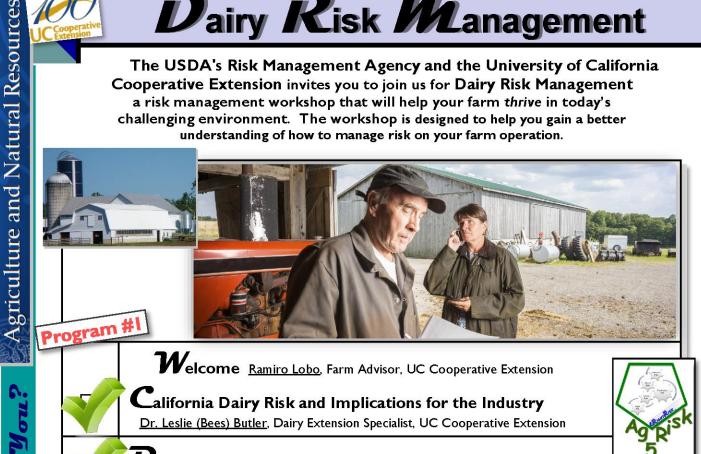
Dairy **R**isk **M**anagement

The USDA's Risk Management Agency and the University of California Cooperative Extension 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.



California Dairy Risk and Implications for the Industry Dr. Leslie (Bees) Butler, Dairy Extension Specialist, UC Cooperative Extension

 $\boldsymbol{\mathcal{D}}$ airy Herd Nutrition under Drought Conditions Dr. Peter Robinson, Dairy Nutrition and Management, UC Cooperative Extension

Dairy Herd Health under Drought Conditions Dr. Gene Harlan, Cotati Large Animal Hospital, Cotati

 $oldsymbol{F}$ arm Bill Dairy Margin Program and LGM for Dairy Dr. Jay Parsons, Risk Management Specialist, University of Nebraska-Lincoln

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

California.eRightRisk.com

 $oldsymbol{\mathcal{D}}_{ ext{se}}$ 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



RIGHTRISK

University of California

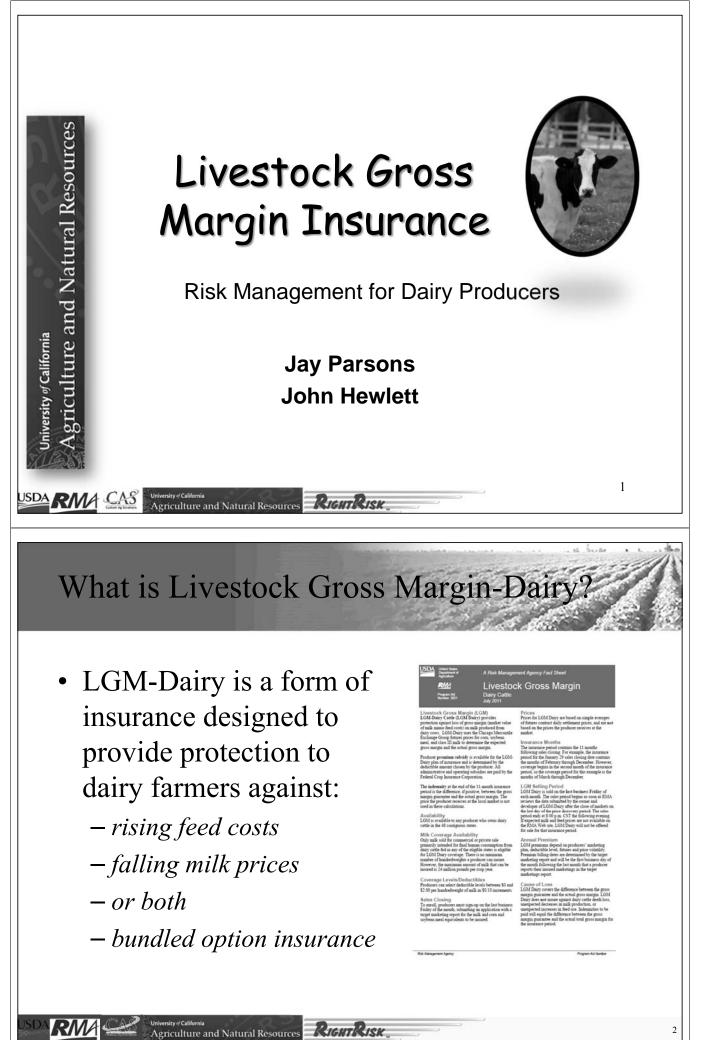
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Program #2





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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).

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RIGHTRISK

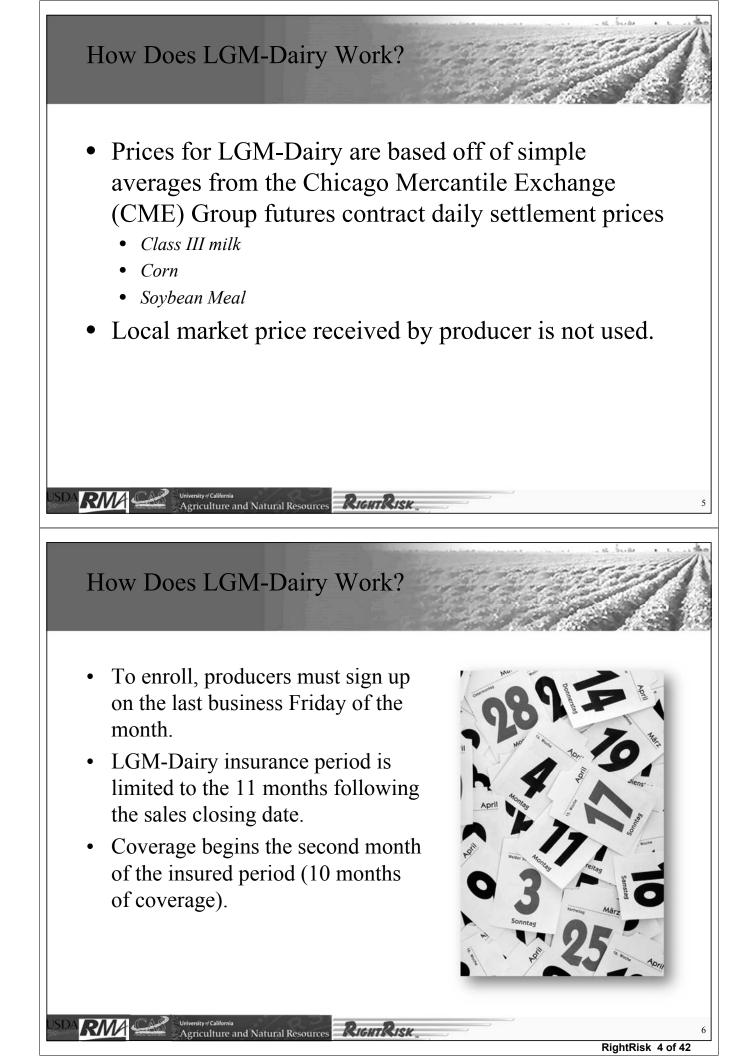


What is LGM-Dairy?

- 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

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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 '14	Jul '14	Aug '14	Sep ′14	Oct '14	Nov '14	Dec '14	Jan ′15	Feb '15	Mar ′15	Apr ′15	May '15
		1	2	3	4	5	6	7	8	9	10
Purchase at End of Month				In	surar	nce Ca	ontrac	t Peri	iod		

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.

Jun '14	Jul '14	Aug '14	Sep '14	Oct '14	Nov '14	Dec '14	Jan ′15	Feb '15	Mar ′15	Apr '15	May '15
Cover Mont		10000 cwt.	10000 cwt.	10000 cwt.	15000 cwt.	15000 cwt.	10000 cwt.	10000 cwt.	15000 cwt.	10000 cwt.	10000 cwt.
Cor	'n	140 tons	140 tons	140 tons	210 tons	210 tons	140 tons	140 tons	210 tons	140 tons	140 tons
Soybean	Meal	20 tons	20 tons	20 tons	30 tons	30 tons	20 tons	20 tons	30 tons	20 tons	20 tons
SDA RMA		University of Califor Agricultur		al Resources	RIGHT	RISK.					

