

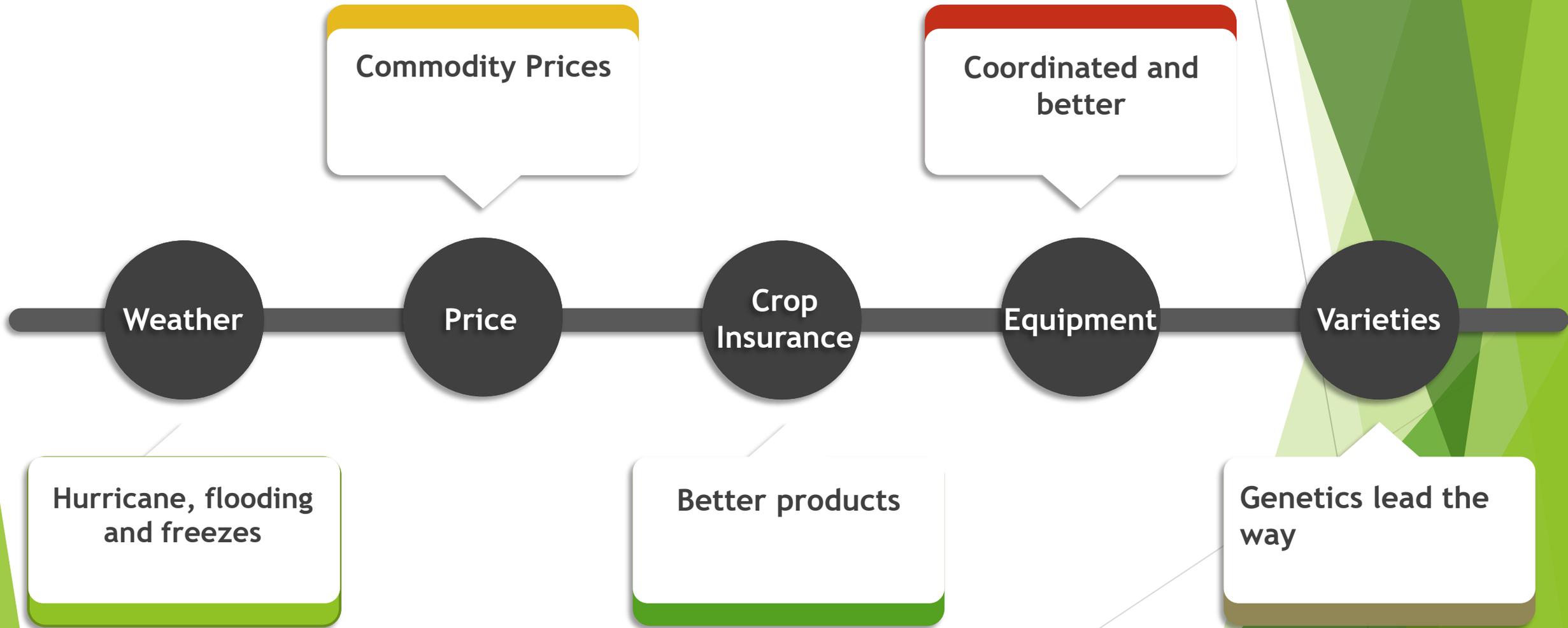


Factors Sustaining a Growing Louisiana Sugar Industry

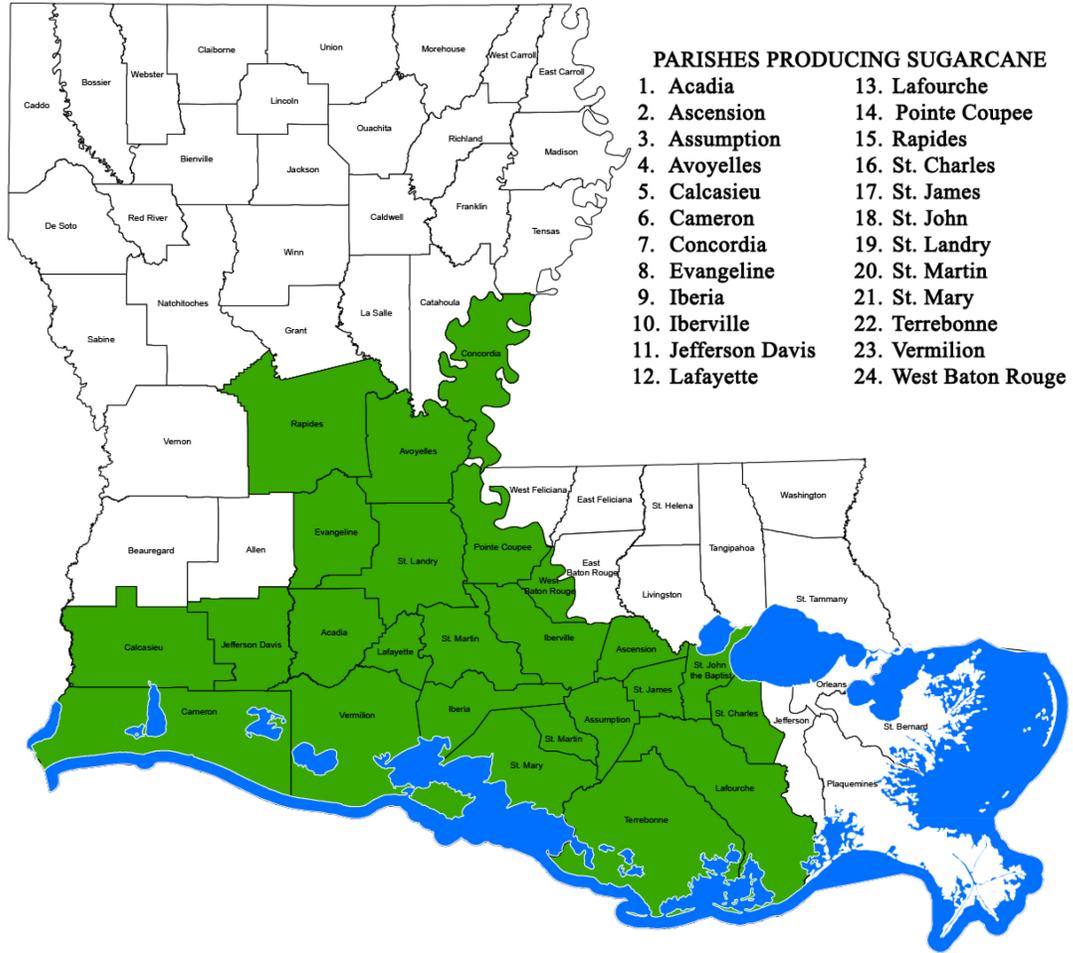
Kenneth Gravois

Louisiana State University
