Right Fon

24

# Dairy **R**isk **M**anagement

The USDA's Risk Management Agency and the University of California Cooperative Extension county invites you to join us for Dairy Risk Management a risk management workshop that will help your farm thrive in today's challenging environment. The workshop is designed to help you gain a better understanding of how to manage risk on your farm operation.



**Welcome** Ramiro Lobo, Farm Advisor, UC Cooperative Extension

California Dairy Risk and Implications for the Industry

Dr. Leslie (Bees) Butler, Dairy Extension Specialist, UC Cooperative Extension



**D**airy Herd Health under Drought Conditions

Nyles Peterson, Dairy Advisor, UC Cooperative Extension

Farm Bill Dairy Margin Program and LGM for Dairy

Dr. Jay Parsons, Risk Management Specialist, Colorado State University

g Risk-5: Learn more about tools for managing risk and evaluating your risk management strategies John Hewlett, Farm/Ranch Management Specialist, University of Wyoming

Program #2

California.eRightRisk.com  $oldsymbol{\mathcal{U}}$ se risk manag

alternative strategies for your farm, including: Partial Budgets, the Risk Scenario Planner, the Enterprise Risk Analyzer, RDFinancial, more . . .

Dr. Jay Parsons and John Hewlett



RIGHT RISK.





# Livestock Gross Margin Insurance



Risk Management for Dairy Producers

Jay Parsons
John Hewlett





University (California Agriculture and Natural Resource



I

# What is Livestock Gross Margin-Dairy?

- LGM-Dairy is a form of insurance designed to provide protection to dairy farmers against:
  - rising feed costs
  - -falling milk prices
  - or both
  - bundled option insurance

USDA (Indeed States) Department of April Column	A Risk Management Agency Fact Sheet
RM/	Livestock Gross Margin
Program Auf Number 2001	Dairy Cattle

Livestock Gross Margin (LGM) LGM-Dairy Cartle (LGM) Dairy) provides protection against loss of gross margin (market value of milk mains feed conts) on milk produced from dany cows. LGM-Dairy uses the Chicago Mercanil-Exchange Group finness prices for core, soybecani Exchange Group finness prices for core, soybecani gross margin and the actual gross margin.

Producer premium subsidy is available for the LGM-Dairy plan of insurance and is determined by the deductible amount chosen by the producer. All administrative and operating subsidies are paid by the Federal Coop Insurance Corporation.

The indemnity at the end of the 11-month insuranperiod is the difference, if positive, between the gromurgin guarantee and the actual gross margin. The price the producer convers at the local market is no used in these calculations.

LGM is available to any producer who owns dairy cattle in the 42 continuous states.

Mills. Coverage Availability
Only mills sold for commercial or private sale
primarily inheaded for final human consumption for
dany can't field in any of the slightle intens in displic
for LOM Dany coverage. There is no minimum
number of humbed-weight is producer can instrue.
However, the maximum smoont of milk that can be
mixed in 24 million pounds per crop year.

Producers can select deductible levels between \$0 as \$2.00 per handredweight of milk in \$0.10 increment Sales. Clouing

To enroll, producers must sign-up on the last bus Friday of the month, submitting an application w target marketing report for the milk and corn and soybean meal equivalents to be imused. Prices
Prices for LOM Dairy are based on simple averages
of finances contract daily settlement prices, and are not
based on the prices the producer receives at the

Insurance Months
The insurance period contains the II mouths
following islad clotting. For example, the insurance
period for the January 29 sales closing date contained
the months of February through December. Both of
the insurance
coverage beginn in the second month of the insurance
months of the coverage needs for this example is the

LGM Selling Period LGM Dairy is sold on the bast business Friday of each mooth. The sales period begins as soon as PAAreceives the data submitted by the course and developed of LGM-Dairy after the close of markets or the last day of the psice discovery period. The sales period ends at 50 pm. CST the following evening. If expected milk and feed prices are not available on the FAAA We have LGM Dairy will not be effected.

Annual Premium
LGM premium period on producers' marketing
plan, deductable level, fintures and price volatilary.
Premium billing dates are determined by the target
marketing report and will be the fart business day
the month following the last month that a producer
reports their insured marketings in the target

Cause of Loss
LOM Dairy covers the difference between the groot
margin guarantee and the schuld groot margin. LOM
Dairy does not imme appaint dutry cartle electh lost
unexpected docreases in malk production, or
unexpected increases in feed use. Indemnities to be
paid will equal the difference between the groot
margin guarantee and the actual total groots margin if
the missiance prairied.

Fish Management Agency

Program Aid Number



# What is LGM-Dairy?

- LGM-Dairy insurance covers losses in gross margin from milk production
- Gross margin is calculated as the difference between the expected market value of class III milk and the associated feed costs (corn and soybean meal price).





RIGHTRISK

3

# What is LGM-Dairy?

- LGM-Dairy coverage is based on target marketings of milk and estimated feed use
- Target marketings (expected milk production) insured under LGM-Dairy is flexible, allowing a farm to purchase only the level of coverage desired



# How Does LGM-Dairy Work?

- Prices for LGM-Dairy are based off of simple averages from the Chicago Mercantile Exchange (CME) Group futures contract daily settlement prices
  - Class III milk
  - Corn
  - Soybean Meal
- Local market price received by producer is not used.



RIGHTRISK

# How Does LGM-Dairy Work?

- To enroll, producers must sign up on the last business Friday of the month.
- LGM-Dairy insurance period is limited to the 11 months following the sales closing date.
- Coverage begins the second month of the insured period (10 months of coverage).



# **Expected Target Marketings**

- Expected target marketings are an estimate of the hundredweight of milk to be produced each month.
- Upper limit of 240,000 cwt. per crop year.
- Customizable to your production and insurance needs

Jun	Jul	Aug	Sep	Oct '14	Nov	Dec	Jan	Feb	Mar	Apr	May			
'14	'14	'14	'14		'14	'14	'15	'15	'15	'15	'15			
		1	2	3	4	5	6	7	8	9	10			
Purchase at End of Month	No Cover- age		Insurance Contract Period											
Cove		10000	10000	10000	15000	15000	10000	10000	15000	10000	10000			
Mon		cwt.	cwt.	cwt.	cwt.	cwt.	cwt.	cwt.	cwt.	cwt.	cwt.			

RIGHTRISK

# **Expected Feed Costs**

- An estimate of the monthly feed costs needed to produce the expected target marketings.
- Expressed in corn and soybean meal equivalents.
- Producers have the option of either estimating their own or using the default values.
  - Note: Producer estimates must fall within an acceptable range.

Jun '14	Jul '14	Aug '14	Sep '14	Oct '14	Nov '14	Dec '14	Jan '15	Feb '15	Mar '15	Apr '15	May '15
Covered Months		10000 cwt.	10000 cwt.	10000 cwt.	15000 cwt.	15000 cwt.	10000 cwt.	10000 cwt.	15000 cwt.	10000 cwt.	10000 cwt.
Coi	'n	140 tons	140 tons	140 tons	210 tons	210 tons	140 tons	140 tons	210 tons	140 tons	140 tons
Soybear	n Meal	20 tons	20 tons	20 tons	30 tons	30 tons	20 tons	20 tons	30 tons	20 tons	20 tons

JSDA RIVIA

Agriculture and Natural Resource

RIGHTRISK

# Expected Total Gross Margin

- The difference between the Expected Market Value of Milk and the Expected Feed Costs.
- Uses CME futures contracts prices.

Jun '14	Jul '14	Aug '14	Sep '14	Oct '14	Nov '14	Dec '14	Jan '15	Feb '15	Mar '15	Apr '15	May '15
				s							
Milk (\$/	'cwt.)	19.95	19.90	19.69	19.18	18.69	18.27	18.10	18.07	18.03	18.06
Corn (\$	5/bu.)	4.77	4.76	4.76	4.76	4.76	4.79	4.82	4.85	4.88	4.91
Soybean (\$/toi		460.56	426.12	397.42	395.54	393.65	393.01	393.40	393.78	393.62	393.45

USDA RIVE Agriculture and Natural Resource

RIGHTRISK

# **Expected Total Gross Margin**

• The difference between the Expected Market Value of Milk and the Expected Feed Costs.

Jun '14	Jul '14	Aug '14	Sep '14	Oct '14	Nov '14	Dec '14	Jan '15	Feb '15	Mar '15	Apr '15	May '15				
	Expected Values (\$)														
Milk Ro	evenue	199,497	198,996	196,895	287,693	280,342	182,694	180,993	271,040	180,293	180,592				
Feed	Cost	33,061	32,321	31,747	47,564	47,508	31,809	31,966	48,185	32,270	32,417				
Gross M	largins	166,436	166,674	165,148	240,128	232,834	150,885	149,027	222,854	148,022	148,175				

• Expected Total Gross Margin = \$1,790,184.



RIGHTRISK

### Deductible Level

- The deductible level is the amount of loss not covered by the insurance contract.
- Producers can select deductible levels between \$0 and \$2.00 per hundredweight of milk in \$0.10 increments.
- Higher Deductible Level →
  - Lower Premium
  - You are assuming more of the risk.
  - Less likely to receive an indemnity
- Higher Deductible Level → Higher the premium subsidy
  - Subsidies range from 18% to 50%
  - \$0 deductible level  $\rightarrow$  18% premium subsidy
  - \$2 deductible level→ 50% premium subsidy



RIGHTRISK

11

# Gross Margin Guarantee

- The Gross Margin Guarantee is the Expected Total Gross Margin minus the product of the Deductible Level times the Total Expected Target Marketings.
- In our example,
  - Expected Total Gross Margin = \$1,790,184
  - Total Expected Target Marketings = 115,000 cwt.
- Assume a \$2.00 Deductible Level
  - Gross Margin Guarantee = \$1,790,184-(2\*115,000) = \$1,560,184
  - -\$1,560,184/115,000 cwt. = \$13.57/cwt.
- Assume a \$0 Deductible Level
  - Gross Margin Guarantee = \$1,790,184
  - -\$1,790,184/115,000 cwt. = \$15.57/cwt.