- *Note: Producer estimates must fall within an acceptable range.*

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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
]	Expecte	d Price	S			
Milk (\$	/cwt.)	19.95	19.90	19.69	19.18	18.69	18.27	18.10	18.07	18.03	18.06
Corn (S	6/bu.)	4.77	4.76	4.76	4.76	4.76	4.79	4.82	4.85	4.88	4.91
Soybean (\$/to		460.56	426.12	397.42	395.54	393.65	393.01	393.40	393.78	393.62	393.45
SDA RM /		University & Califo Agricultur	rnia re and Natur	al Resources	RIGHT	RISK.					

• Uses CME futures contracts prices.

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
				Exp	oected V	alues (\$	5)				
Milk R	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

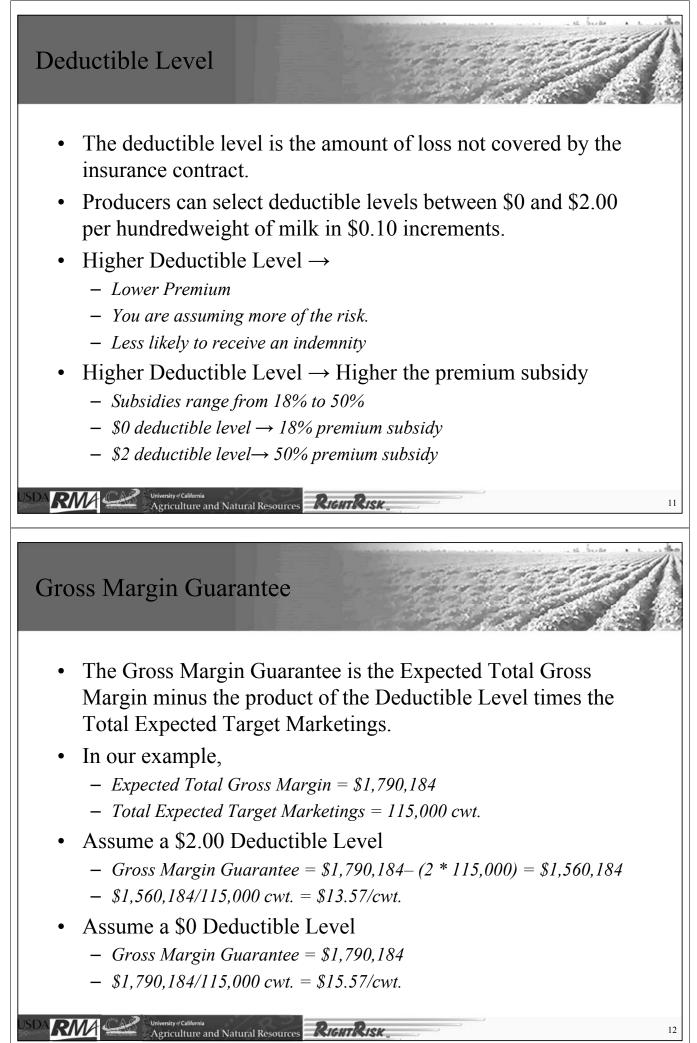
• Expected Total Gross Margin = \$1,790,184.

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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

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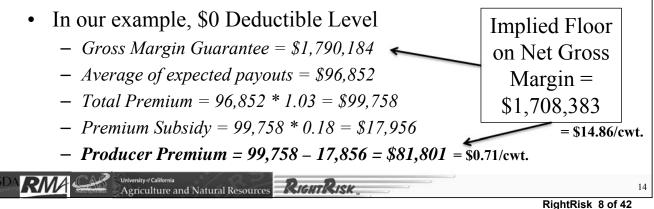
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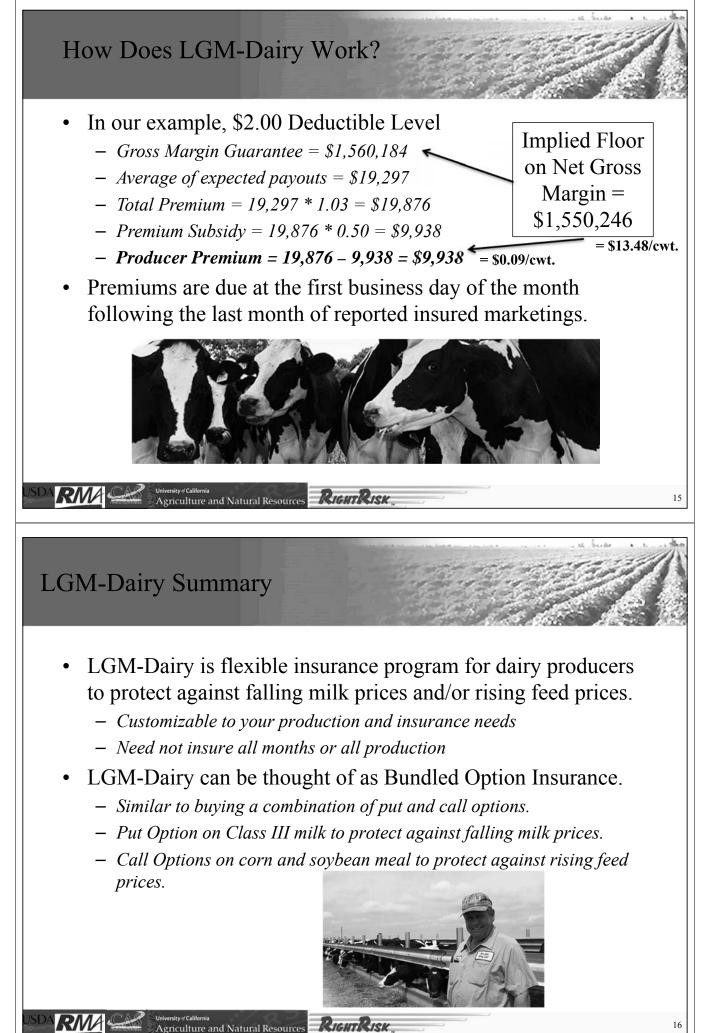
Annual Premium

- 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.)

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- Premiums are calculated using 5,000 simulated payout profiles
- Total Premiums = Average of simulated payouts + 3%





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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

Agriculture and Natural Resources

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California: LGM-Dairy Policy Data - 2013

							2013						
		Pol		Units									Produce
	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	(
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	C
Sonoma	1	1	0	1	0	15,000	305,100	12,480	5,990	0	0	6,490	C
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

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California: LGM-Dairy Policy Data – 2014

							2014						
		Pol		Units		Î							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

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How do I get it?

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RMA

- 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.



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A Risk Management Agency Fact Sheet

RMA

Program Aid Number 2021

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.

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: http://www3.rma.usda.gov/apps/livestock_reports/ 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: <u>http://www3.rma.usda.gov/tools/agents/</u>

Download Copies from the Web

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

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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 correspond-

Table I. California Fa	rm 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

Table 1. California Farm Example

* 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 330,951 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
1 4010 2.	Cumonina	1 41111	Linumpie	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

* 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 <u>www.rma.usda.gov</u>.

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: <u>future.aae.wisc.edu</u>.

