Farm and Ag Risk Management

Our Session Today

- What is Risk Management
- What is Risk
- Types of Risk
- A brief history of RM
- The RM Process
- RM "Rules"
- Discussion Points With Clients
- Session Recap

Risk Management

What is your definition?

 What do you mean when you tell your prospect/client that you want to take a look at their operation utilizing a Risk Management approach?

What do they expect you to do or think you mean?

Risk Management - Defined

"Risk Management is a <u>scientific approach</u> to dealing with <u>pure risks</u> by anticipating possible accidental losses and designing and implementing procedures that minimize the occurrence of loss or the <u>financial impact</u> of the losses that do occur."

Fundamentals of Risk and Insurance

Emmett J. Vaughan

Therese Vaughan

When You Were a Child...

- Parents taught you
 - Don't run with scissors
 - The stove is hot
 - Wet paint
 - Treat every gun as loaded
- Sports taught you
 - Skateboarding helmets & pads
 - Batting helmets soccer shin guards protective padding of all sorts

Ben Franklin

A stitch in time saves nine

He that lives upon hope, dies fasting

• Don't throw stones at your neighbors, if your own windows are glass

No gains without pains

Haste makes waste

Why Study RM?

We need an established basis for:

- Protecting one's person and assets
- Managing one's business

We need a specific and defined process which one can use to arrive at a set standard of practices to avoid, transfer, maintain, retain, share RISK.

SO...What Is Risk

A condition of human existence

- Uncertainty about an outcome
 - Could be a favorable outcome
 - Could be an unfavorable outcome
- Risk in insurance =
 - A peril insured against
 - Person/property protected by insurance

What Is Risk

Loss and Indeterminate Outcome

- Loss
 - If we know for certain that a loss will occur, then there is no risk
- Indeterminate Outcome
 - At least two outcomes one of which is not favorable

What Is Risk - Defined

Uncertainty concerning the occurrence of a loss

Principles Of Risk Management and Insurance

George E. Rejda

• A condition in which there is a possibility of an adverse deviation from a desired outcome that is expected or hoped for.

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What Is Risk?

A condition of the human existence

Uncertainty of outcomes

Loss & Indeterminate Outcomes

Adverse deviation from desired outcomes

Types Of Risk

• Financial vs. Non-Financial

• Static vs. Dynamic

• Fundamental vs. Particular

• Pure vs. Speculative

Financial vs. Non-Financial

• Since *RISK* in its broadest sense includes all situations in which there is an exposure to adversity almost all losses will have some financial impact

 But that financial impact may be considered negligible or incidental by the client and so could be categorized as Non-Financial

Static vs. Dynamic

• Dynamic Risks – those resulting from changes in the economy

 Static Risks – losses that would occur, even in the absence of any economic changes

Fundamental vs. Particular

 Fundamental Risks – one that affects the entire economy and/or large numbers of persons or groups

 Particular Risks – one that affects a particular individual(s) and not the entire community

Pure vs. Speculative

 Pure Risk – situations wherein there are ONLY the possibilities of loss or no loss

 Speculative Risk – situations in which either a profit or a loss is possible

Uncertainty vs. Risk

- Distinction between the two terms
 - Uncertainty = a state of mind characterized by doubt
 - Difference between certainty & uncertainty
 - Risk = a condition or combination of circumstances in which there is a possibility of loss – this then creates "uncertainty" when the actual risk is recognized

Degrees of Risk

- More Risk vs. Less Risk
- Actuarially speaking Your probability of death:
 - At age 52 is approximately 1%
 - At age 79 is approximately 10%
 - At age 97 is approximately 50%

At age 79 we would view the "risk" of death as greater than that at age 59 but less than that at age 97

Russian Roulette & Risk

• Two bullets vs. one, where is there more risk?

• Four vs. three, where is there more risk?

• Six vs. five, wherein is the risk?