# How Does LGM-Dairy Work?

- Indemnity payments are made when the actual gross margin falls below the gross margin guarantee
- The actual gross margin is calculated based on expected target marketings each month of coverage and actual prices
- Actual prices are determined by Average Futures Settle Prices from 1st, 2nd, and 3rd days prior to last trading day for each contract







### **Annual Premium**

- Premiums are due at the first business day of the month following the last month of reported insured marketings
- Premiums depend on each producer's insurance plan (expected marketings, coverage selected, deductible level, expected futures prices and price volatility, etc.)
- Premiums are calculated using 5,000 simulated payout profiles
- Total Premiums = Average of simulated payouts + 3%
- In our example, \$0 Deductible Level
  - Gross Margin Guarantee = \$1,790,184
  - Average of expected payouts = \$96,852
  - Total Premium = 96,852 \* 1.03 = \$99,758
  - Premium Subsidy = 99,758 \* 0.18 = \$17,956
  - Producer Premium = 99,758 17,856 = \$81,801 = \$0.71/cwt.

Implied Floor on Net Gross Margin = \$1,708,383

= \$14.86/cwt.

# How Does LGM-Dairy Work?

- In our example, \$2.00 Deductible Level

  - Average of expected payouts = \$19,297
  - $Total \ Premium = 19,297 * 1.03 = $19,876$
  - Premium Subsidy = 19,876 \* 0.50 = \$9,938

- Producer Premium = 19,876 - 9,938 = \$9,938 = \$0.09/cwt.

Implied Floor on Net Gross Margin = \$1,550,246

= \$13.48/cwt.

• Premiums are due at the first business day of the month following the last month of reported insured marketings.





RIGHTRISK

15

# LGM-Dairy Summary

- LGM-Dairy is flexible insurance program for dairy producers to protect against falling milk prices and/or rising feed prices.
  - Customizable to your production and insurance needs
  - Need not insure all months or all production
- LGM-Dairy can be thought of as Bundled Option Insurance.
  - Similar to buying a combination of put and call options.
  - Put Option on Class III milk to protect against falling milk prices.
  - Call Options on corn and soybean meal to protect against rising feed prices.

RIGHTRISK

# California: LGM-Dairy Policy Data - 2012

### 2012

		Pol		Units							-		Producer
	Pol	Earn	Pol	Earn	Units	Number		Total			Loss	Producer	Loss
County	Sold	Prem	Indem	Prem	Indem	of Head	Liabilities	Premium	Subsidy	Indemnity	Ratio	Premium	Ratio
Fresno	5	4	1	4	1	811,000	14,085,330	360,061	177,778	10,342	0.03	182,283	0.06
Kern	2	2	0	2	0	420,000	7,308,000	159,764	79,883	0	0	79,881	0
Kings	3	2	0	2	0	314,980	5,484,851	130,194	62,493	0	0	67,701	0
Madera	1	1	0	1	0	120,000	2,083,200	83,004	39,842	0	0	43,162	0
Merced	8	8	4	8	4	897,280	15,600,833	354,070	173,200	144,993	0.41	180,870	0.80
Sacramento	1	0	0	0	0	0	0	0	0	0	0	0	0
San Joaquin	1	1	0	1	0	110,000	1,909,600	53,453	25,657	0	0	27,796	0
Sonoma	2	2	1	2	1	71,000	1,232,560	31,027	14,893	1,464	0.05	16,134	0.09
Stanislaus	11	10	4	10	4	1,321,278	22,944,001	632,866	298,940	57,838	0.09	333,926	0.17
Sutter	1	1	0	1	0	80,000	1,388,800	38,434	18,448	0	0	19,986	0
Tulare	18	17	2	17	2	2,267,736	39,461,922	1,118,362	475,394	12,659	0.01	642,968	0.02
Grand Total:	53	48	12	48	12	6,413,274	111,499,097	2,961,235	1,366,528	227,296	0.08	1,594,707	0.14





17

# California: LGM-Dairy Policy Data - 2013

#### 2013

							2013						
		Pol		Units									Producer
	Pol	Earn	Pol	Earn	Units	Number		Total			Loss	Producer	Loss
County	Sold	Prem	Indem	Prem	Indem	of Head	Liabilities	Premium	Subsidy	Indemnity	Ratio	Premium	Ratio
Alameda	1	0	0	0	0	0	0	0	0	0	0	0	0
Fresno	1	1	1	1	1	57,000	1,159,380	25,333	12,160	4,892	0.19	13,173	0.37
Kings	4	4	4	4	4	900,000	18,306,000	317,624	158,813	399,094	1.26	158,811	2.51
Merced	5	4	1	4	1	445,600	8,568,008	172,955	72,062	1,490	0.01	100,893	0.01
Sacramento	1	1	1	5	1	162,000	3,017,540	92,449	43,557	304	0	48,892	0.01
San Joaquin	2	2	0	2	0	118,542	2,158,197	43,673	19,663	0	0	24,010	0
Sonoma	1	1	0	1	0	15,000	305,100	12,480	5,990	0	0	6,490	0
Stanislaus	12	11	3	30	5	1,577,744	30,998,712	968,666	383,554	43,360	0.04	585,112	0.07
Tulare	12	8	3	13	4	1,112,000	21,534,516	588,608	248,021	84,634	0.14	340,587	0.25
Grand Total:	39	32	13	60	16	4,387,886	86,047,453	2,221,788	943,820	533,774	0.24	1,277,968	0.42

# California: LGM-Dairy Policy Data – 2014

### 2014

		Pol		Units				ľ			-1		Producer
	Pol	Earn	Pol	Earn	Units	Number		Total			Loss	Producer	Loss
County	Sold	Prem	Indem	Prem	Indem	of Head	Liabilities	Premium	Subsidy	Indemnity	Ratio	Premium	Ratio
Fresno	1	1	0	1	0	60,000	1,037,400	12,992	6,236	0	0	6,756	0
Kings	6	6	0	7	0	826,300	14,348,733	291,959	79,718	0	0	212,241	0
Merced	5	4	0	4	0	639,360	12,904,486	372,752	119,369	0	0	253,383	0
San Joaquin	1	1	0	1	0	22,800	492,252	15,878	6,034	0	0	9,844	0
Stanislaus	8	8	0	13	0	599,011	12,448,123	285,711	123,103	0	0	162,608	0
Tulare	15	6	0	8	0	795,000	15,374,950	214,063	87,947	0	0	126,116	0
Grand Total:	36	26	0	34	0	2,942,471	56,605,944	1,193,355	422,407	0	0	770,948	0





19

## How do I get it?

- Federally-subsidized crop insurance products managed by RMA such as LGM-Dairy are sold by private crop insurance agents.
- The RMA
   website has a link
   to an Agent
   Locator tool on
   their home page.









Program Aid Number 202 A Risk Management Agency Fact Sheet

# Livestock Gross Margin

Dairy Cattle
July 2011

### **Livestock Gross Margin (LGM)**

LGM-Dairy Cattle (LGM Dairy) provides protection against loss of gross margin (market value of milk minus feed costs) on milk produced from dairy cows. LGM-Dairy uses the Chicago Mercantile Exchange Group futures prices for corn, soybean meal, and class III milk to determine the expected gross margin and the actual gross margin.

Producer **premium subsidy** is available for the LGM-Dairy plan of insurance and is determined by the deductible amount chosen by the producer. All administrative and operating subsidies are paid by the Federal Crop Insurance Corporation.

The **indemnity** at the end of the 11-month insurance period is the difference, if positive, between the gross margin guarantee and the actual gross margin. The price the producer receives at the local market is not used in these calculations.

### **Availability**

LGM is available to any producer who owns dairy cattle in the 48 contiguous states.

### Milk Coverage Availability

Only milk sold for commercial or private sale primarily intended for final human consumption from dairy cattle fed in any of the eligible states is eligible for LGM Dairy coverage. There is no minimum number of hundredweights a producer can insure. However, the maximum amount of milk that can be insured is 24 million pounds per crop year.

### Coverage Levels/Deductibles

Producers can select deductible levels between \$0 and \$2.00 per hundredweight of milk in \$0.10 increments.

### Sales Closing

To enroll, producers must sign-up on the last business Friday of the month, submitting an application with a target marketing report for the milk and corn and soybean meal equivalents to be insured.

### **Prices**

Prices for LGM Dairy are based on simple averages of futures contract daily settlement prices, and are **not** based on the prices the producer receives at the market.

### **Insurance Months**

The insurance period contains the 11 months following sales closing. For example, the insurance period for the January 29 sales closing date contains the months of February through December. However, coverage begins in the second month of the insurance period, so the coverage period for this example is the months of March through December.

