

Session Description

Farmowners' insurance is a \$5b product line, placing it just behind surety and mortgage but ahead of ocean marine, product liability, flood and earthquake.

Yet, you've probably never heard a presentation on it.

Hear from some actuaries at companies where agricultural products are a major focus and learn how the experience differs from working on larger product lines.

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Learning Objectives

- recognize major drivers of farm premium/loss
- name several nuances in pricing farm business
- contrast cat perils to which farms are exposed

Antitrust Notice

- The Casualty Actuarial Society is committed to adhering strictly to the letter and spirit of the antitrust laws. Seminars conducted under the auspices of the CAS are designed solely to provide a forum for the expression of various points of view on topics described in the programs or agendas for such meetings.
- in the programs or agenoas for such meetings. Under no circumstances shall CAS seminars be used as a means for competing companies or firms to reach any understanding – expressed or implied – that restricts competition or in any way impairs the ability of members to exercise independent business judgment regarding matters affecting competition.
- It is the responsibility of all seminar participants to be aware of antitrust regulations, to
 prevent any written or verbal discussions that appear to violate these laws, and to
 adhere in every respect to the CAS antitrust compliance policy.

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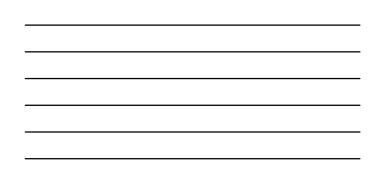
Poll Question: Understand thy Audience

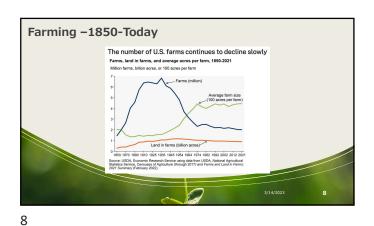
What is your closest level of association with farm insurance?

- I have worked in the field specifically.
- My company produces it, but I haven't tended to it.
- I grew up on a farm or ranch.
- I had/have a relative in agriculture.
- I eat food grown on farms.





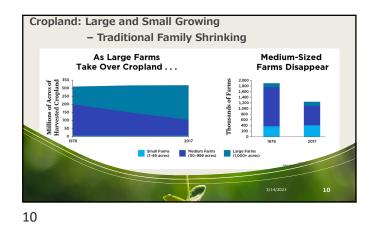


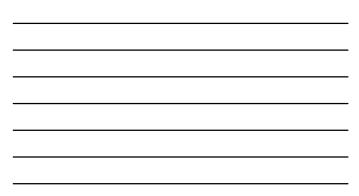






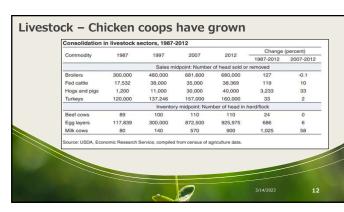






















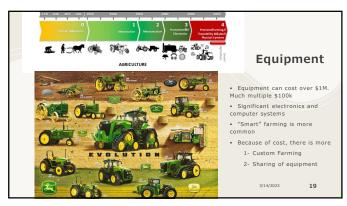




















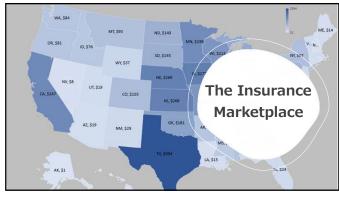




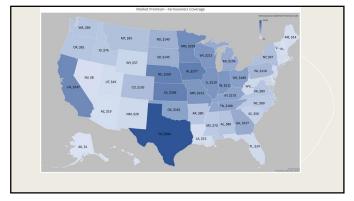






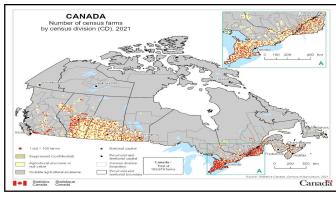




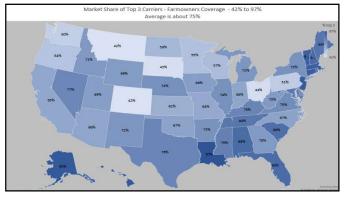


NAIC 2021 Market Share Report

Line of Business	GEP	Pct.	Line of Business	GEP	Pct.
Personal auto	258	34%	Crop/farm	20	3%
Home/fire & allied	150	19%	Financial	12	2%
Liability - other	100	13%	Medical malpractice	11	1%
Workers' comp	56	7%	Catastrophe (flood/EQ)	8	1%
Commercial auto	51	7%	Surety	7	1%
Business/BM	50	6%	Crime (e.g., fidelity)	2	.2%
Marine/aircraft	35	5%	All other	9	1%
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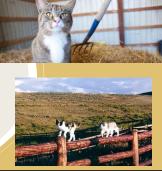