Agricultural Center

Road to Expansion





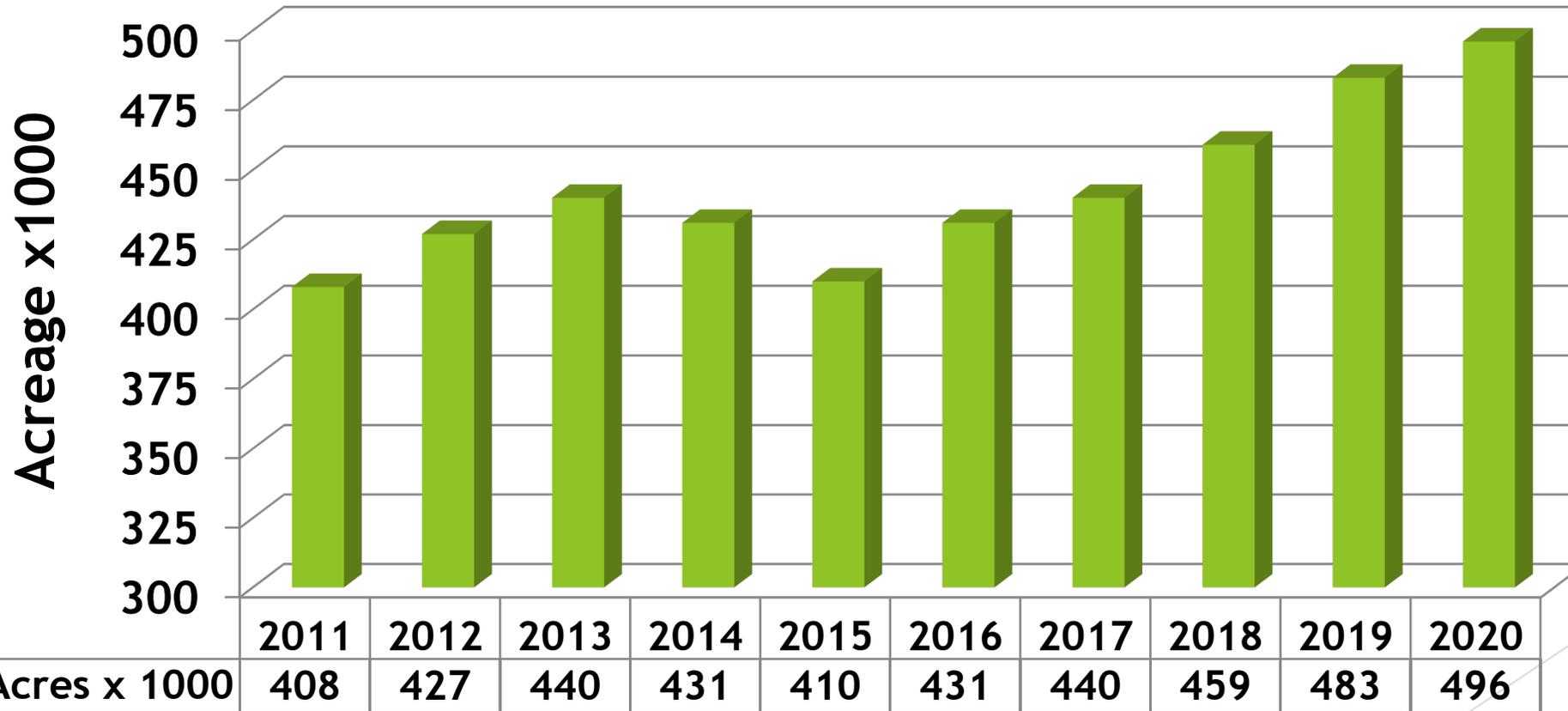


Legend

- Parishes with Commercial Sugarcane
- LA Parishes

Louisiana Sugarcane Acreage

Acres x 1,000