### **LGM Selling Period**

LGM Dairy is sold on the **last business Friday** of each month. The sales period begins as soon as RMA reviews the data submitted by the owner and developer of LGM-Dairy after the close of markets on the last day of the price discovery period. The sales period ends at 8:00 p.m. CST the following evening. If expected milk and feed prices are not available on the RMA Web site, LGM Dairy will not be offered for sale for that insurance period.

### **Annual Premium**

LGM premiums depend on producers' marketing plan, deductible level, futures and price volatility. Premium billing dates are determined by the target marketing report and will be the first business day of the month following the last month that a producer reports their insured marketings in the target marketings report.

### Cause of Loss

LGM Dairy covers the difference between the gross margin guarantee and the actual gross margin. LGM Dairy does **not** insure against dairy cattle death loss, unexpected decreases in milk production, or unexpected increases in feed use. Indemnities to be paid will equal the difference between the gross margin guarantee and the actual total gross margin for the insurance period.

Risk Management Agency Program Aid Number

### LGM Dairy Advantages

**Convenience:** Producers can sign up for LGM Dairy 12 times per year and insure all their milk production they expect to market over a rolling 11-month insurance period.

**Customization:** Can be tailored to any size farm. **Bundled Option Insurance:** LGM Dairy is similar to buying both a call option to limit higher feed costs and a put option to set a floor on milk prices.

### What LGM Dairy Does Not Insure

- Risk of dairy cattle death
- Unexpected production (milk) losses
- Unexpected increase in feed use
- Anticipated or multiple-year declines in milk prices
- Anticipated or multiple year increases in feed costs

### **Definitions**

**Actual Marketings** The total amount of milk sold by you in each month of the insurance period and for which you have proof of sale. Actual marketings are used to verify ownership of milk and determine approved target marketings.

**Deductible** The portion of the expected gross margin that you elect not to insure. Per cwt deductible amounts range from zero to \$2.00 per cwt in 10 cent increments. The deductible equals the selected per cwt deductible times the sum of target marketings across all months of the insurance period.

**Gross Margin Guarantee** The gross margin guarantee for an insurance period is the expected total gross margin for an insurance period minus the deductible.

Marketing Report A report submitted by you on our form showing for each month your actual marketings for that month of milk insured under the policy. The marketing report must be accompanied by copies of sales receipts that provide records of the actual marketings shown on the marketing report.

**Target Marketings** Your determination as to the number of cwt of milk you elect to insure in each month during the insurance period.

**Target Marketings Report** A report submitted by you on our form showing for each month your target marketings for that month.

### For More Information

LGM Coverage Prices, Rates and Actual Ending Values: <a href="http://www3.rma.usda.gov/apps/livestock\_reports/">http://www3.rma.usda.gov/apps/livestock\_reports/</a>
Cost Estimator (Premium Calculator):

http://ewebapp.rma.usda.gov/apps/costestimator/

### Where to Purchase

All multi-peril crop insurance policies are available from private insurance agents. A list of livestock insurance agents is on the RMA Web site at:

http://www3.rma.usda.gov/tools/agents/

### **Download Copies from the Web**

Visit our online publications/fact sheets page at: <a href="http://www.rma.usda.gov/pubs/rme/fctsht.html">http://www.rma.usda.gov/pubs/rme/fctsht.html</a>

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination write to: USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

### Livestock Gross Margin - Dairy: Margin Insurance for California Dairy Farmers Protecting Against Falling Milk Prices & Rising Feed Costs

By John P. Hewlett- University of Wyoming and Dr. Jay Parsons- Colorado State University

Information Sheet April, 2013 #IS-04-01

Livestock Gross Margin - Dairy (LGM-Dairy) is a form of insurance designed to provide protection to dairy farmers against rising feed costs and falling milk prices. Gross margin in this sense refers to the difference between the market value of milk and the cost of feed. LGM-Dairy uses futures markets to establish both milk and feed prices. Currently, LGM-Dairy is available to dairy producers in any county in California.

### How Does It Work?

LGM-Dairy provides protection from the risk of falling milk prices, rising feed costs, or both. Milk produced for human consumption by dairy cattle in California and the other 47 contiguous states is eligible for coverage. LGM -Dairy insurance covers losses in gross margin from milk production. Futures markets for corn and soybean meal

are used to establish feed costs. Futures prices for milk are used to estimate the market value of milk produced. Gross margin is calculated as the difference between the expected market value of milk and the associated feed costs. Local prices are not used in gross margin calculations. In this way, LGM-Diary may be used as a risk management tool to provide protection against declining margins from milk production.

LGM-Dairy insurance coverage is based upon target marketings of milk production (hundredweight of production per month) and estimated feed use (tons of soybean meal and corn). Estimates of feed use are normally established from prior farm production



records (default values are also possible). In addition, the portion of target marketings (expected milk production) insured under LGM-Dairy is flexible, allowing a farm to purchase only the level of coverage desired.

LGM-Dairy does not provide protection against death loss of dairy cattle, unexpected declines in milk production or unanticipated increases in feed use.



LGM-Dairy insurance may be available for purchase the last business Friday of every month. The insurance period is limited to 11 months; coverage beginning the second month of the insured period. As a result, LGM-Dairy insurance is available only 12 times each calendar year.

Subsidies for LGM-Dairy coverage are available, covering a portion of the cost of an LGM-Dairy policy. These subsidies range from 18 to 50 percent of the total premium, depending on the level of deductible selected (subsidy levels increase with higher deductibles). Deductible levels are also adjustable, ranging from \$0 to \$2 per hundredweight of milk in \$0.10 increments. Premiums are due at the end of the coverage period and are estimated based on the level of LGM-Dairy insurance purchased.

Indemnity payments are made at the end of the 11-month insurance period when the actual gross margin falls below the gross margin guarantee. The

level of indemnity payment is based on the level of insurance deductible selected.

### **Example Farm**

Assume a California farm purchases LGM-Dairy insurance for a dairy located in San Bernardino County with milk production of 1,500 hundredweight per month. Using the default feed equivalents (21.0 corn equivalents and 3.0 soybean equivalents per hundredweight of milk) and the quoted prices for milk and feed for each of the 11 months of coverage, gives an expected gross margin of \$180,951. The farm elects to purchase LGM-Dairy with the \$0 deductible option with an associated subsidy of 18 percent, making the producer premium \$9,535 including all subsidies and administrative fees over the 11 months. The correspondTable 1. California Farm Example

Item	Calculation	Amount
Expected Target Marketings	Total of: (1,500 hundredweight/month X monthly milk futures price) for each month of the 11-month insurance period	\$219,780
Expected Feed Costs	Total of: (21 corn equivalents*/month X monthly corn futures price + 3 soybean meal equivalents*/month X monthly soybean futures price) for each month of the 11-month insurance period	\$38,829
Expected Total Gross Margin	Expected Target Marketings – Expected Feed Costs	\$180,951
Deductible Level		\$0.00
Gross Margin Guarantee	Expected Total Gross Margin – (Total Target Marketings X Deductible)	\$180,951
Producer Premium	\$11,652 - \$2,117	\$9,535
Actual Gross Margin		\$150,000
Estimated Indemnity Payment	\$180,951 - \$150,000	\$30,951

<sup>\*</sup> The producer has the option of estimating their own values for these feed equivalents.

ing gross margin guarantee amounts to \$180,951 after factoring in the deductible level.

Now assume that the dairy generated an actual gross margin of \$150,000 over the insured period (due to declining milk



price, increasing feed prices, or both). An indemnity payment would be due because the actual gross margin fell below the gross margin guarantee. The indemnity payment would be calculated as the difference of the gross margin guarantee and the actual gross margin or \$30,951 in this case (\$180,951 – \$150,000). Note that where a positive deductible is selected, this will correspondingly reduce any indemnity payments as less than 100 percent of the gross margin is covered by LGM-Dairy insurance.

### **Deductible**

Let's examine further the influence of the deductible decision for our example farm. Keep in mind that the expected total gross margin is estimated at \$180,951. However, now let's assume that the farm

purchased LGM-Dairy insurance at the \$1.50 deductible level (values of \$0 to \$2 per hundredweight are permitted). This makes the gross margin guarantee \$158,451 (\$180,951-\$22,500) and the associated producer premium \$1,825, after including all subsidies and administrative fees over the 11 months.

Remember that the dairy generated an actual gross margin of \$150,000 over the insured period (due to declining milk price, increasing feed prices, or both). An indemnity payment would be due because the actual gross margin fell below the gross margin guarantee. The indemnity payment would be calculated as the difference of the gross margin guarantee and the actual gross margin or \$8,451 in this case (\$158,451 - \$150,000).

Clearly the level of deductible selected when purchasing LGM-Dairy makes a difference in the indemnity payments the farm could expect in a loss situation. Given the same level of actual gross margin, indemnity payments varied from \$30,951 to \$8,451 with deductibles set at \$0 and \$1.50, respectively. As with any form of insurance, the higher the level of protection purchased, the higher the cost. Premiums paid varied in this case from \$9,535 to \$1,825. These two examples demonstrate that the choice of deductible should be made with careful consideration of the expectations for the future.

Table 2. California Farm Example continued

Item	Calculation	Amount
Expected Total Gross Margin	Expected Target Marketings – Expected Feed Costs	\$180,951
Deductible Level		\$1.50
Gross Margin Guarantee	\$180,951 - (15,000 * \$1.50)	\$158,451
Producer Premium	\$2,230 – \$405	\$1,825
Actual Gross Margin		\$150,000
Estimated Indemnity Payment	\$158,451 - \$150,000	\$8,451

<sup>\*</sup> The producer has the option of estimating their own values for these feed equivalents.