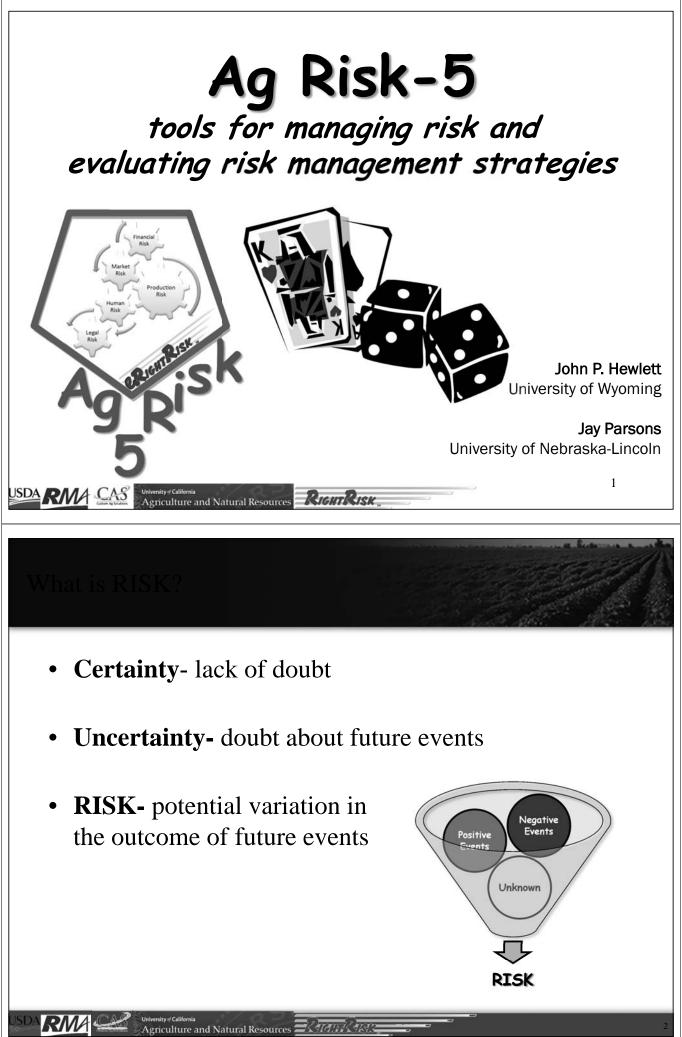
How do I get it?

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.







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What is **RISK**?

• Cost of Loss

- Income

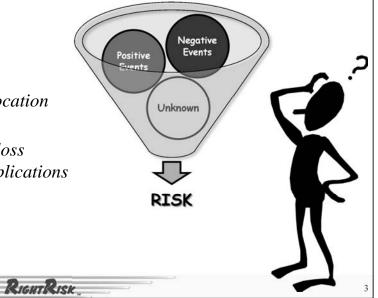
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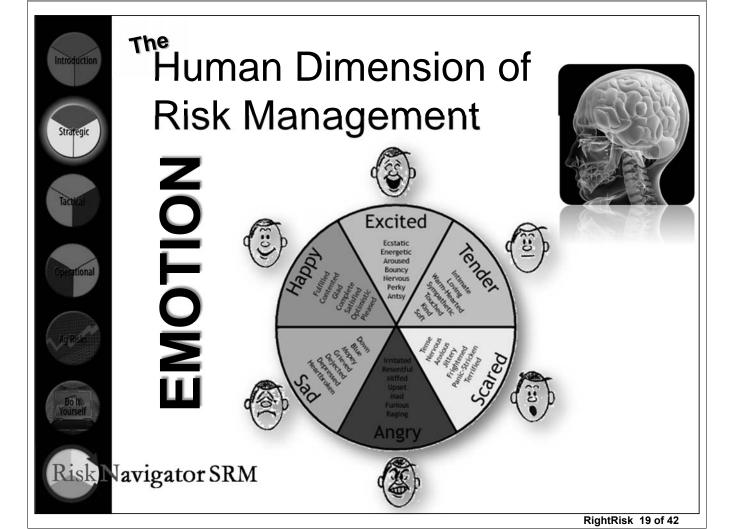
- Resources
- Productive capacity, etc.

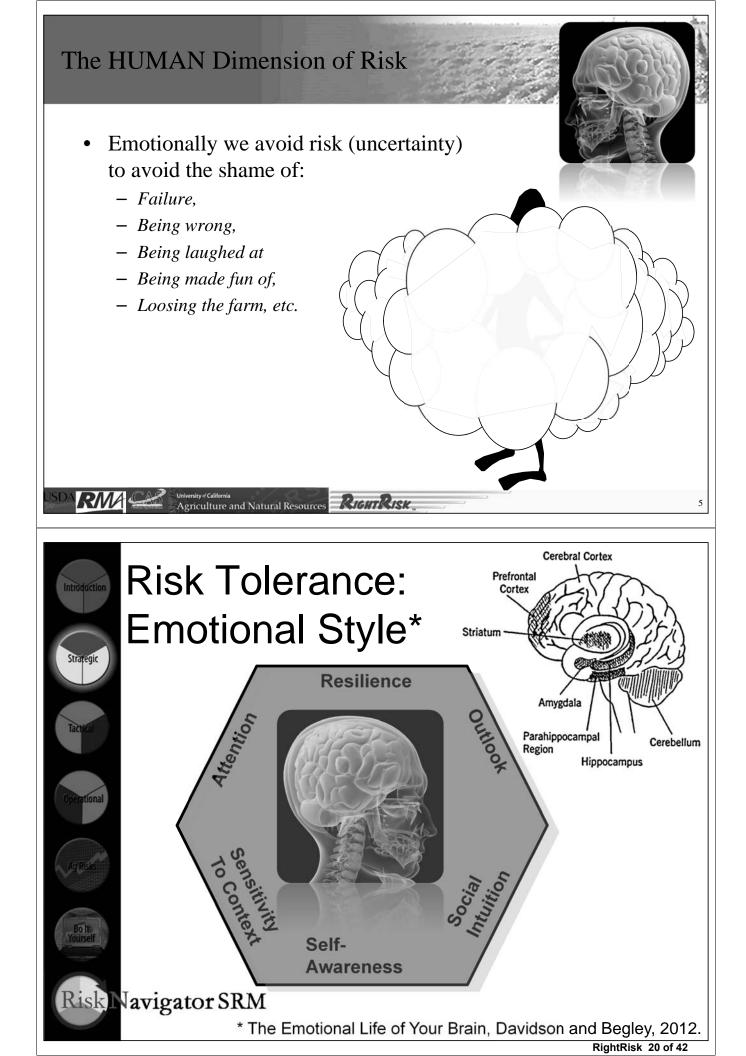
• Cost of Uncertainty

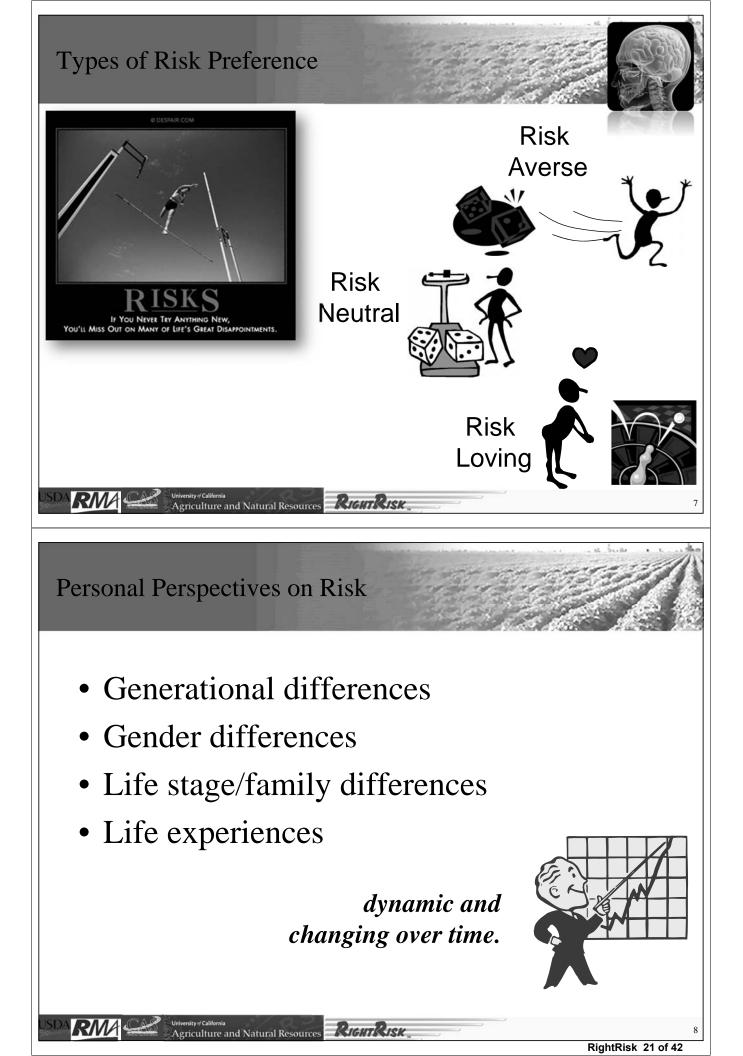
- Worry, doubt, fear, misallocation of resources, etc.
- With potential for gain or loss comes moral or ethical implications

