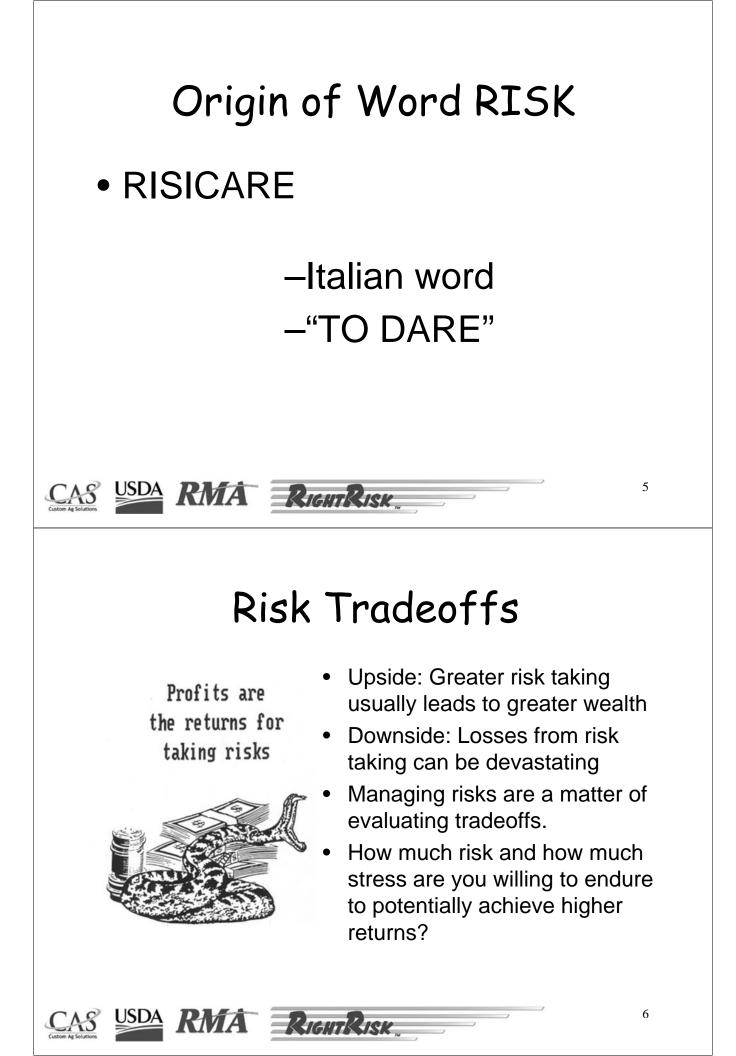
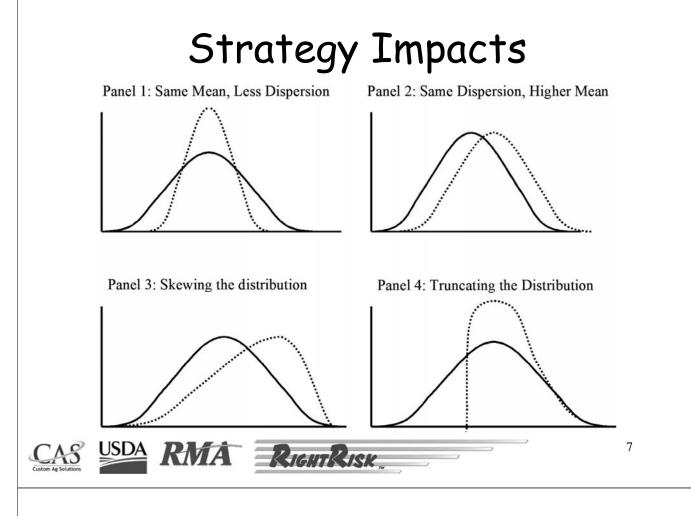


## Strategies for Managing Risk

- 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. Build your internal capacity to bear
  - a) Increase reserves
  - b) Maintain flexibility
- 5. Accept it