#### For more information

More information on the Livestock Gross Margin - Dairy plans of insurance may be found at the USDA Risk Management Agency website <a href="https://www.rma.usda.gov">www.rma.usda.gov</a>.

This web site also includes a Cost Estimator tool that allows the user to evaluate premium costs for various levels of

LGM-Dairy protection. Click on the Information Browser link in the left side bar and choose the Cost Estimator link on the following page. From the next list select either Quick Estimate or Detailed Estimate to begin estimating premium costs. This tool will also provide premium estimates for other federally-subsidized insurance products.

There are several web sites that provide additional information on LGM -Dairy. One website maintained by the University of Wisconsin contains software tools for evaluating the program, fact sheets and bulletins explaining how the program works, and links to other information on the U.S. dairy industry, including historic price data. The website is located at: future.aae.wisc.edu.

### How do I get it?

Federally-subsidized crop insurance products managed by RMA are sold by private crop insurance agents. The RMA website lists an Agent/company Locator link in the right side bar of their home page. This link provides a list of all agents approved to provide these products in California.

For more information on LGM-Dairy, how it may fit your operation, and other crop insurance products, consult a local crop insurance agent. For more interactive products and information on risk management, consult eRightRisk.com.







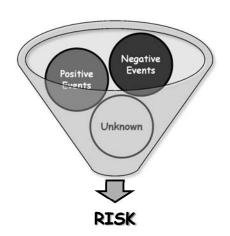
# Ag Risk-5

tools for managing risk and evaluating risk management strategies



### What is RISK?

- Certainty- lack of doubt
- Uncertainty- doubt about future events
- **RISK-** potential variation in the outcome of future events



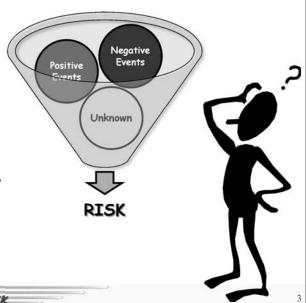
### What is RISK?

# Cost of Loss

- Income
- Resources
- Productive capacity, etc.

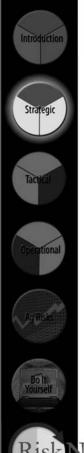
# Cost of Uncertainty

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

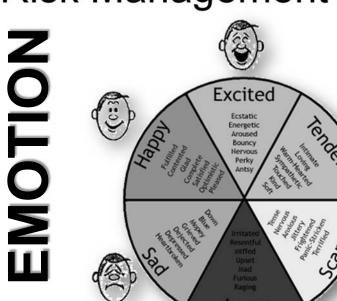




RIGHTRISK

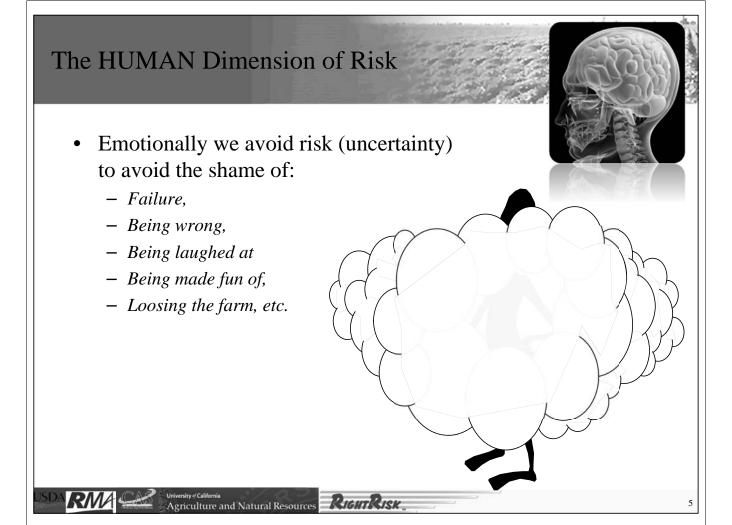


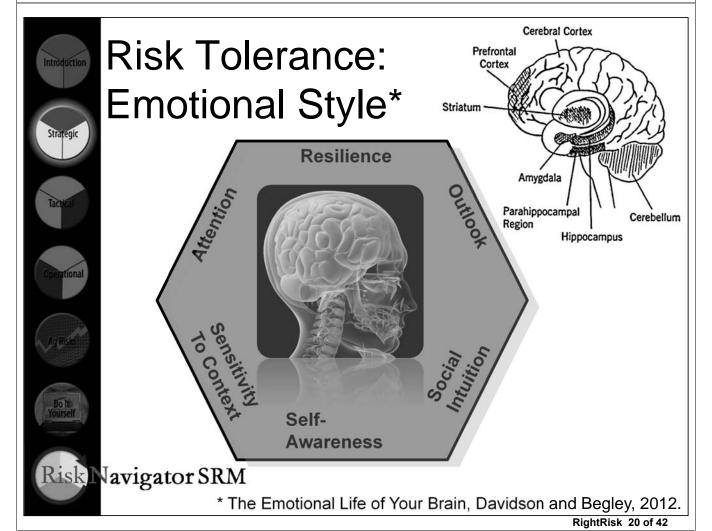
Human Dimension of Risk Management

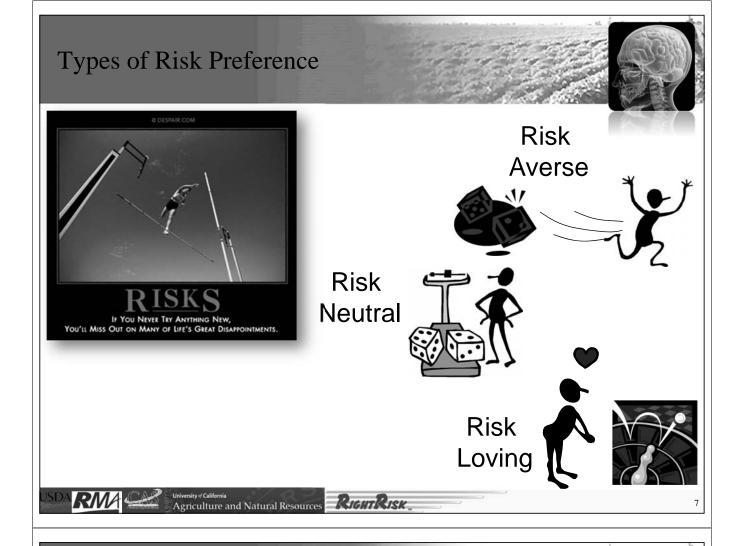




Risk Navigator SRM







# Personal Perspectives on Risk

- Generational differences
- Gender differences
- Life stage/family differences
- Life experiences

dynamic and changing over time.



### Risk Tradeoffs

# <u>Profits</u> are returns for taking risks



- **Upside**: Greater risk taking usually leads to greater wealth over time
- **Downside**: Losses from risk taking can potentially be devastating
- Managing risks are a matter of evaluating tradeoffs
- How much risk (uncertainty) are you willing to accept for possible higher returns?



RIGHTRISK

.

# 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











# Marketing and Price Risk

Prices of inputs or outputs that change after you commit to a plan of action.

# What are Your Sources?

- Total national production
- Government programs
- Demand (including quality issues)
- Seasonal effects







11

# Marketing and Price Risk

# What are Your Management Controls?

- Forward pricing or contracting
- Diversified market timing
- Diversified production
- Selecting low price risk enterprises
- Obtaining market outlook reports (information)
- Negotiated lease agreements
- Crop Insurance





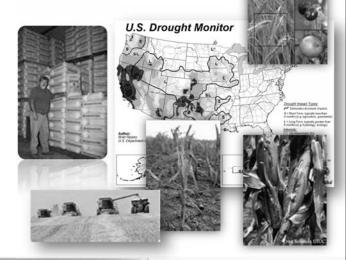
RIGHTRISK

### **Production Risk**

Uncontrollable events such as weather, pests or disease make yields, quality, or outputs unpredictable.

# What are Your Sources?

- Weather
- Pests
- Disease
- Genetic variations
- Timing of operations





University of California
Agriculture and Natural Resource



13

### **Production Risk**

# What are Your Management Controls?

- Selecting low production risk enterprises
- Using low-risk production practices
- Diversification
- Maintaining flexibility and extra capacity
- Utilizing land over a wide spread area
- Crop insurance



### **Institutional Risk**

Government or other institutional rules, regulations and policies effect profitability through costs or returns.

# What are Your Sources?

- Changes in social attitudes
- Changing regulations about land use and environmental quality
- The possibility of lawsuits for accidents or misuse of chemicals







1.5

### **Institutional Risk**

# What are Your Management Controls?

- Maintaining a liability insurance program
- Keeping informed of new regulations and

interpretations of the law



### **Human Risk**

The character, health or behavior of the people involved in your operation introduces risk.

# What are Your Sources?

- Health issues
- Divorce
- The possibility of losing a key employee
- Moral or the mental state of the work force







17

### **Human Risk**

# What are Your Management Controls?

- A backup management plan
- A plan to deal with the possible loss of a key employee
- Maintaining a health and life insurance program
- Establishing and maintaining an estate plan
- A good employee benefit package



### Financial Risk

Financial risk is the extra risk that is attached to being leveraged. Added variability resulting from debt financing.