Agriculture and Natural Resources

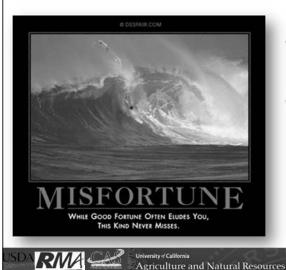








<u>Profits</u> are returns for taking risks



- **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**?

Sources of Risk in Agriculture - *Ag Risk 5*

RIGHTRISK

RIGHTRISK

- 1. Marketing/Price Risk
- 2. Production Risk
- 3. Institutional/Legal Risk

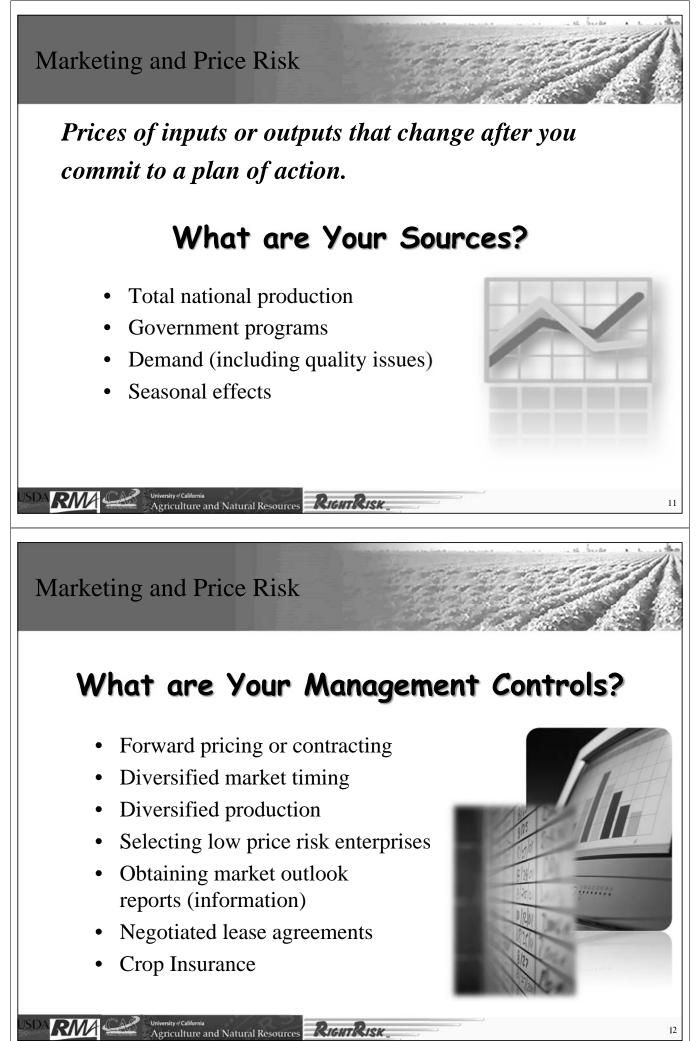
University // California Agriculture and Natural Resources

4. Human Risk

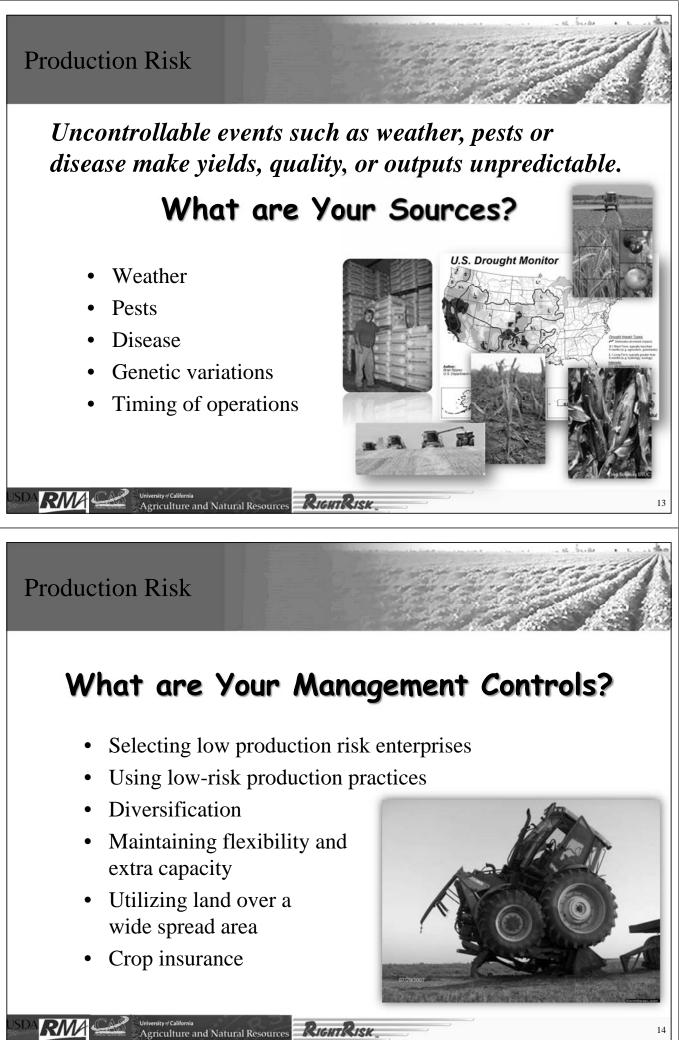
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5. Financial Risk

10



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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

riculture and Natural Resources

Agriculture and Natural Resources



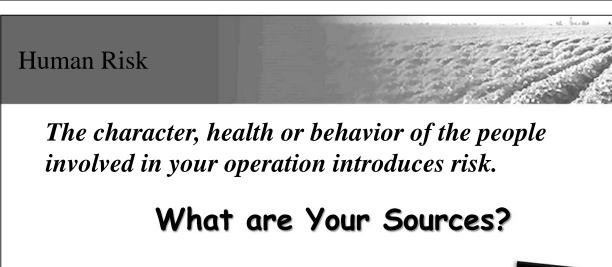
Institutional Risk

What are Your Management Controls?

RIGHTRISK

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





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



Human Risk

What are Your Management Controls?