Insurable Crops	Insured Acres	Total Acres	Percent Insured
Alfalfa Seed	11,795	38,280	339
Almonds	721,275	860,000	849
Apples	5,582	15,200	379
Avocados	36,130	55,261	65
Barley	38,635	95,000	419
Blueberries	3,771	4,542	839
Chemies	29,083	40,414	72
Citrus – 8 types of fruit	229,451	270,000	859
Corn	184,830	430,000	43
Cotton & ELS Cotton	309,372	315,000	98
Beans (Dry)	25,972	47,500	559
Figs	4,076	7,351	555
Forage Production	144,193	930,000	164
Grapes (Table)	81,427	95,000	869
Grapes (Wine)	498,428	570,000	879
Grain Sorghum	3,328	4,570	73
Mint	1,641	2,000	829
Oats	3,624	10,000	389
Olives	25,557	42,779	604
Onions Pears	19,570	43,900 11,600	459
Pecans	1.370	3,600	38
Piecans Pistachios	90.097	203.000	44
Potatoes	23.680	33,500	719
Prunes	45.972	50.000	92
Rice	478.856	495.000	97
Rice (Cultivated Wild)	12,444	13.000	96
Saffower	35.268	55.000	64
Stonefruit (Includes Plums)	70,125	102.073	69
Strawberries	28	41,500	19
Sugar Beets	4,454	24,500	18
Tomatoes (Fresh)	11.313	28,000	40
Tomatoes (Processing)	278.058	288.000	97
Walnuts	148,497	290.000	519
Wheat	271.829	585.000	48
Dollar Liability Program			ollar Liability
Adjusted Gross Revenue			\$35,427,45
Apiculture (Rainfall Index)			\$28,811,52
Forage Seeding			\$2,288,71
Livestock Gross Margin (LGM) Dairy			\$58,023,16
Livestock Risk Protection (LRP) Feeder Cattle and Lamb			\$11,994,51
Nursery			\$140,832,24
Pasture, Rangeland, Forage (Rainfall Index)			\$41,605,16
Raisins			\$198,617,34

#### http://www.rma.usda.gov

USDA RMA RIGHTRISK

Crop Pilot Programs		
Program	County Availability	
Adjusted Gross Revenue	Fresno, Kem, Riverside, San Diego, San Joaquin, San Luis Obisp Tulare, and Ventura Counties	
Apiculture (Rainfall Index)	All Counties	
Avocados	Orange, Riverside, San Diego, San Luis Obispo, Santa Barbara, an Ventura Counties	
Chemies	Butte, Contra Costa, Fresno, Kern, Kings, Madera, Merced, Placer, Sacramento, San Benito, Santa Clara, San Joaquin, Stanislaus, Sutter, Tulare, and Yuba Counties	
Forage (Alfalfa) Seed	Kings and Fresho Counties	
Strawberries	Fresno, Merced, Monterey, Santa Barbara, Santa Cruz, and Ventur Counties	
Citrus Dollar (Navels)	Fresno, Kem, Madera, and Tulare Counties	
PRF (Rainfall Index)	All Counties	
Olives	Butte, Colusa, Fresno, Glenn, Tehama, Kem, Madera, San Joaquir Shasta, Stanislaus, Sutter, Tulare, Yolo	
Pistachios	Alameda, Butte, Colusa, Contra Costa, Fresno, Gienn, Kern, Kings, Madera, Merced, Riverside, San Benito, San Bernardino, San Joaquin, San Luis Obispo, Santa Barbara, Stanislaus, Sutter, Tehama, Tulare, Yolo, Yuba Countes	



## Whole-Farm Revenue Protection

- A whole-farm insurance product that provides producers with risk management protection for all eligible commodities on the farm under one arm Revenue Protection Pilot Area insurance policy
- WFRP is a combination of **Adjusted Gross Revenue** (AGR) and Adjusted Gross Revenue-Lite (AGR-Lite) policies

Whole-Farm Revenue Protection cont.

WFRP Pilot Are

Coverage is based on:

CAS USDA RMA RIGHTRISK

- The operation's whole-farm historic average revenue and expenses using information from five consecutive tax years before the insurance year (adjusted according to the WFRP policy and procedures)
- An indemnity payment occurs when:
  - Allowable Revenue during the insurance year falls below the Insured Revenue (the amount of revenue the farm operation is expected to earn during the insurance year multiplied by the coverage level elected)







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



12



### Noninsured Crop Disaster Assistance Program (NAP): ELIGIBLE crops

- ELIGIBLE CROPS:
  - Any commercial agricultural crop (excluding livestock and their by-products), commodity, or acreage of a commodity grown for food or fiber, and commercial or industrial crops for which CAT or additional coverage is not available
  - Biomass crops or feedstock crop grown for purpose of producing bio-based product

### • CROPS <u>NOT</u> ELIGIBLE:

- Where CAT or additional level of insurance coverage <u>IS</u> available
- Where Group Risk Protection insurance <u>IS</u> available