# What are Your Sources?

- Possibility of losing a lease
- Production, prices, or casualty losses
- Unstable financial partners
- Anything that would negatively affect cash flow and the ability to meet debt obligations







19

### Financial Risk

# What are Your Management Controls?

- Maintaining a financial cushion
- Practicing solid land leasing strategies
- Incorporating all or part of your operation
- Maintaining up-to-date financial information



# 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



21

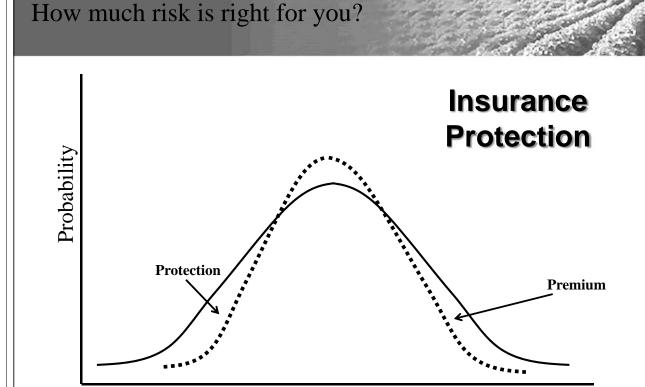
RightRisk 28 of 42





University of California
Agriculture and Natural Resource

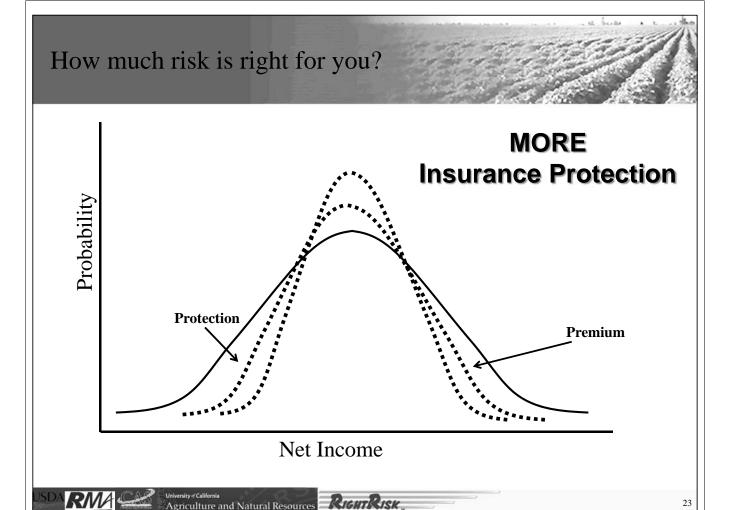




Net Income

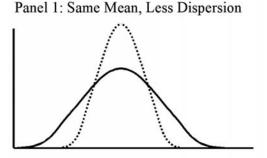
Agriculture and Natural Resources

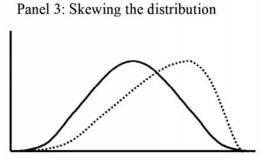
RIGHTRISK



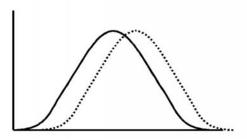




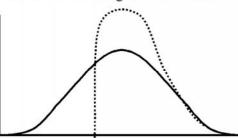




Panel 2: Same Dispersion, Higher Mean



Panel 4: Truncating the Distribution



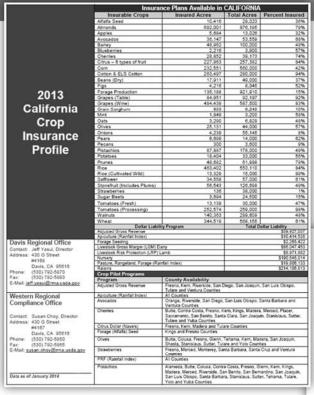
24

ISDA RMA CAS

University (California Agriculture and Natural Resource



# **Current Federal Insurance Options**



http://www.rma.usda.gov/pubs/2014/stateprofiles/california13.pdf

### California Fifteen Year Crop Insurance History

Year	Policies Earning Premium	Net Acres Insured	Liability	Gross Premium	Losses	Loss Ratio
1999	28,590	4,023,277	2,494,656,258	130,826,215	133,134,448	1.02
2000	29,191	4,278,811	2,796,253,781	143,343,081	92,359,660	0.64
2001	27,958	4,010,128	2,690,254,801	142,519,840	117,359,756	0.82
2002	27,200	3,920,007	2,833,618,262	146,356,279	79,069,948	0.54
2003	26,471	3,990,438	2,951,841,797	150,191,677	79,366,135	0.53
2004	25,629	3,908,123	3,153,568,412	157,913,694	83,152,323	0.53
2005	24,859	3,818,813	3,317,832,621	168,995,411	92,497,107	0.55
2006	24,490	3,732,668	3,658,867,941	186,617,268	88,506,353	0.47
2007	24,207	3,780,829	3,708,288,115	187,455,253	154,139,100	0.82
2008	24,074	3,810,375	3,911,645,612	197,920,945	89,455,031	0.45
2009	24,723	3,932,306	4,648,316,411	243,273,227	177,694,925	0.73
2010	24,649	3,752,230	4,493,432,544	219,282,609	111,142,020	0.51
2011	24,726	4,062,207	4,792,588,280	248,898,972	110,209,054	0.44
2012	25,462	4,600,044	5,394,444,735	260,903,031	112,207,209	0.43
2013*	25,470	5,233,794	6,097,497,679	286,604,558	82,422,389	0.29

JSDA RMA CAR

University of California
Agriculture and Natural Resources

RIGHTRICK

25

#### Current Federal Insurance Options - Crops Federal Crop Insurance Corporation Crop Year Statistics for 2013 As of: 5/19/2014 Nationwide Summary - By State/Crop Total Premium ADJUSTED GROSS REVENUE ALFALFA SEED ALMONDS APICULTURE APPLES AVOCADOS BARLEY CALIFORNIA 34,840,057 14,105,093 1,517,069,955 10,414,535 21,910,284 72,259,384 58 62 3,894 190 123 1,081 77 3,856 4,292,712 5,545,093 1,151,774 732,933 677,428 7,093 2,227,841 573,098 55,343,395 2,969,479 3,215,918 8,665,290 436,823 339,328 36,083,880 1,563,974 2,052,786 7,415,855 1 177 186 27 78 14 38,756 47,774 4,936,645 6,637,432 Federal Crop Insurance Corporation Crop Year Statistics for 2013 As of: 5/19/2014 Nationwide Summary - By State/Crop Total Premium Crop Pol Pol Earn Sold Prem Liabilities State Prem Sbsdy Dscnt CALIFORNIA PLUMS POTATOES PROCESSING APRICOTS PROCESSING CLING PEACHES PROCESSING FREESTONE PRUNES PRUNES PROMESTANDER PROFESTONE 311 56 41 345 63 615 2,068,851 1,640,507 308,356 1,049,095 129,674 6,570,306 5,817,145 26,493,269 36,912,644 3,599,285 42,845,401 354 104 49 358 78 641 437 1,646 5,987,822 55,203,797 216,357 10,870,139 446 117 15 Pistachios RAISINS 396 1373 98 14 200,652,566 249,926,786 123,043 13,725,643 6,675 79 116 24 104 5.147.936 214.573 278 43,681,679 1.534.102 1.106.258 83,970 248,300,787 297,130,402 4 314 052 RICE Total SAFFLOWER 511 101 679,231 65,582 35,724 38,120 47,872 SUGAR BEETS SWEET ORANGES 10,517 842,230 2,519,606 Strawberries TABLE GRAPES 74,728 74,728 9,670,149 7,952,985 4,412,327 7,722,341 5,777,140 616,408 2.068.816 251,103,013 7,885,504 4,686,427 84,874 253,174 31,259 140,004 91,056 10,246 243,446 344,748 TOMATOES 7,759,496 1,850,801 1,104,107 7,380,630 308,820 1,741,652 9,431,102 VALENCIA ORANGES WALNUTS WHEAT WHEAT Total CALIFORNIA Total 33,325 25,408 2,678 48,175 4,290 5,240,534 6,139,821,032 288,737,222 124,979,245 .43 48,175 5,240,534 6,139,821,032 288,737,222 192,491,937 124,979,245 RightRisk 30 of 42

# Current Federal Insurance Options - Livestock

Federal Crop Insurance Corporation Reinsurance Year Statistics for 2013 As of: 5/21/2014 Nationwide Summary - By State/Commodity

Commodity	Ins Plan	Pol Sold	Pol Earn Prem	Pol Indem	Units Earn Prem	Units	Number of Head *	Liabilities	Total Premium	Subsidy	Indemnity	Loss Ratio
CALIFORNIA												
DAIRY CATTLE	LGM	39	32	13	60	16	4,387,886	86,047,453	2,221,788	943,820	533,774	.24
FED CATTLE	LRP	2	. 0	0	0	0	0	0	0	0	0	.00
FEEDER CATTLE	LRP	5	3	2	6	3	1,760	2,108,858	37,607	4,887	41,436	1.10
LAMB	LRP	28	14	12	38	36	46,850	8.971.882	279,209	83,137	1,561,946	5.59
CALIFORNIA Total		74	49	27	104	55	4,436,496	97,128,193	2,538,604	1,031,844	2,137,156	.84
Grand Total		74	49	27	104	55	4,436,496	97,128,193	2,538,604	1,031,844	2,137,156	.84