RIGHTRISK

RIGHTRISK

• A backup management plan

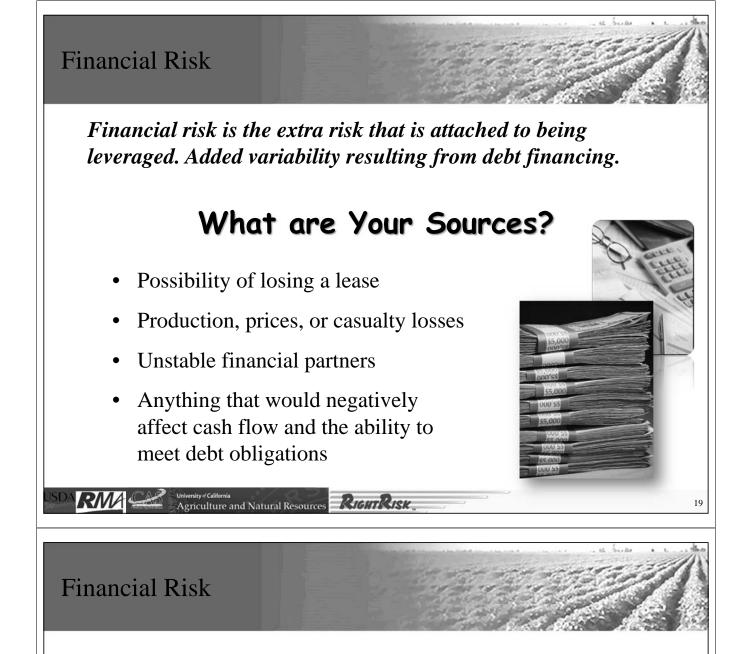
riculture and Natural Resources

- 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

University of California Agriculture and Natural Resources

• A good employee benefit package





What are Your Management Controls?

• Maintaining a financial cushion

Agriculture and Natural Resources

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



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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