#### Noninsured Crop Disaster Assistance Program (NAP): Coverage Summary

- NAP available for 2015 through 2018 crop years:
  - CAT-level coverage 50/55, and
  - Buy-up coverage
    - 50, 55, 60 or 65 percent coverage at 100 percent of the established market price
- Protects against eligible causes of loss during the coverage period before or during harvest: drought, hail, excessive moisture, freeze, tornado, hurricane, excessive wind, insufficient chill hours (limited), earthquake, flood, volcanic eruption
- Market price established by FSA as an *average* market price for the eligible crop



### Noninsured Crop Disaster Assistance Program (NAP): Coverage Updates

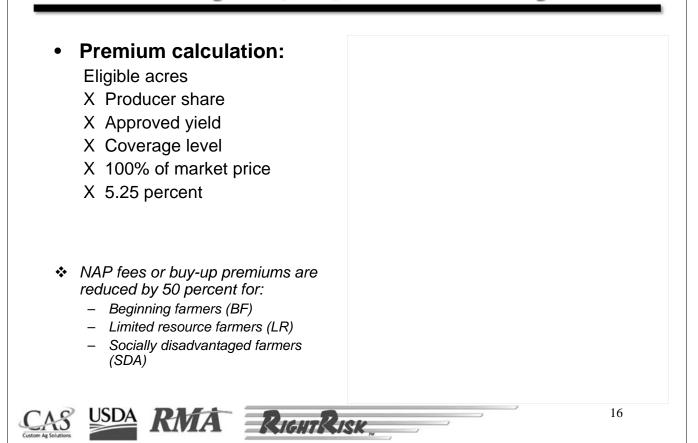
- Organic Crop Option
  - May receive payment based on an organic price if
    - RMA has established a separate organic price in the State
    - Producers elect the organic option on CCC-471
    - Acreage is certified organic or exempt from certification according to the National Organic Program regulations
    - A copy of organic system plan provided to FSA
- Direct Market Price Option
  - May receive payment based on an direct market price if
    - Buy-up coverage is elected with direct market price option

15

• Sufficient data is available for FSA to approve separate average market prices within a State



#### Noninsured Crop Disaster Assistance Program (NAP): BUY-UP Coverage cont.



# **Payment Limits**

- <u>NO</u> person or legal entity, may receive directly or indirectly more than:
  - \$125,000 total in payments under LFP, LIP, and ELAP combined
  - \$125,000 total in payments under NAP
  - \$125,000 total in payments under TAP
- An individual or legal entity is **ineligible** for payments where average adjusted gross income (AGI) exceeds \$900,000
- A producer may receive benefits under a buy-up policy for crop insurance and LFP/LIP/ELAP/NAP/TAP, but combined benefits may not exceed the loss





## **Production Risk**

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

### What are Your Management Controls?

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





17







# Marketing and Price Risk

Prices of inputs or outputs change after you commit to a

plan of action.

## 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



## Institutional Risk

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

## What are Your Management Controls?

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





## Human Risk

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

## What are Your Management Controls?

- Maintain a good employee benefit package and relationship plan
- A plan to deal with the possible loss of a key employee(s)
- A backup management plan

USDA RMA RIGHTRISK

- Maintaining good health and life insurance plans
- Establishing and maintain estate plans



21





Financial risk is the extra risk that is attached to being leveraged. It's the added variability that results from financial obligations associated with debt financing.