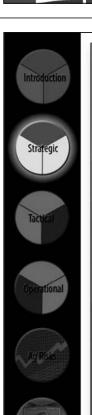


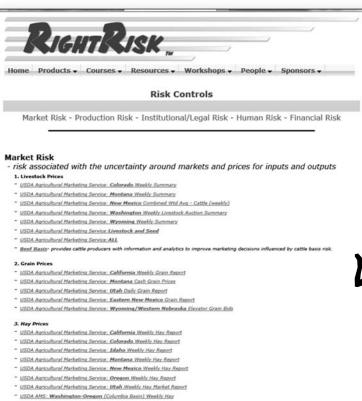


University of California
Agriculture and Natural Resources



27

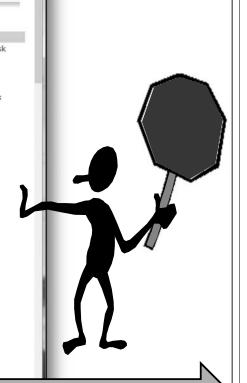




USDA ANS: Wyoming, West Nebraska, and SW South Dakota Hay Report (weekly)
 USDA Agricultural Marketing Service: Wyoming Weekly Summary

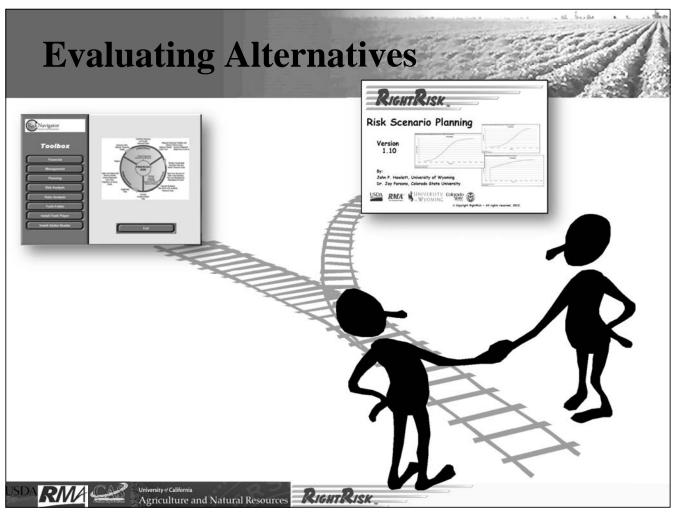
USDA National Agricultural Statistics Service: Cash Rents by County