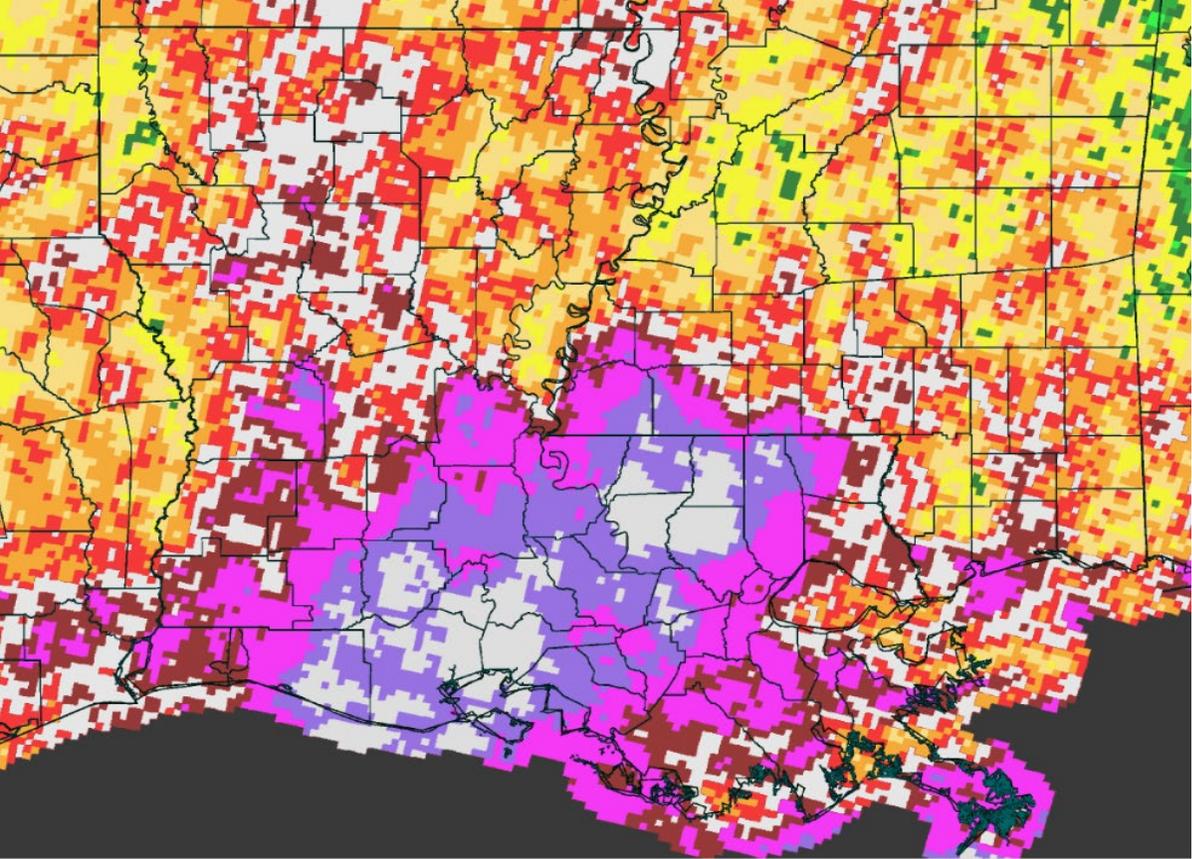


Years





Weather



August 18, 2016 14-Day Observed Precipitation
Created on: August 19, 2016 - 12:44 UTC
Valid on: August 18, 2016 12:00 UTC