Russian Roulette

Outcomes – Certainty – Risk

• 0 Bullets = ONLY one outcome (favorable) ergo NO uncertainty and NO risk

 6 bullets = ONLY one outcome (unfavorable) ergo NO uncertainty and NO risk

• 3 bullets = greatest uncertainty & greatest variable for two different outcomes

Risk vs. Perils vs. Hazards

- Oftentimes used interchangeably, RISK as previously defined is:
- Uncertainty concerning the occurrence of a loss

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Risk vs. Perils vs. Hazards

 Risks = conditions or circumstances in which there is a possibility of loss – this then creates the uncertainty when the actual risk is determined

- Perils = a cause(s) of loss
- Hazards = conditions that may create or increase the chance of loss arising from a given peril
 - Physical
 - Moral
 - Morale

A Brief History

- Generally used first in 1950's in an article in the *Harvard Business Review* (1956)
 - Referred therein as a determination that someone within an organization should be responsible for "managing" the pure risks of the organization
 - Many at this time already had on staff an "insurance manager"

A Brief History

Initial attempts were managing the purchase of insurance to deal with risk

- Shift to actual Management of Risk probably due to:
 - Development and growth of decision theory
 - Cost/benefit analysis
 - Expected Values

Defining It Better

3 Separate Specialties

Decision Theory

Risk Control

Risk Financing

Decision Theory

- Made up of four distinct elements
 - Acts
 - Events
 - Outcomes
 - Payoffs

Risk Control

• The techniques used to minimize – at the least possible costs – those risks to which the organization is exposed.

Comprised of two parts:

Risk Avoidance

Risk Reduction

Risk Control; i.e. Avoidance

- Normally used only in instances where exposure has catastrophic potential and the risk cannot be transferred or reduced
- Essentially the last resort to be used
- Otherwise a firm may not be able to attain its primary objectives
- Used when both frequency & severity are determined to be too high & cannot be reduced

Risk Control; i.e. Reduction

- Consists of all techniques used to reduce the likelihood of loss or the severity of those losses that will occur
- Loss Prevention & Loss Control live here
- Two different approaches therein:
 - The engineering approach
 - The human behavior approach

Risk Financing

 The techniques used focus on arrangements designed to guarantee the availability of funds to meet losses that do occur

Comprised of two parts

Risk Retention

Risk Transfer

Risk Financing; i.e. Retention

- Most commonly used
- May be conscious or unconscious
- If nothing is done, then it is **retained** risk
- May be voluntary or involuntary
 - Voluntary is a decision to retain rather than to avoid or transfer it
 - Involuntary is when it is not possible to avoid, reduce or transfer to another...uninsurable risks

Risk Financing; i.e. Transfer

Purchase of insurance contracts

Hedging

- Contractual agreements
 - Hold Harmless
 - Subcontracting

RM as a Business Tool

Better Insurance purchasing

• Transfer vs. Retention & cost effectiveness

Reduced expenses through loss control

Loss prevention

RM As A Business Tool

Different than insurance management

• RM is broader as it deals with insurable and uninsurable risks and the application of the appropriate techniques to manage both

 The Risk Manager asks..."which risks must I insure" rather than "which risks should I retain?"

RM's Contribution To Business

 Managing pure risks so the organization can afford to pursue all of its other goals

- Helps to control the costs of the organization
 - Better Insurance purchasing
 - Transfer vs. retention & cost effectiveness
 - Reduce expenses through risk control
 - Loss prevention

The RM Process

The Risk Management Process

- Determination of objectives
- Identification of risks
- Evaluation of risks
- Alternatives and selecting the risk treatment
- Implementing the decision
- Evaluation and review (monitoring)

Determine The Objectives

What does your insured want POST LOSS?

What does your insured want PRE LOSS?

Determination Of Objectives - What Is It That Management Wants From Its Risk Management Program?

- Post Loss
 - Survival
 - Continuity
 - Earnings stability
 - Continued growth
 - Social responsibility
 - Others?

Pre Loss

- Economy
- Reduction in anxiety
- Meeting externally imposed obligations
- Social responsibility
- Others?

Identification of Risks - Tools

- Get as thorough an understanding of the business as possible using:
 - On site visits
 - Analysis of documents
 - Flow charts
 - Internal communication
 - Questionnaires
 - Exposure checklists
 - Insurance policy checklists
 - Others?

Evaluation of Risks

 Relative Rankings include their importance based upon severity wherein ALL losses that would represent financial catastrophe are ranked the same. We would want to consider:

- Critical Risks
- Important Risks
- Unimportant Risks

Alternatives In Treatment

 The choice comes down to "which technique should be used with each risk?"