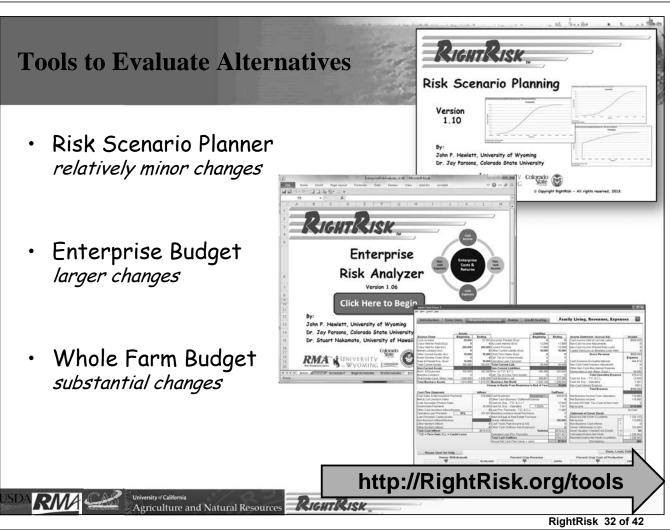
4. Lease Rates/Grazing Fees



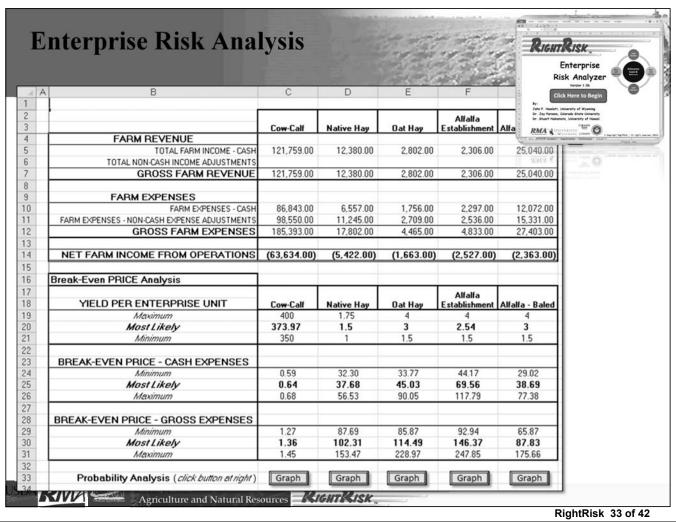
http://RightRisk.org/controls

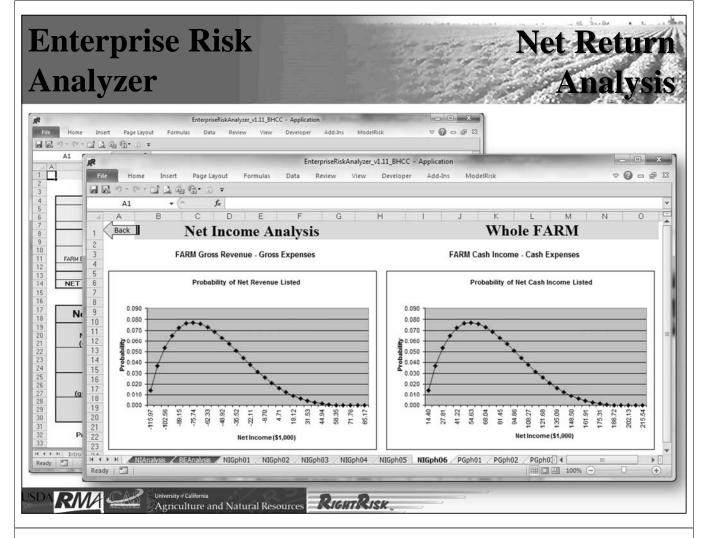
RightRisk 31 of 42

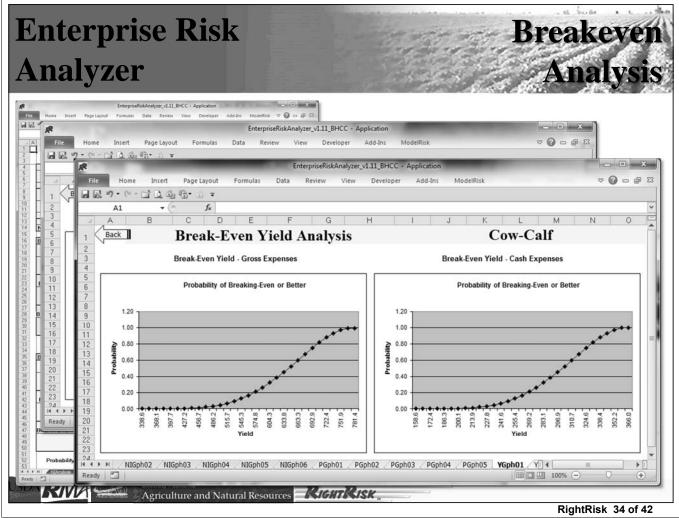


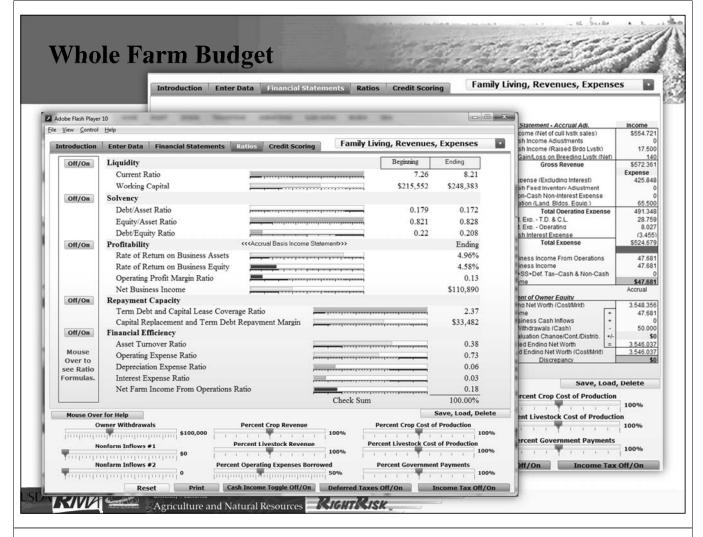


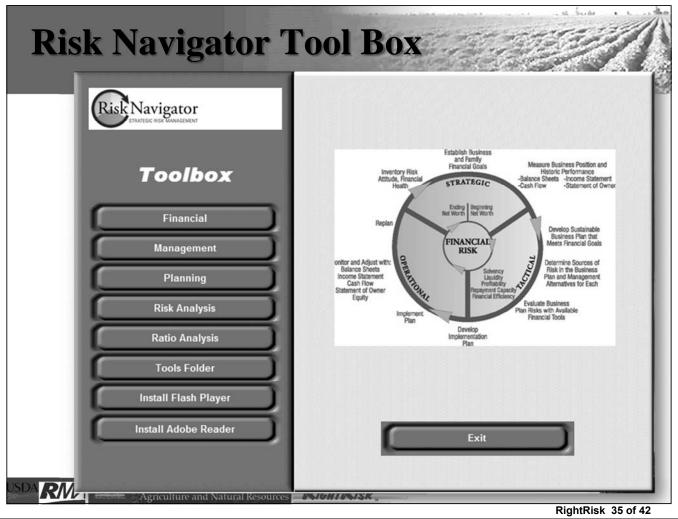


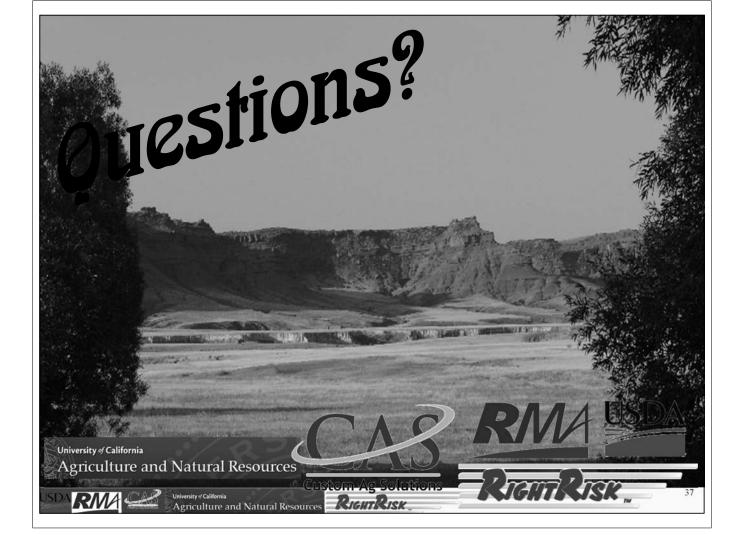












# **Statewide Cost Comparison Summary**

### **Statewide Cost Comparison Summary, 2013**

	0010					0010	
All costs: per cow per month, unless noted	2012	North	North	South	Southern	2013	Percent
Number of House	Average	Coast	Valley	Valley	California	Average 114	Change
Number of Herds Feed Costs	126	12	60	38	4	114	
a. Dry Roughage	\$48.39	\$61.48	\$43.13	\$50.07	\$53.20	\$48.16	-0.5%
b. Wet Feed & Wet Roughage	\$46.39 \$44.02	\$20.64	\$50.65	\$30.07 \$44.28	·	\$46.06	4.6%
c. Concentrates	\$44.02 \$111.99	\$20.0 <del>4</del> \$95.72	\$108.40	· ·		\$ <del>1</del> 0.00	2.8%
d. Minerals & Supplements	\$9.10	\$1.67	\$100.40	\$7.68		\$8.05	-11.5%
e. Pasture	\$9.10 \$1.45	\$1.07 \$41.07	\$1.91	\$0.00		\$0.05 \$1.55	7.3%
Total Feed Costs	\$214.95	\$220.58	\$213.70	\$222.05		\$218.99	1.9%
Total Feed Costs (\$/cwt.)	\$11.48	\$16.03	\$11.16	\$11.61	\$11.53	\$11.46	-0.1%
Total Feed Costs (% of total cost)	65.3%	68.0%	64.0%	67.2%	68.2%	66.0%	0.170
Total Hired Labor	\$28.47	\$36.18	\$32.38	\$26.36	\$27.24		1.7%
Total Hired Labor Costs (\$/cwt.)	\$1.52	\$2.63	\$1.69			\$1.52	-0.3%
Total Labor Costs (% of total cost)	8.7%	11.1%	9.7%	8.0%	8.4%	8.7%	0.070
Total Herd Replacement	\$23.14	\$13.49	\$20.47	\$21.46		\$20.73	-10.4%
Total Replacement Costs (\$/cwt.)	\$1.24	\$0.98	\$1.07	\$1.12		\$1.08	-12.2%
Total Replacement Costs (% of total cost)	7.0%	4.2%	6.1%	6.5%	4.8%	6.2%	12.270
Operating Costs	11070	11270	0.170	0.070	110 70	0.270	
a. Utilities	\$5.42	\$9.12	\$5.88	\$5.04	\$6.81	\$5.49	1.3%
b. Supplies	\$10.02	\$10.61	\$10.83	\$9.52	·	\$9.93	-0.9%
c. Veterinary & Medicine	\$7.02	\$3.34	\$7.55	\$7.57		\$7.37	4.9%
d. Outside Services	\$3.69	\$1.74	\$4.34	\$3.02	\$2.71	\$3.50	-5.1%
e. Repairs & Maintenance	\$6.36	\$6.45	\$7.69			\$6.33	-0.5%
f. Miscellaneous	\$1.28	\$1.52	\$1.52	\$1.36		\$1.41	10.3%
g. Bedding & Manure Haul	\$1.10	\$1.86	\$1.14	\$0.72		\$0.98	-10.6%
h. Fuel & Oil	\$4.05	\$5.31	\$4.10	\$3.78		\$3.86	-4.7%
i. Interest Expense	\$1.24	\$0.37	\$0.81	\$1.68		\$1.33	7.2%
j. R E Lease Expense	\$4.81	\$1.15	\$5.19			\$5.43	13.0%
k. Depreciation	\$5.34	\$5.15	\$5.75	\$4.49		\$4.97	-7.1%
I. Taxes & Insurance	\$2.15	\$1.65	\$2.30	\$2.30	\$1.91	\$2.27	5.5%
Total Operating Costs	\$52.48	\$48.26	\$57.09	\$50.06	\$47.82	\$52.87	0.7%
Total Operating Costs (\$/cwt.)	\$2.80	\$3.51	\$2.98	\$2.62	\$2.50	\$2.77	-1.2%
Total Operating Costs (% of total cost)	15.9%	14.9%	17.1%	15.2%	14.8%	15.9%	
Milk Marketing Costs							
a. Hauling	\$6.66	\$3.02	\$6.59	\$6.91	\$8.34	\$6.88	3.3%
b. State Assessments	\$2.43	\$2.36	\$2.59	\$2.54	\$2.66	\$2.57	5.6%
c. Federal Assessments & Misc. Ded.	\$0.95	\$0.62	\$0.97	\$0.98	\$0.96	\$0.97	2.6%
Total Milk Marketing Costs	\$10.04	\$6.00	\$10.15	\$10.43	\$11.96	\$10.42	3.8%
Total Milk Marketing Costs (\$/cwt.)	\$0.54	\$0.44	\$0.53	\$0.55		\$0.55	1.7%
Total Milk Marketing Costs (% of total cost)	3.1%	1.8%	3.0%	3.2%	3.7%	3.1%	
Total Cost (\$/Cow/Month)	\$329.07	\$324.51	\$333.79	\$330.36	\$322.95	\$331.95	0.9%
Total Cost (\$/cwt.)	\$17.57	\$23.58	\$17.44	\$17.27	\$16.90	\$17.37	-1.1%
Return on Investment and Management							
a. Allowance: Return on Investment (\$/cwt.)	\$0.80	\$0.99	\$0.76	\$0.81	\$0.70	\$0.79	-1.3%
b. Allowance: Return on Management (\$/cwt.)	\$0.66	\$0.78	\$0.74	\$0.74	\$0.75	\$0.74	12.1%
Total Costs and Allowances (\$/cwt.)	\$19.03	\$25.35	\$18.94	\$18.82	\$18.35	\$18.90	-0.7%
Milk Production Data							
a. Milk Sold/Total Cow/Month/ (cwt.)	18.73	13.76	19.14	19.13	19.10	19.11	2.0%
b. Lbs Milk Sold/milk cow/day	71.03	52.89	72.63			72.18	1.6%
f. Income Over Feed Cost (\$/cwt.)	\$5.45	\$9.86	\$8.16			\$7.38	35.6%
g. Fat Test %	3.82%	3.87%	3.93%	3.80%		3.83%	
h. SNF Test %	8.91%	8.84%	8.97%	8.94%	8.91%	8.95%	
Related Data							
i. Milk Cow Feed Costs (\$/cow/day)	\$7.67	\$7.82	\$7.64	\$7.93	\$7.85	\$7.81	1.9%
j. Milk Cow Feed Costs (\$/cwt.)	\$10.82	\$14.79	\$10.52			\$10.85	0.3%
I. Total Cows	1,355	279	1,204	1,930		1,360	0.4%
Milk Volume Percentages <sup>1</sup>	100.00%	2.15%	37.73%			100.00%	
with volume refeemages	100.00 /0	2.13/0	31.13/0	J4.2U /0	J.32 /0	100.00 /0	

<sup>&</sup>lt;sup>1</sup> Weighted average computed based on 2013 milk volume percentages.

http://www.cdfa.ca.gov/dairy/



Home Products → Courses → Resources → Workshops → People → Sponsors →

#### **Risk Controls**

Market Risk - Production Risk - Institutional/Legal Risk - Human Risk - Financial Risk

#### **Market Risk**

risk associated with the uncertainty around markets and prices for inputs and outputs

- USDA Agricultural Marketing Service: Colorado Weekly Summary
- USDA Agricultural Marketing Service: New Mexico Combined Wtd Avg Cattle (weekly)
- USDA Agricultural Marketing Service: Washington Weekly Livestock Auction Summ
- \* USDA Agricultural Marketing Service: Wyoming Weekly Summary
- USDA Agricultural Marketing Service: Livestock and Seed
- USDA Agricultural Marketing Service: ALL
- Beef Basis- provides cattle producers with info

- USDA Agricultural Marketing Service: California Weekly Grain Report
- \* USDA Agricultural Marketing Service: Montana Cash Grain Prices
- USDA Agricultural Marketing Service: Utah Daily Grain Report
- USDA Agricultural Marketing Service: Wyoming/Western Nebraska Elevator Grain Bids

- USDA Agricultural Marketing Service: California Weekly Hay Report
- USDA Agricultural Marketing Service: Colorado Weekly Hay Report
- USDA Agricultural Marketing Service: Idaho Weekly Hay Report
- USDA Agricultural Marketing Service: Montana Weekly Hay Report
- USDA Agricultural Marketing Service; New Mexico Weekly Hay Report
- USDA Agricultural Marketing Service: Oregon Weekly Hay Report
- \* USDA Agricultural Marketing Service: Utah Weekly Hay Market Report
- USDA AMS: Washington-Oregon (Columbia Basin) Weekly Hay
- USDA AMS: Wyoming, West Nebraska, and SW South Dakota Hay Report (weekly)
- USDA Agricultural Marketing Service: Wyoming Weekly Summary

- USDA AMS: Wyoming, West Nebraska and SW Dakota Grazing Fee Report
- \* USDA National Agricultural Statistics Service: Cash Rents by County







Agriculture and Natural Resources





Home Products 

Courses 

Resources 

Workshops 

People 

Sponsors

#### **Risk Management Tools**

Partial Budget Analyzer
 Use this tool to evaluate smaller changes in the operation.
 Click here for a quide on using a partial budget.