Hurricane Season 2020

Graphic by
Dan Swenson

2020 HURRICANE SEASON IN THE GULF





Hurricane Betsey

Air Force 1 - LBJ

September 9, 1965

Why is the sugarcane acreage in Louisiana increasing?

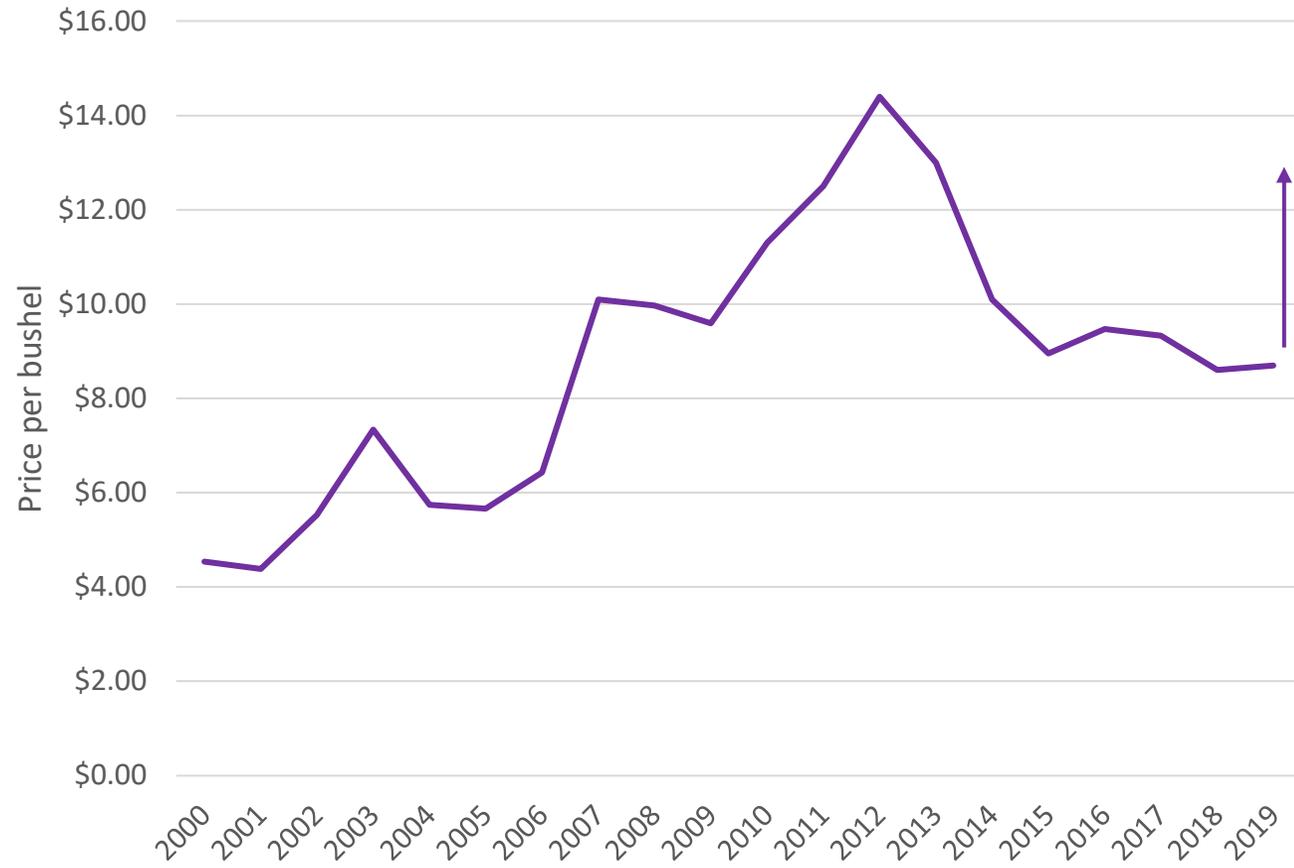
- **Sugarcane is a resilient crop for a harsh climate**

Commodity Prices



Historical U.S. Soybean Prices

2000-2019



Source: NASS, USDA.