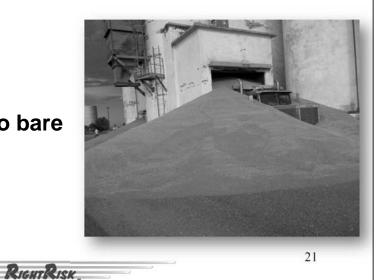
- a) Insurance
- b) Contracting

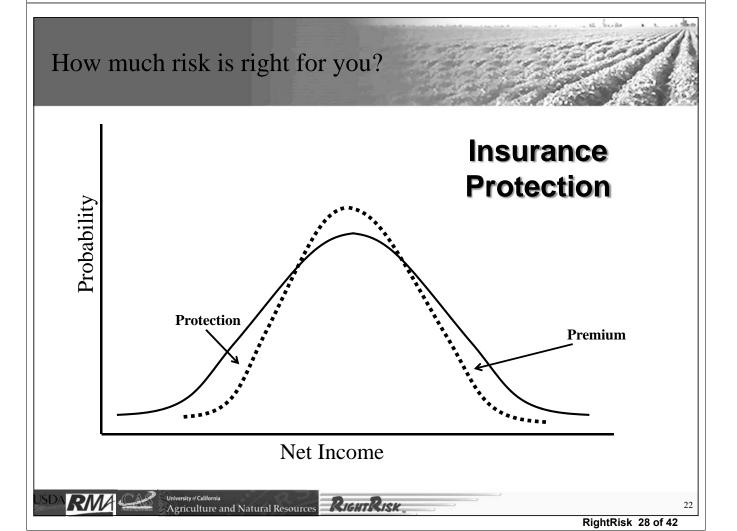
4. Increase capacity to bare

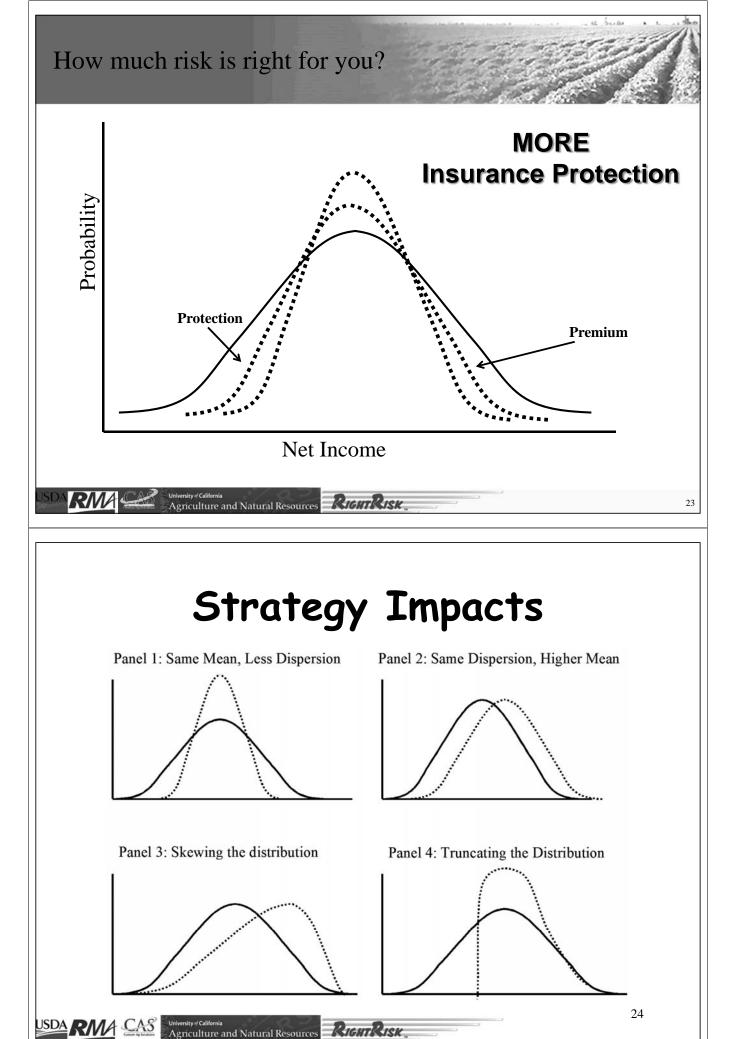
Agriculture and Natural Resources

- a) Increase reserves
- b) Maintain flexibility
- 5. Accept it

USDA RMA CAS







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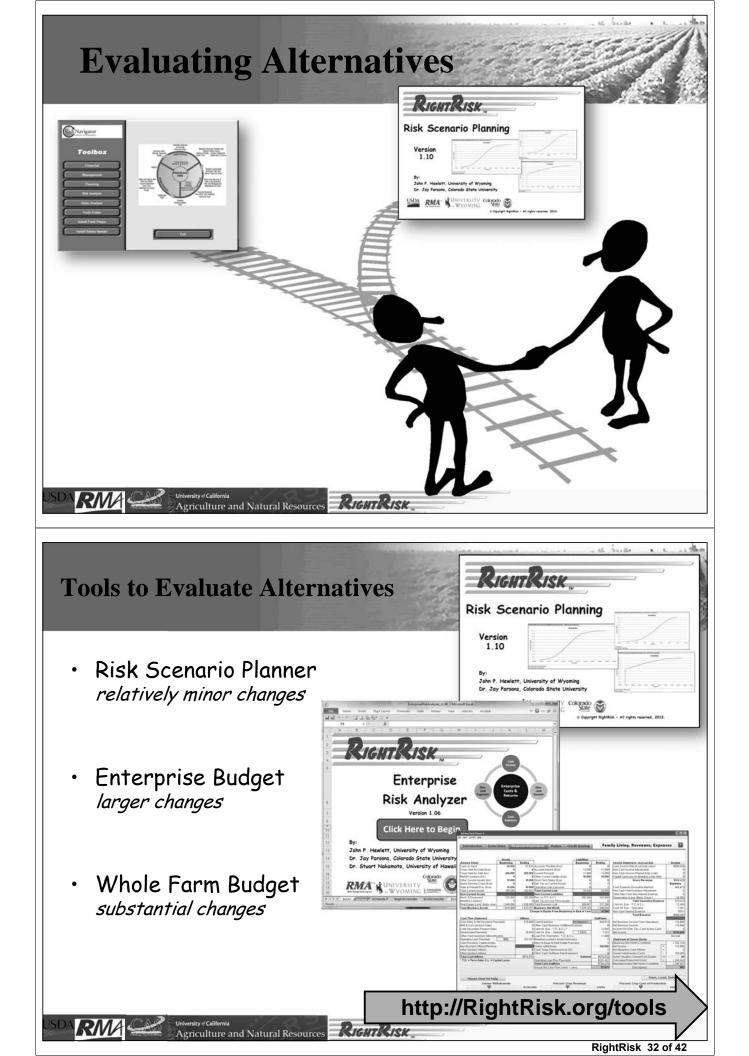
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Davis Regional Office Contact: Just Yaau, Director Contact: Just Yaau, Director Contact: Just Yaau, Director Davis, CA 06016 Phone: (303)722-5693 Fax: (303)722-5693 Western Regional Compliance Office Contact: Susan Chry, Director Address: 430 0 Street Address: 430 0 Street Address: (303)722-6860 Fax: (303)72-6860 Fax: (305)Fax: (305)	Obar Strates Control of the Strates Sector of the Strates Sector of	Liability Program (JAP) Cany (JAP) Lamb ge (Ranfal Indes) County Availabelin Fresso, Kern, Rivers Tutes and Vieturo County, Reveals, 3 Ventra Countes Bors, Conta Costa, Bors, Conta Costa, Strans, Mader, King and Freso Co Strans, Costa, Frans, Al Countes Al Countes Al Costes Al Costes Al Costes Al Costes Al Costes Al Costes Al Costes Al Costes Al Costes Al Costes Costa, Trans. Mader, Neces, Den, Costa, Yoo and Yuba Count	Tesal Del Tesal Del Ce. San Diego. San Josepun. 5 Sectores. an Orego. San Luis Obspo. 5a Freson, Kem, Kings, Motese. 6 Sector Care. 5a Joseptin del Santa Care. 5a Joseptin en Sectores. Turar Course. Santa Care. Santa Santa Co Santa Care. Santa Santa Santa Santa Ca Santa Sa	Ser USARY Sis 227-037	Polic Earn 1999 2000 2001 2002 2003 2004 2005 2006 2006 2006 2006 2006 2006 2006	Ing Net Acr Insure Insure 82500 4.023 28191 4.276 28191 4.276 27958 4.010 27.200 3.920 25.629 3.86 26.5471 3.960 24.659 3.86 24.490 3.732 24.207 3.780 24.074 3.810 24.649 3.752 24.649 3.752 24.649 3.752 24.649 3.752 24.649 4.662 25.642 4.662 25.642 4.662 25.642 4.662 25.470 5.233	res ed Liabilit	G y Pro 258 133 761 142 301 142 302 144 7997 150 521 168 521 168 521 168 521 168 521 169 511 124 511 124 512 199 512 199 511 124 512 199 512 199 5	ITOSS Imium 0.826,215 3.343,081 2,519,840 8.356,279 0,191,677 7,913,694 8.995,411 8.995,411 8.995,411 8.995,411 8.995,411 8.995,411 8.995,411 8.995,920,000 8.3273,227 9.282,609 8.888,972	Constant and a consta	,448 ,680 ,756 ,949 ,135 ,323 ,107 ,031 ,925 ,020 ,054 ,209	atio 1.02 0.64 0.52 0.53 0.53 0.53 0.53 0.53 0.47 0.42 0.43 0.43 0.43 0.43 0.43 0.43 0.43
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Current Federal Insurance Options - Livestock

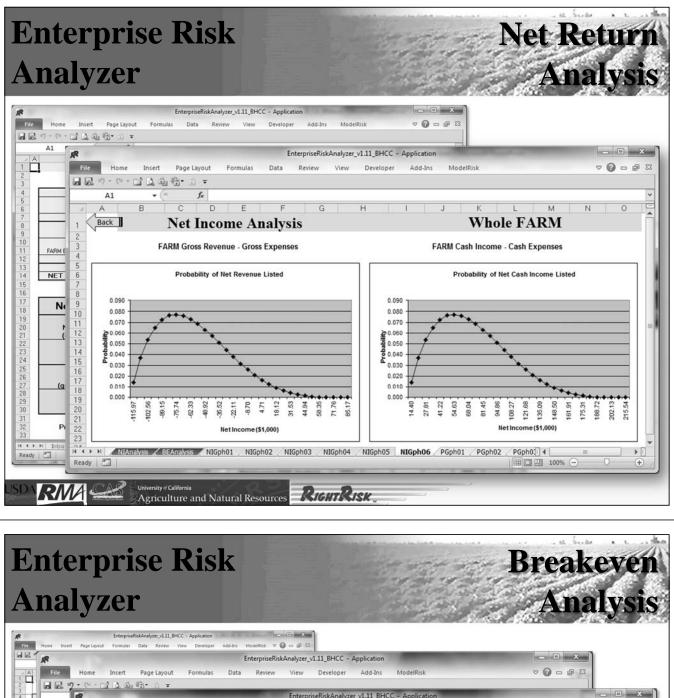
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ALIFORNIA												
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EDER CATTLE MB	LRP	5			6 38	3 36	1,760 46,850	2,108,858 8,971,882	37,607 279,209	4,887 83,137	41,436 1,561,946	
CALIFORNIA Total		74			104	55	4,436,496	97,128,193	2,538,604	1,031,844	2,137,156	
nd Total		74	49	27	104	55	4,436,496	97,128,193	2,538,604	1,031,844	2,137,156	1
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Introduction	R	GHT				-			^			
Introduction Strategic Tactical Operational Ag Risks	Home Prod Home Prod Market Risk - risk associe 1. Uvestock Pr - USDA Associal - USDA Associal	ucts - Cou isk - Produc ted with th ces ral Marketing Ser ral Marketing Ser ral Marketing Ser ral Marketing Ser ral Marketing Ser	urses → Re ction Risk - e uncertain vice: Colorade II vice: Colorade II vice: Colorade II vice: Menthemes vice: Menthemes vice: Colorade II vice: New Mesic vice: Orean II vice: Colorade II vice: Colorade II vice: Colorade II vice: Colorade II vice: New Mesic vice: New Mesic vice: New Mesic vice: New Mesic vice: Colorade II vice: Colorade II vice: Colorade II vice: Colorade II vice: New Mesic vice: New Mes	ssources - Risk C Institution by around i teek/. Summar: a Week/. Summar: a Seed aton and analyte teek/. Summar: a Seed aton and analyte week/. Can Rec about the Seed aton and analyte week/. Can Rec about the Seed aton and analyte week/. Seed aton and analyte week/. See aton and analyte see aton and and and analyte see aton and analyte see ato	Controls nal/Legal Ri: markets an Arg - Cattle (wee ck Auction Summ ics to improve man ect ske Elevator Grain t t t t t t t t t t t t t t t t t t t	sk - Hum d prices white acc relating decision	ople - Spons nan Risk - Fin for inputs and	ancial Risk				