## 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





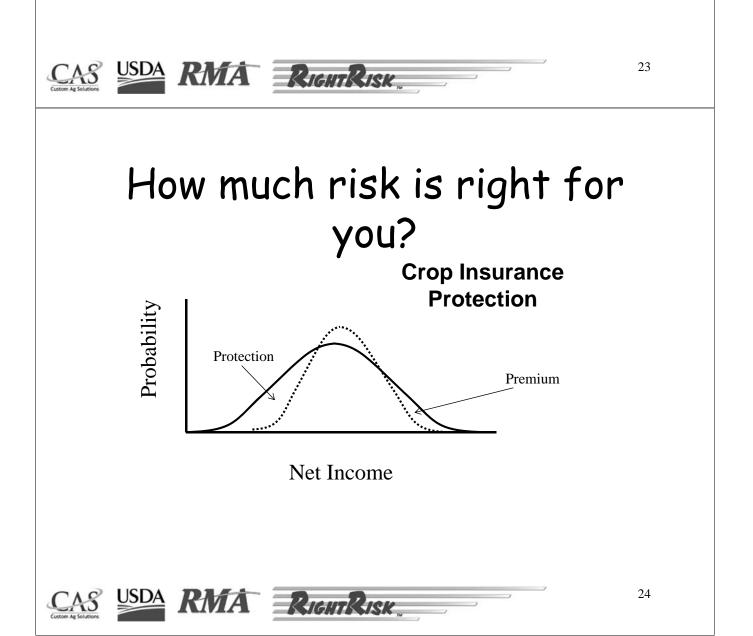


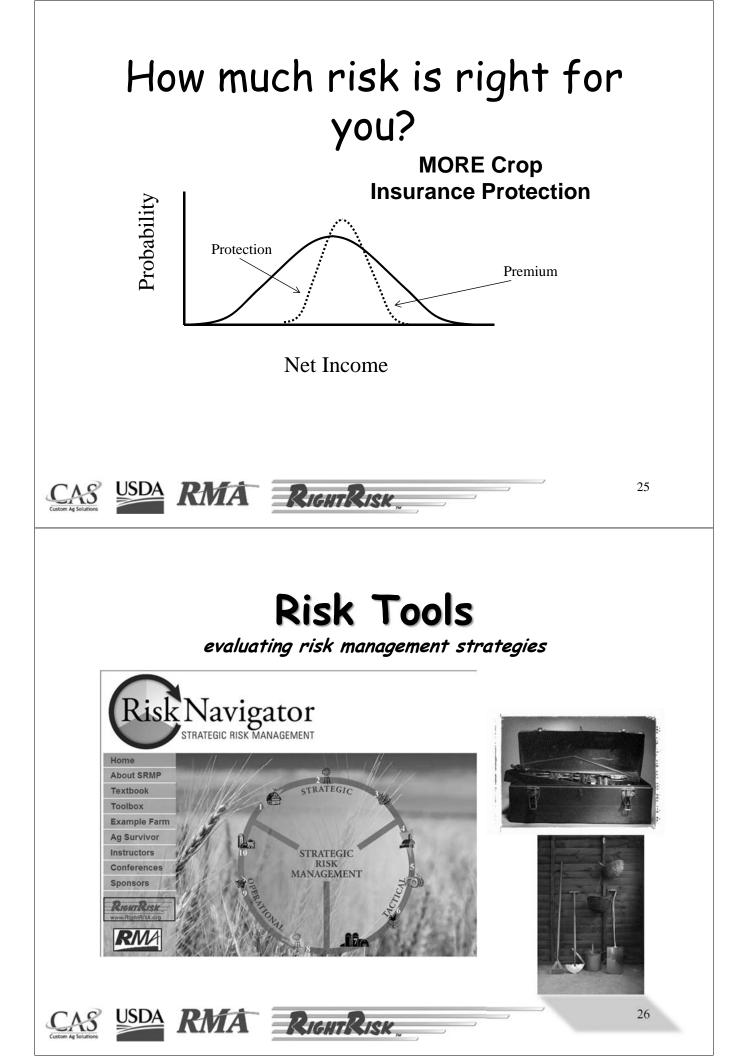


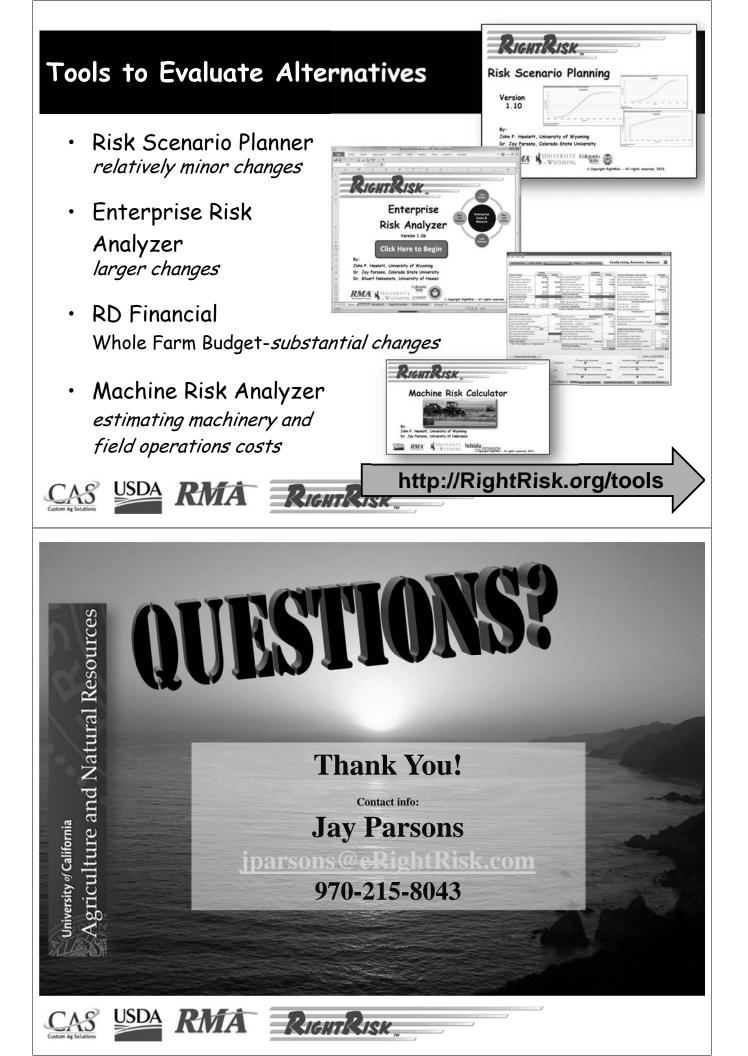
