Crop Insurance

John Buchanan CARe Seminar – C-7 Philadelphia, PA June 7, 2011

CARe 2011 – C7: Crop Insurance



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.
- 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.

2

Crop Session Description

Crop Insurance

Farmers purchase insurance to cover their agricultural crops against the reduction in yield or revenue because of specified perils. Expertise is typically required to underwrite and price a crop reinsurance program because of the wide range in agricultural crop exposures. This session will provide an overview of crop insurance, including outlining the impact of recent changes to the government assistance programs, and will discuss how crop fund allocation methods are made and reinsurance programs are developed. Additional topics may include the affect of recent and historical meteorological events, projected climate changes, and overview of the crop insurance marketplace in other countries.

- Moderator:
 - John W. Buchanan, Senior Vice President, Platinum Reinsurance
- Panelists:

Beth Collins, Senior Vice President, Guy Carpenter & Company, Inc. Wade Shuler, Executive Vice President, Heartland Crop Insurance Jack Seaguist, Assistant Vice President, AIR Worldwide

3

Agenda

- Overview of Crop Insurance (10 mins John Buchanan)
 - Overview
 - Basic Meteorological Information
- US Crop Insurance (20 mins Beth Collins)
 - Class of Business Historical Perspective
 - Government Subsided Program and Private Reinsurance
- Primary MPCI Coverage (20 mins Wade Shuler)
 - Types of Insurance Loss Drivers
 - Underwriting Management Fund Designation Basics
- Modeling Illustration (20 mins Jack Seaquist)
 - General Framework Agricultural Weather Index Approach
 - Applications US and China
- Questions

4

Overview

- Size of Primary MPCI Market
- Overall Results
- Loss Drivers
 - Drought
 - Excess Moisture
 - Commodity Price Fluctuation

APPENDIX

- Longer term meteo
- Climate impacts
- Other markets

5





