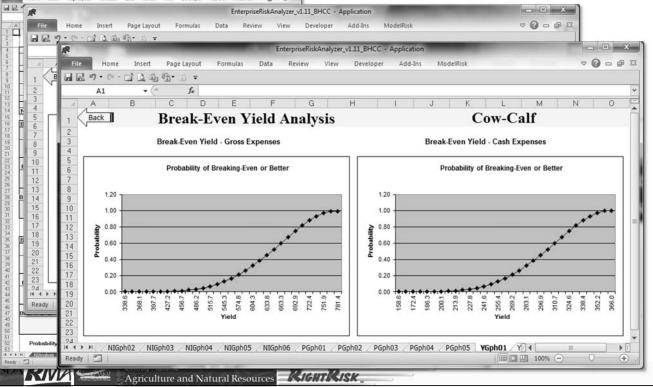
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В	С	D	E	F	Yer	e to Begin
					By: John P. Headath, University	of Wyoning
	Co w -Calf	Native Hay	Oat Hay	Alfalfa Establishment	Dr. Joy Parsens, Colorado S Dr. Shuart Nakamate, Unive	hete University raity of Howall
FARM REVENUE					All and all the second strategies	Ballratan Tranif.
TOTAL FARM INCOME - CASH	121,759.00	12,380.00	2,802.00	2,306.00	25,040.00	-
TOTAL NON-CASH INCOME ADJUSTMENTS					RMA 4	
GROSS FARM REVENUE	121,759.00	12,380.00	2,802.00	2,306.00	25,040.00	
EADLA EXDENCES						
FARM EXPENSES FARM EXPENSES - CASH	86.843.00	6.557.00	1,756.00	2.297.00	12,072.00	
FARM EXPENSES - NON-CASH EXPENSE ADJUSTMENTS	98,550.00	11,245.00	2,709.00	2,297.00	15,331.00	
GROSS FARM EXPENSES	185,393.00	17,802.00	4,465.00	4,833.00	27,403.00	
GROOD FARM EAFENDED	100,000.00	17,002.00	1,105.00	4,000.00	27,100.00	
NET FARM INCOME FROM OPERATIONS	(63,634.00)	(5,422.00)	(1,663.00)	(2,527.00)	(2,363.00)	
Break-Even PRICE Analysis						
				Alfalfa		
YIELD PER ENTERPRISE UNIT	Cow-Calf	Native Hay	Oat Hay		Alfalfa - Baled	
Meximum	400	1.75	4	4	4	
MostLikely	373.97	1.5	3	2.54	3	
Minimum	350	1	1.5	1.5	1.5	
BREAK-EVEN PRICE - CASH EXPENSES	0.50		00.77		00.00	
Minimum	0.59	32.30	33.77	44.17	29.02	
Most Likely Meximum	0.64	37.68 56.53	45.03 90.05	69.56 117.79	38.69 77.38	
maximum	0.00	50.55	50.05	117.75	11.30	
BREAK-EVEN PRICE - GROSS EXPENSES						
Minimum	1.27	87.69	85.87	92.94	65.87	
Most Likely	1.36	102.31	114.49	146.37	87.83	
Meximum	1.45	153.47	228.97	247.85	175.66	
Probability Analysis (click button at right)	Graph	Graph	Graph	Graph	Graph	





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Whole Farm Budget

Introduction Enter Data Financial Statements Ratios Credit Scoring

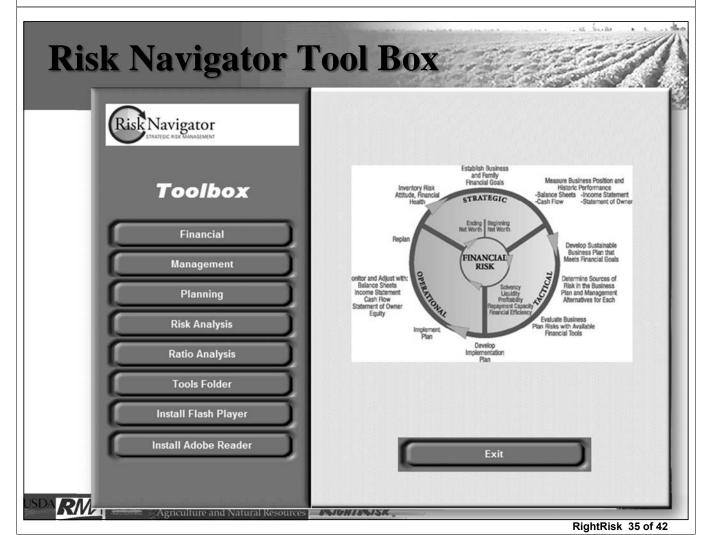
Family Living, Revenues, Expenses

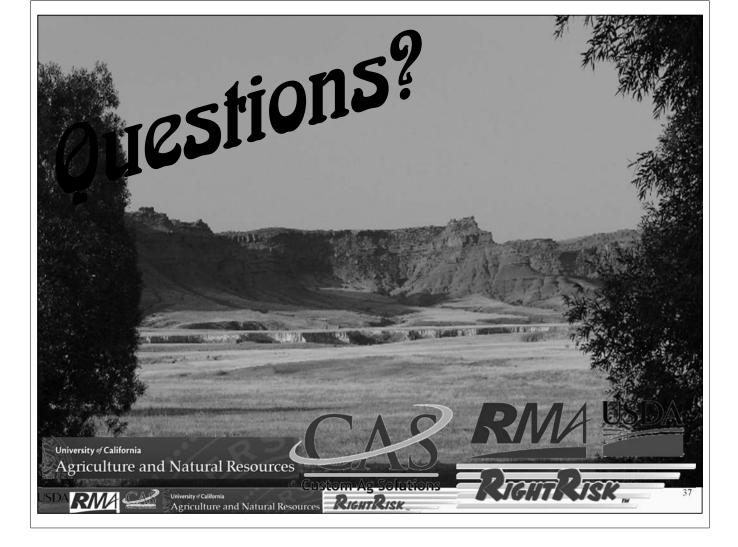
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the beach

View Control	Help		Statement - Accrual Adi. Income come (Net of cull lystk sales) \$554,721
	Family	/ Living, Revenues, Expenses	
ntroduction	Enter Data Financial Statements Ratios Credit Scoring Family	Living, Revenues, Expenses	sh Income (Raised Brda Lystk) 17.500
Off/On	Liquidity	Beginning Ending	Gain/Loss on Breeding Lystk (Net) 140 Gross Revenue \$572.361
10000000000	Current Ratio	7.26 8.2	1 Expense
	Working Capital	\$215,552 \$248,383	3 Interest (Excluding Interest) 425.848
Off/On	Solvency		pn-Cash Non-Interest Expense 0
ALCONTRACTOR OF	Debt/Asset Ratio	0.179 0.172	2 ation (Land, Bidos, Equip.) 65,500 Total Operating Expense 491,348
	Equity/Asset Ratio	0.821 0.825	
	Debt/Equity Ratio	0.22 0.20	L Exp Operating 8.027
0///0-	Profitability	. 0.22 0.200 Endin	in interest coverings
Off/On	Rate of Return on Business Assets	4.96%	8
	Rate of Return on Business Equity	4.907	iness income From Oberabons 47.081
		4.587	ReaD of Tax, Cach & Non-Cach
	Operating Profit Margin Ratio	\$110.89	1me \$47.681
011/0=	Repayment Capacity	\$110,89	ent of Owner Equity
Off/On	Term Debt and Capital Lease Coverage Ratio	2.3	na Net Worth (Cost/Mrkt) 3.548.356
	C MID L IT DUD IN 1	622.40	47.001
Off/On	Financial Efficiency	533,48.	Vithdrawals (Cash) - 50.000
onyon	Accel Tumoun Datio	0.3	8 led Ending Net Worth = 3 546.037
Mouse	Operating Expanse Patio	0.7	d Ending Net Worth (Cost/Mrkt) 3.546.037
Over to	Depreciation Expense Ratio	0.0	Discrepancy S0
see Ratio Formulas.	Interest Expense Ratio	0.0	3
	Nat Form Income From Operations Patio		Save, Load, Delete
	Check Su		rcent Crop Cost of Production
		Save, Load, I	Delete 100%
Mouse Over	wner Withdrawals Percent Crop Revenue	Percent Crop Cost of Production	ent Livestock Cost of Production
	\$100,000 Fercent clop kevence 100%		100%
	onform Inflows #1 Percent Livestock Revenue	Percent Livestock Cost of Production	
Yneperper	\$0 · · · · • • 100%	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	100%
-	onfarm Inflows #2 Percent Operating Expenses Borrowed	Percent Government Payments)ff/On Income Tax Off/On
Antonio	10010010010010010010000000000000000000		100%
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-11/2	Agriculture and Natural Resources		