## Personal Perspectives on Risk

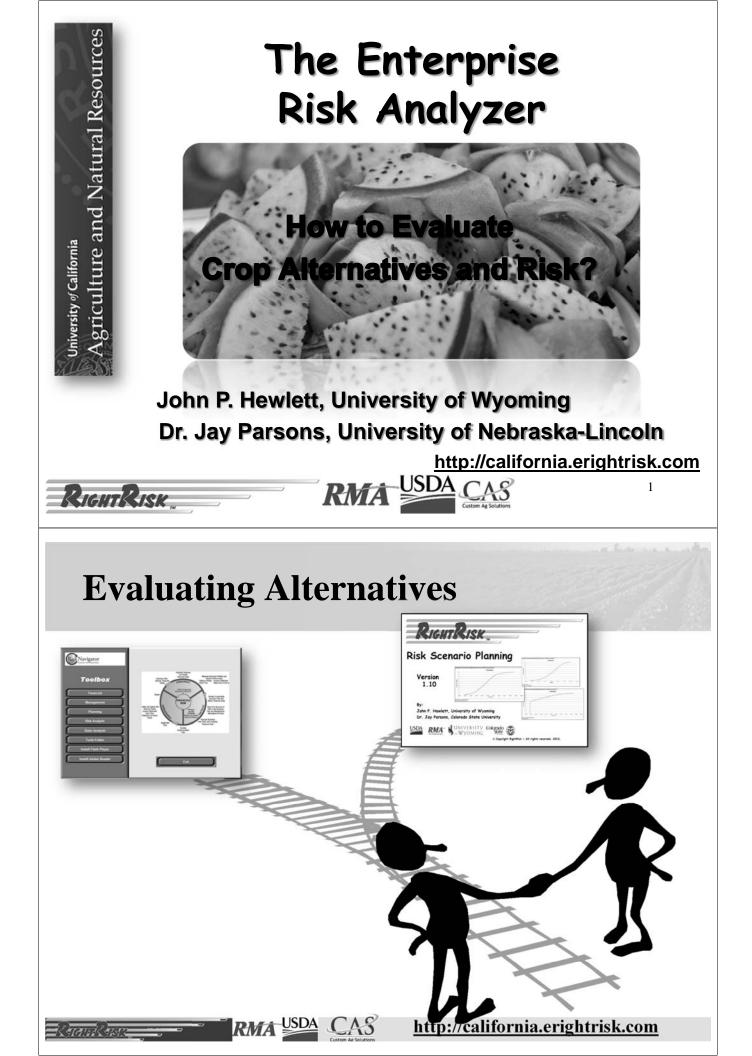
- Generational differences
- Gender differences
- Life stage/family differences
- Life experiences