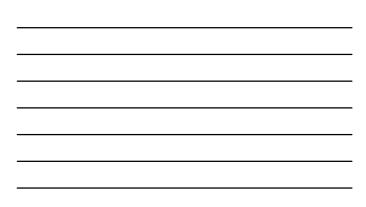


How 2021 changed how we thought about the catastrophe exposure of farms and ranches

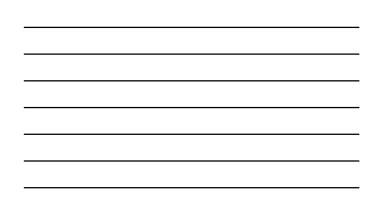


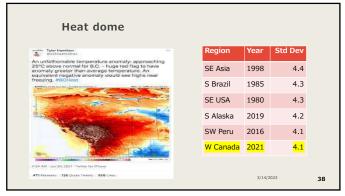
Largest catastrophes in provincial history						
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Event	Location(s) affected	Date	Metric	Comment		
Flood	Sumas, other parts of BC/WA	Nov. '21	\$675M loss	most homes ineligible for flood		
Fire	Southern Interior	Aug. '21	\$97M loss	two major losses ten days apart		
Fire	Southern Interior	July '21	\$107M loss	first town destroyed since WWI		
Heat	Western North America	June '21	847 dead	6 th most abnormal heat wave ever		
Wind	Lower Mainland, Van Island	Dec. '18	\$80M loss	754k power outages (80% of Island)		
Fire	Central Interior	July '17	\$89M loss	>11k evacuated for almost 2 weeks		
Fire	Kelowna	Aug. '03	\$270M loss	remains largest ever WUI event		
Tsunami	Port Alberni	Mar. '64	9.2 (AK)	damaged 430 homes (\$86M)		
Quake	Haida Gwaii (felt across BC)	Aug. '49	~ 8.0-8.1	greater than 1906 San Fran quake		
Flood	Fraser Valley	May '48	\$150M loss	~55,000 acres of farmland		
Quake	Central Island (felt in Portland)	June '46	~ 7.5-8.0	largest ever on-shore quake		
				3/14/2023 35		

Largest catastrophes in corporate history						
Event	Location(s)	Date	E	vent	Location(s)	Date
Flood	various	Nov- 21	Fi	ire	BC Interior	Jul-17
Fire	Fort McMurray	May-16	Н	lail	Calgary	Jul-16
Fire	BC Interior	Aug- 21	Fi	ire	BC Interior	Jul-17
Fire	BC Interior	Aug-15	Fi	ire	BC Interior	Jul-17
Heat	Fraser Valley	Jun- 21	Fi	ire	BC Interior	Jul- 21
Fire	Lytton	Jun- 21	F	lood	S. Alberta	Jun-13
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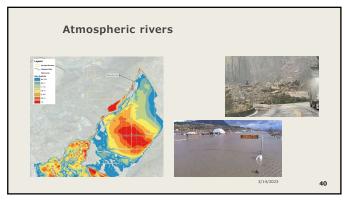






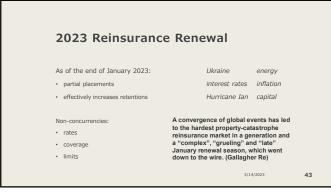


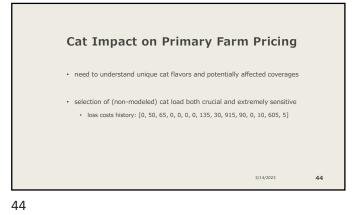


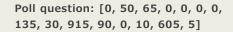












Use your best actuarial judgment to select a cat load:

- + \$10 (15 year median) recent years due to bad luck
- \$127 (15 year average) use entire available time period
- \$224 (latest 8 year average) observable change in climate
- \$295 (15 year OLS regression) extreme weather accelerates
- \$362 (average 5 highest years) can't afford to be unprofitable

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3/14/2023