#### 2. Risk Scenario Planning

rinces acrove.

<u>Click here for a version</u> of the Risk Scenario Planning tool depicting the crop farm "Replace Corn with more Dry Beans acres" example outlined in the guide linked above.

<u>Click here for a version</u> of the Risk Scenario Planning tool depicting the Con/Calf "LRP Insurance Decision" example outlined in the guide

3. Enterprise Risk Analyzer

- Use this tool to evaluate larger changes or changes in enterprise mix for the operation.

- (light here for a quigle to use the Enterprise Risk Analytice tool.

- (light here for a version of the ERA populated with Wyoming Big Horn Basin Cowl Call Ranch data

- (light here for a version of the ERA populated with Wyoming Big Horn Basin Farm data.

4. Whole Farm Budget

- Use this tool to evaluate more substantial changes, adding ranches/farms, whole enterprises, etc. to the operation.

- (light here for a guide to use the RDFInancial tool.

5. Risk Navigator Toolbox

Access the autensive risk management library (20+ tools) designed to implement a strategic risk management.

### 6. Price Risk Analysis: Futures, Options, LRP Comparison

#### 7. Financial Analysis Tool (FAT)

# Should I Buy Hay or Sell Cows? Use this tool to the evaluate cow retention decision. [From the Farm Management Wiki]

### 9. Livestock Marketing and Risk Management

### 10. Machinery and Operations Cost

http://RightRisk.org/tools









# **Risk Management Profiles**







# RightRisk Newsletter



RISK MANAGEMENT PROFILE

VI-PRF pilot insurance

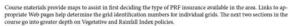
Minimizes feed risk for Z-F
Early fall 2010 on the Z-F Ranch found owners Bob
and Betsy Zomer assessing risk management strategies and Betsy Zomer assessing risk management strategies for their cow-call and yearling operation. The Zomers are situated on 12,000 acres of pasture and 200 acres of native hay in Fremont County, Wyoming. Both husband and wife were concerned about the coming production year. This year's late summer and early fall had been dry, and they were worried it would carry ower into next year.



RightRisk.org > Resources > Risk Mgt Profiles

HIGHLIGHTED COURSE

The Pasture, Rangeland, Forage (PRF) Pilot Insurance Program course available at Right Risk orgoffers a step-by-step approach to learn more about PRF insurance and how PRF car be applied. The course includes audio and interactive features, while example farm profile demonstrate application to real-world examples.



A section of the PRF course explains how to go online to the RMA website and make the most of the cost estimator. Finally, users are encouraged to compare their own yield/historical experience for their grids with that presented in the online decision tool/cost estimator Web pages.



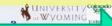
RightRisk helps decision-makers discover innovative and effective risk management solutions.

- Education
- Couching
- · Research

E-mail: information@RightRisk.org Web: www.RightRisk.org

RightRisk News is brought to you by the RightRisk Team Contributing authors: John Fischt, Endo-Vieru Menagement Specialist - University of Viyosing, head John Fischter, Endo-Vieru Menagement Specialist - Colorado State University, John Fischten, End Statery, An ad Deutsen Management Specialist - Colorado State University, John Self Hang, And and Deutsen Management Specialist - Colorado State University, Self-Editing and Layouti, John Selecka, bedeelenway-seeds

How much risk









University of California
Agriculture and Natural Resources









University of California
Agriculture and Natural Resources



# RIGHTRISK TA

# DATES TO REMEMBER

- July 15, 2014: Spring crop acreage reporting deadline.
- August 15, 2014: Spring premium billing deadline date.
- November 15, 2014: Pasture, Rangeland, Forage (PRF) sales closing date.

For more information see: http://www.rma. usda.gov.

# RIGHTRISK NEWS

### 2014 Farm Bill

The 2014 Farm Bill, formally titled The Agricultural Act of 2014, was signed into law on February 7, 2014. This bill, authorized and funded through 2018, will bring about many changes to U.S. agricultural programs. This article provides a broad overview of the Bill with an emphasis on the risk management decision aspects that some of the new programs and modifications to existing programs create.

### **Direct Payment and Counter-Cyclical Programs End**

The Direct Payment program, the Counter-Cyclical Program, and the Average Crop Revenue Election (ACRE) program are all repealed with the 2014 Farm

Bill. These programs are replaced with two new programs: the Price Loss Coverage (PLC) program and the Agricultural Risk Coverage (ARC) program.

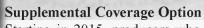
These Farm Service Agency (FSA) programs are designed to help mitigate risk for producers of commodity program crops in times of low yields and/or prices. The big change from a risk management standpoint is that the known payment that came with the Direct Payment program has gone away.



In theory, this creates more risk for producers moving forward in that FSA payments become more variable. The PLC program is a price guarantee program while the ARC program is a revenue guarantee program. Both programs use national prices, while the

ARC program uses a 5-year Olympic average yield to determine average revenue.

Probably the biggest consideration at this point in time is that producers must make an election between ARC and PLC in 2014 for each farm and this election remains in effect for the 2014–2018 crop years. The 2014 Farm Bill also provides owners and operators a one-time opportunity to update their base acres across commodity program crops.



Starting in 2015, producers who enroll in PLC and participate in the federal crop insurance program have an additional option available to them. On an annual basis, these producers can decide whether to purchase the Supplemental Coverage Option (SCO) for individually insured commodity program crops.

continued on pg. 2



### RISK MANAGEMENT PROFILE

ich and Sally Samedi have been farming for close to 20 years. During that time they have encountered a variety of different risks. Sometimes things have worked out well; sometimes not so well.

Rich and Sally are at a point in their life that they feel a need to take a deeper look at their farming operation and the risk/reward potential that it holds for their family as a whole.

To read more see: http://RightRisk.org > Resources > Risk Mgt Profiles



### 2014 FARM BILL CONTINUED FROM PG. 1

This coverage provides the producer with the option of

protecting a portion their insurance deductible up to a total of 86 percent coverage for yields and/or revenue, based on county averages. Crops for which the producer has elected to participate in ARC are not eligible for the SCO.

### **NAP** and **Disaster Programs**

The Noninsured Crop Disaster Assistance Program (NAP) has been expanded to include buy-up coverage in 5-percent increments from 50 percent up to 65 percent yield coverage at 100 percent of market price.

The four disaster assistance programs authorized in the 2008 Farm Bill are reauthorized retroactively to October 1, 2011 and are extended indefinitely. The programs include the Livestock Forage Disaster Program (LFP), the Livestock Indemnity Program (LIP), the Emergency Assistance for Livestock, Honey Bees, and Farm-Raised Fish Program (ELAP), and the Tree Assistance Program (TAP). Beginning April 15, 2014, producers can begin enrolling in these programs for qualified 2012-2014 losses.

### **Dairy Programs**

The 2014 Farm Bill created the Dairy Margin Protection Program to replace the Milk Income Loss Contract Program (MILC). The Dairy Margin Protection Program provides catastrophic margin coverage for producers at no cost other than a \$100 administrative fee. The catastrophic margin is defined to be a \$4 per hundredweight margin between the all-milk price and average feed costs. Buy-up coverage is available for margins between \$4 and \$8 per hundredweight.

In coming months, we will have more details on these programs and other considerations for upcoming risk management decisions and strategies.



# RightRisk helps decision-makers discover innovative and effective risk management solutions.

- Education Coaching

E-mail: information@RightRisk.org Web: www.RightRisk.org

RightRisk News is brought to you by the RightRisk Team

Contributing authors:

John Hewlett, Ranch/Farm Management Specialist - University of Wyoming, hewlett@uwyo.edu Jay Parsons, Risk Management Specialist - Colorado State University, Jay.Parsons@ColoState.edu Rod Sharp, Ag and Business Management Specialist - Colorado State University, Rod.Sharp@ColoState.edu Jeff Tranel, Ag and Business Management Specialist - Colorado State University, Jeffrey. Tranel@ColoState.edu Editing and Layout: John Hewlett, hewlett@uwyo.edu

Past issues of RightRisk News are available at: http://RightRisk.org > Resources > RightRisk News To subscribe/unsubscribe, email information@RightRisk.org subject line "Subscribe/Unsubscribe RR News"

How much rish is right for you and your operation?