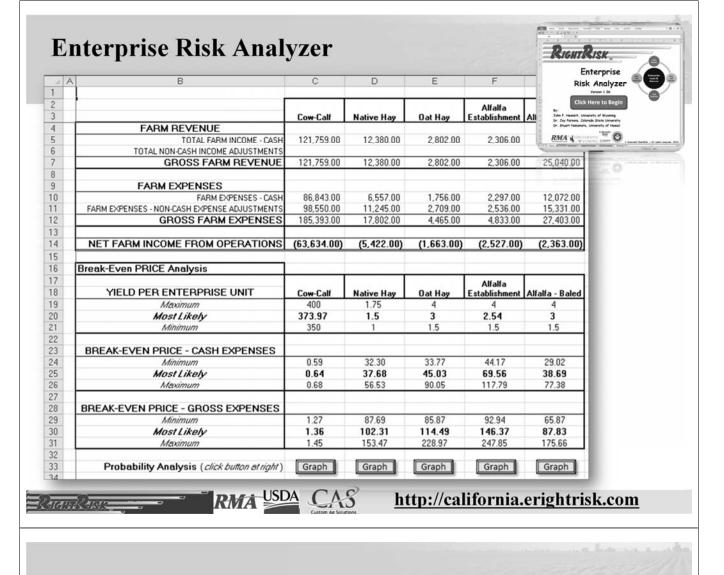
These are dynamic and change over time.



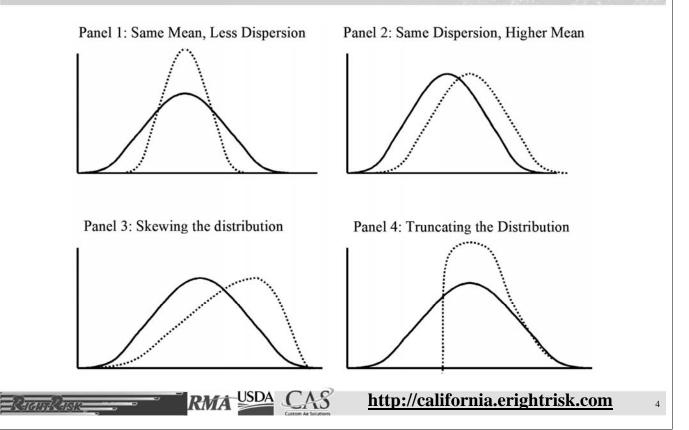


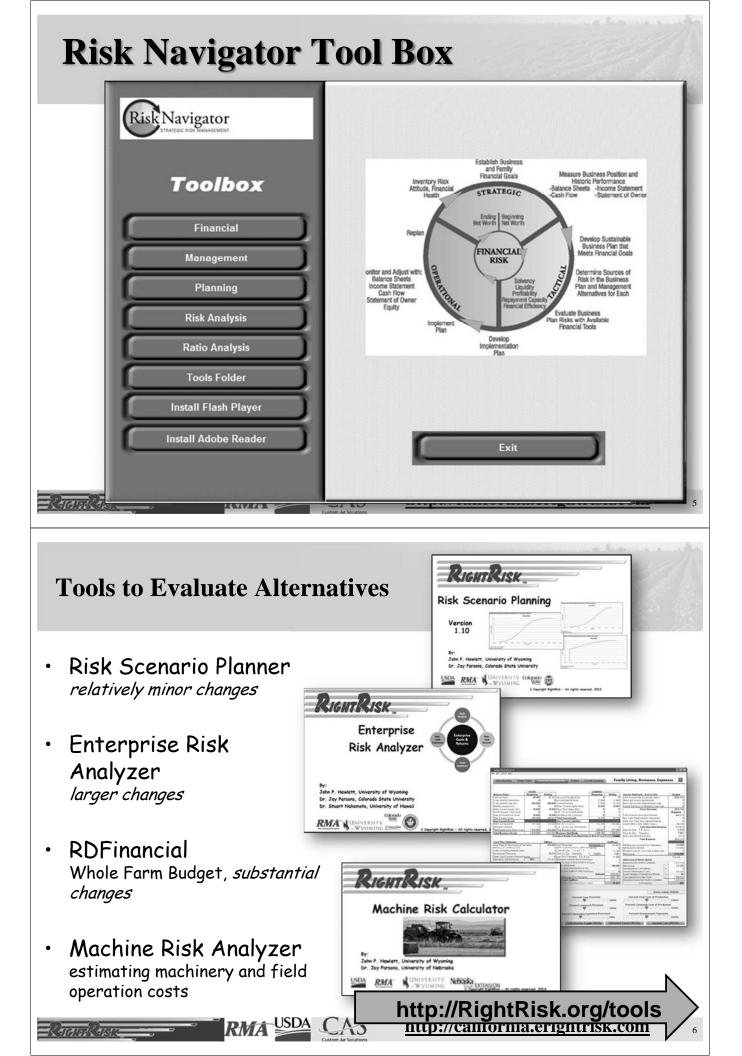






#### Strategy Impacts







#### **Risk Management Profiles**