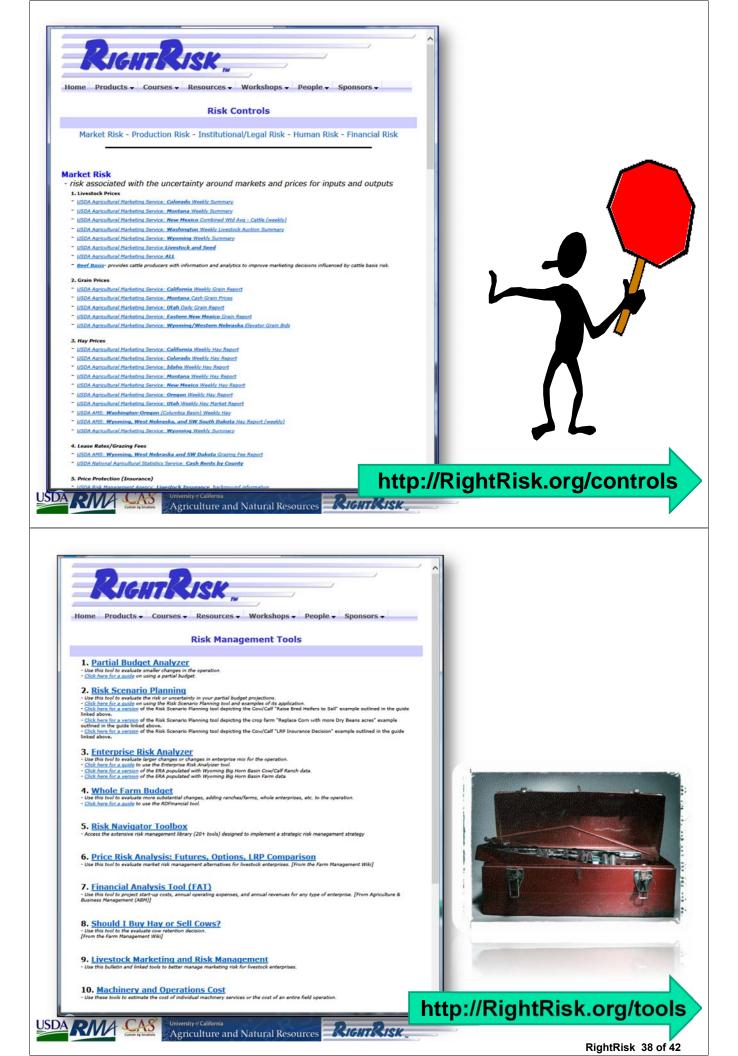
Statewide Cost Comparison Summary

				-	0 11	0010	
All costs: per cow per month, unless noted	2012	North Coast	North Valley	South Valley	Southern California	2013	Percent
Number of Herds	Average 126	12	60	38	California 4	Average 114	Change
Feed Costs	120	12	00	50	4	114	
a. Dry Roughage	\$48.39	\$61.48	\$43.13	\$50.07	\$53.20	\$48.16	-0.5%
b. Wet Feed & Wet Roughage	\$44.02	\$20.64	\$50.65	\$44.28	\$39.16	\$46.06	
c. Concentrates	\$111.99	\$95.72	\$108.40	\$120.02	\$124.27	\$115.16	2.8%
d. Minerals & Supplements	\$9.10	\$1.67	\$9.62	\$7.68	\$3.73	\$8.05	-11.5%
e. Pasture	\$1.45	\$41.07	\$1.91	\$0.00	\$0.00	\$1.55	7.3%
Total Feed Costs	\$214.95	\$220.58	\$213.70	\$222.05	\$220.37	\$218.99	1.9%
Total Feed Costs (\$/cwt.)	\$11.48	\$16.03	\$11.16	\$11.61	\$11.53		-0.1%
Total Feed Costs (% of total cost)	65.3%	68.0%	64.0%	67.2%	68.2%	66.0%	
Total Hired Labor	\$28.47	\$36.18	\$32.38	\$26.36	\$27.24	\$28.96	1.7%
Total Hired Labor Costs (\$/cwt.)	\$1.52	\$2.63	\$1.69	\$1.38	\$1.43	\$1.52	-0.3%
Total Labor Costs (% of total cost)	8.7%	11.1%	9.7%	8.0%	8.4%	8.7%	
Total Herd Replacement	\$23.14	\$13.49	\$20.47	\$21.46	\$15.56	\$20.73	-10.4%
Total Replacement Costs (\$/cwt.)	\$1.24	\$0.98	\$1.07	\$1.12	\$0.81	\$1.08	
Total Replacement Costs (% of total cost)	7.0%	4.2%	6.1%	6.5%	4.8%	6.2%	/-
Operating Costs							
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	\$7.47	\$9.93	-0.9%
c. Veterinary & Medicine	\$7.02	\$3.34	\$7.55	\$7.57	\$6.10		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	\$5.09	\$8.23	\$6.33	-0.5%
f. Miscellaneous	\$1.28	\$1.52	\$1.52	\$1.36	\$1.53	\$1.41	10.3%
g. Bedding & Manure Haul	\$1.10	\$1.86	\$1.14	\$0.72	\$3.27	\$0.98	-10.6%
h. Fuel & Oil	\$4.05	\$5.31	\$4.10	\$3.78	\$1.97	\$3.86	
i. Interest Expense	\$1.24	\$0.37	\$0.81	\$1.68	\$1.25	\$1.33	7.2%
j. R E Lease Expense	\$4.81	\$1.15	\$5.19	\$5.48	\$5.57	\$5.43	13.0%
k. Depreciation	\$5.34	\$5.15	\$5.75	\$4.49	\$1.00	\$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	\$0.63	\$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		-0.7%
Milk Production Data	φ13.00	φ20.00	ψ10.5 4	ψ10.0 2	ψ10.00	ψ10.50	-0.170
a. Milk Sold/Total Cow/Month/ (cwt.)	18.73	12 76	19.14	19.13	10 10	10 11	2.0%
b. Lbs Milk Sold/milk cow/day	71.03	13.76 52.89	72.63	72.24	19.10 72.11	19.11 72.18	
f. Income Over Feed Cost (\$/cwt.)	\$5.45	52.89 \$9.86	72.03 \$8.16	72.24 \$6.68	72.11 \$7.31	72.18 \$7.38	
g. Fat Test %	ە5.45 3.82%	\$9.86 3.87%	۵.16 3.93%	٥٥.68 3.80%	\$7.31 3.69%	\$7.38 3.83%	33.0%
h. SNF Test %	3.82% 8.91%	3.87% 8.84%	3.93% 8.97%	3.80% 8.94%	3.69% 8.91%	3.83% 8.95%	
Related Data	0.91%	0.04%	0.9170	0.94%	0.91%	0.90%	
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 (\$/cow/day)	۶۲.67 \$10.82	7.82 \$14.79	۵7.64 \$10.52	۶۲.93 \$10.97	۵۵. ۶۲ \$10.88	۶۲.۵۱ \$10.85	
I. Total Cows	۵10.82 1,355	۵14.79 279	۶10.52 1,204	\$10.97 1,930	510.88 1,161	\$10.85 1,360	
							0.4%
Milk Volume Percentages ¹	100.00%	2.15%	37.73%	54.20%	5.92%	100.00%	

Statewide Cost Comparison Summary, 2013

¹ Weighted average computed based on 2013 milk volume percentages.

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



Risk Management Profiles

RIGHTRISK

RIGHTRISK

RIGHTRIS

RIGHTRISK

USDA



4.

coverage.

5. Insure against drought using Non-insured Crop Disaster Assistance Program (NAP)

Premium/acre	Indemnity/ acre	Total indemnity	Total cost/ acre	
\$0.28	\$0.00			
\$0,58		\$0	\$980	
\$9.15	\$6.51	\$35,805	\$3,190	
	\$57.27	\$11,454		
	Total	\$47,259	\$1,830	
		947,259	\$6,000	



RMA

Agriculture and Natural Resources

http://RightRisk.org > Courses

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RIGHTRISK NEWS

DATES TO REMEMBER

KIGHTKISK.

• 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.

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.

Supplemental Coverage Option

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

R 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

have bases have have

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.

