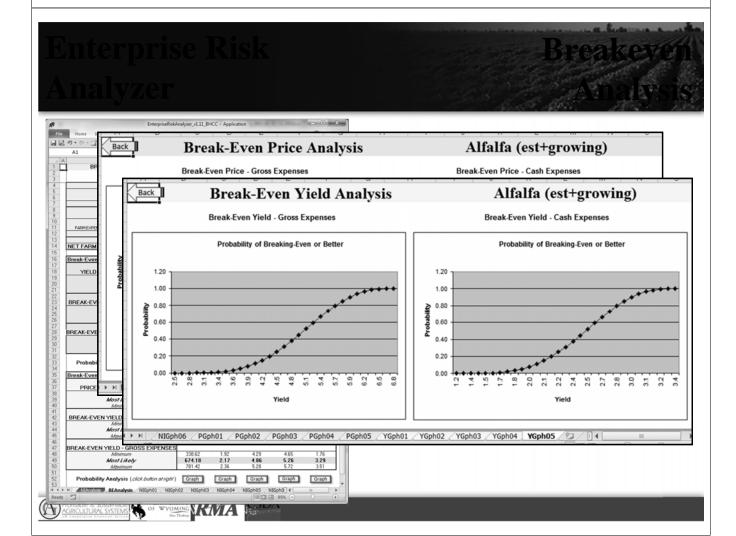








EnterpriseRiskAnalyzer_v1.11_BHCC - Application Data Review 0 0 - p X View Developer Add-Ins ModelRisk ■ K 9 - C1 - C1 C C1 C1 C1 - C1 = A1 _ - X EnterpriseRiskAnalyzer_v1.11_BHCC - Application ♥ **()** - - - ■ X Insert Page Layout ■ M 50 - C1 - C1 C2 C2 C3 - C1 - C G K L M Back Whole FARM Net Income Analysis 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 FARM Gross Revenue - Gross Expenses FARM Cash Income - Cash Expenses FARM E NET Probability of Net Revenue Listed Probability of Net Cash Income Listed 0.090 0.090 Ne 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0.080 0.080 0.070 0.070 0.060 Lopapilik 0.050 0.040 0.030 0.060 0.050 **2** 0.040 0.030 0.020 0.000 2 Net Income (\$1,000) NIAnalysis / BEAnalysis / NIGph01 / NIGph02 / NIGph03 / NIGph04 / NIGph05 | NIGph06 / PGph01 / PGph02 / PGph01 | C UNIVERSITY OF WYOMING RNA USDA



Whole Farm Budget

Introduction Enter	Data Fin	ancial Stat	Fami	ily Living, Revenues, Expense	es 🔽		
	Assets			Liabilities			
Balance Sheet	Beginning	Ending		Beginning	Ending	Income Statement - Accrual Adi.	Income
Cash on Hand	25.000	19.520	Accounts Pavable (Exp)	0	0	Cash Income (Net of cull lystk sales)	\$554.721
Crops Held for Feed (Exp)	0	0	Accrued Interest (Exp)	28.759	25.304	Non-Cash Income Adjustments	(
Crops Held for Sale (Inc)	100.000	100.000	Current Principal	57.207	60.662	Non-Cash Income (Raised Brdg Lystk)	17.500
Market Livestock (Inc)	0	0	Other Current Liability (Exp)	0	0	Capital Gain/Loss on Breeding Lystk (Net)	140
Other Current Assets (Inc)	0	0	Short Term Notes (Exp)	0	0	Gross Revenue	\$572.36
Invest Growing Crops (Exp)	0	0	Def. Tax on Current Assets	0	0		Expense
Supp.& Prepaid Exp. (Exp)	15.000	15.000	Operating Loan Carryover	0	0	Cash Expense (Excluding Interest)	425.84
Total Current Assets	140.000	134.520	Total Current Liab.	85.966	85.966	Non-Cash Feed Inventory Adjustment	
Non-Current Assets			Non-Current Liabilities			Other Non-Cash Non-Interest Expense	
Mach. & Equipment	600.000	570.000	Prin. on T.D. & C.L.	465.178	404.517	Depreciation (Land. Bldos. Equip.)	65.50
Breeding Livestock	169.500	171.000	Def. Tax on Long Term Assets	0	0	Total Operating Expense	491.34
Real Estate (Land, Bldgs, Imc	3.190.000		Total Business Liab.	551.144	490.483	Cash Int. Exp T.D. & C.L.	28.75
Total Business Assets	4.099.500	4.036.520	Business Net Worth	3.548.356	3.546.037	Cash Int. Exp Operating	8.02
		C	hange in Equity From Beginning	to End of Year	(2.319)	Non-Cash Interest Expense	(3.455
						Total Expense	\$524.67
Cash Flow Statement		Inflows			OutFlows		
Crop Sales & Net Insurance Pa	avments	445.050	Cash Expenses	No Interest >	425.848	Net Business Income From Operations	47.68
Mrkt & Cull Livestock Sales		108.703	Other Cash Business Outlflow:	s/Expense	0	Net Business Income	47.68
Lvstk Secondary Product Sales	ŝ	0	Cash Int. Exp T.D. & C.L.*		28.759	Income+SS+Def. TaxCash & Non-Cash	
Government Payments		18.608	Cash Int. Exp Operating	7.000%	8.027	Net Income	\$47.68
Other Cash business Inflows/	ncome	0	Loan Prin. Payments - T.D. & C	i.L.	57.207		Accrual
Operating Loan Proceeds	70%	229.353	Breeding Livestock Asset Purchases		8.000	Statement of Owner Equity	
Loan Proceeds Capital Assets		0	Mach & Equip & Real Estate Purchase		0	Beainnina Net Worth (Cost/Mrkt)	3.548.35
Non-Business Inflows/Revenu	ie		Owner withdrawals		50.000	Net Income +	47.68
Other Nonfarm Inflows		0	Cash Taxes Paid (Income & SS		0	Non-Business Cash Inflows +	
Other Nonfarm Inflows		0	Other Cash Outflows (Not Expe	enses)	0	Owner Withdrawals (Cash) -	50.00
Total Cash Inflows		\$801,714		Subtotal	\$577,841	Asset Valuation Change/Cont./Distrib. +/-	\$
* T.D. = Term Debt. C.L. = Cap	oital Lease		Operating Loan Prin. Payments	3	\$229.353	Calculated Ending Net Worth =	3.546.03
			Total Cash Outflows		\$807.194	Reported Ending Net Worth (Cost/Mrkt)	3.546.037
			Annual Net Cash Flow (never <	zero)	19.520	Discrepancy	SI
						Save, Load	, Delete
Owner Wit	thdrawals		Percent Crop	Revenue	_	Percent Crop Cost of Production	_
пиниминици	шриприн	\$50,000	· · · · · · · · · · · · · · · · · · ·	1 1 1 1	100%	1 T	100%
Nonfarm I	nflows #1		Percent Livesto	ock Revenue	1000	Percent Livestock Cost of Producti	on 100%
Tarparparparp		\$0	1 1 1 1 T	1 1 1 1	100%	1 1	100%
Nonfarm I			Percent Operating Ex	•		Percent Government Payments	7
Anchodonton	nlindind	111 0	juntuuhuutuutu	<u>e</u> lmilmilm	70%	1 Y	100%
	Reset	Prin	t Cash Income Togg	gle Off/On	Deferred	Taxes Off/On Income Tax	Off/On



ASRICULTURAL SYSTEMS OF WYOMING RMA USDA

RightRisk Newsletter