- Is there a formal or informal policy in place
 - Formal = more rigid & fewer decisions to be made
 - Informal = more decisions and more latitude
- Considerations could include:
 - Potential size of loss and its probability
 - Resources available should loss occur

Implementation

- If made to RETAIN the risk
 - With/without a fund
 - With/without a reserve
- If LOSS PREVENTION the risk
 - Proper program designed and implemented
- If to TRANSFER the risk
 - Insurance
 - Contractual

Evaluation and Review

- MUST be done and is never ending
- Things always change: new risks appear while old disappear
- Financial considerations may have changed
- Mistakes sometimes are made
- HOW to do this?
 - Repeat each of the prior steps in the new light
 - Implementation and follow-up is verified

Risk Management Rules

Do NOT risk more than you can afford to lose

Consider the odds

• Don't risk a lot for a little

Risk Characteristics

	High Frequency	Low Frequency
High Severity	OUCH!	Insurance
Low Severity	Retention & Reduction	WHAT, me worry?

Insurance — the LAST Resort

More often than not the choice is

to BUY or NOT to BUY?

Many Buy too little

Few Buy too much

Large Loss Principle

 Essential coverages FIRST, i.e. the probability that a loss may or may not occur is less important than the possible size of the loss

 In other words – transfer those risks that the customer simply cannot afford to incur

NOT "can I afford it" but rather "can I afford to be without it?"

Client Discussion Areas

Using RM Principles

PRACTICAL RM THOUGHTS

Loss Prevention Topics

Loss Prevention Topics

- Hiring Practices
- Independent Contractors
- OSHA Requirements
- Auto Safety
- Silo Safety

- Combine Risks
- Tractor Safety
- Other Vehicles
- Chemical applications
- Manure Management

Hiring Practices

- What is their process
- Do they verify status...How
- Use of the I-9 form acceptable documentation
- Applications used FLCs used
- E-Verify
- Job descriptions
- Skilled vs. Unskilled laborers
- What do they ask

Independent Contractors

- Are they???
- SS-8 http://www.irs.gov/Forms-&-Pubs
- Behavioral Control
- Financial Control
- Relationship of Parties
- Workers' Compensation provided by IC
- CONTROL IS KEY

OSHA Items

OSHA Form 300

 Even when your customer is RIGHT...the downside of it all can be debilitating

- MORE OSHA: Tractors PTOs Harvesters ATVs General Vehicle Safety – Heat Illness – Ladders & Falls – Grain Bins & Silos – Pesticides
 - Respiratory Zoonotic Infections

Auto Safety

MVR checks

Cell Phones/Texting

Vehicle check outs

Passenger Van Training

Safety Inspections

Backing Techniques

Winter Driving

Proper Signage

Drugs & Alcohol

Seat Belts

Silos & Bins Safety

Augers & Conveyors

Respirators

Structural reviews

• Ladders

Fall protection

Hatch security

Confined spaces

Suffocation

Communications

• Rescue Equipment

Combine Risks

- Safe Stop
- Blockage clearing
- Appropriate training
- Entanglement concerns
- Falls, slips, trips and more
- Dust Fires Overhead lines
- Hearing protection eye protection etc.

Tractor Safety

ROPS

Guards fitted properly

Operator familiarity

Age limitations

Hearing protection

Brake functionality

Starting options

Power Lines

Regular inspections

Load ratings

Other Vehicles

- ATVs
 - # of wheels
 - Rollovers
 - Multiple riders on single passenger ATVs
 - Age restrictions tied to HP and/or CC sizes
 - Appropriate attachments
 - Where to safely operate
 - Appropriate riding gear

Chemical Applications

Register of Hazardous Materials used

Safety Equipment

Appropriate labeling

Flammable storage

MSDS Sheets

Spill procedures

 Proper Training of ALL employees using Regular inspections

Suitable storage

Manure Management

 Underground – Open Lagoon – Above Ground Methane – Ammonia – CO2 -Hydrogen sulfide –

Ventilation

Agitation increases

Spillage and overfill

Pinch points

Children, animals and strangers

• Respiratory equipment

Equipment operation

Warning signage

Thank You



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