Need a good picture

Decent & Stable Sugar Price





Better Crop Insurance

Staff Report No. 2020-47

August 2020



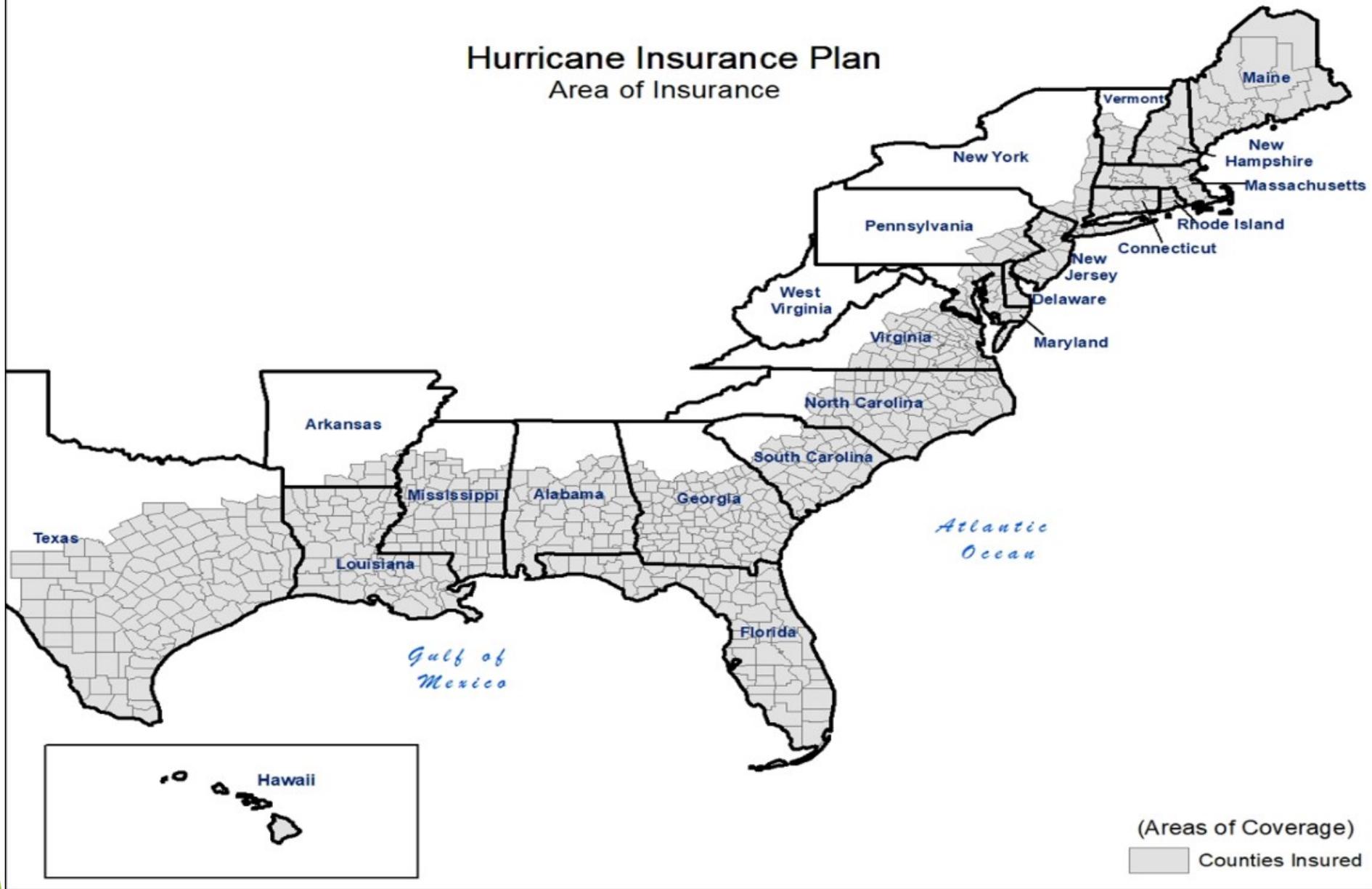
Sugarcane APH Crop Insurance Evaluation Tool for the 2021 CY

Dr. Michael A. Deliberto

*Louisiana State University Agricultural Center
Department of Agricultural Economics & Agribusiness*

Hurricane Insurance Plan

Area of Insurance



Seed Cane



Water Level



Newly Planted





Harvest Groups



A photograph of a lush green rice field with rows of plants stretching into the distance. The word "varieties" is written in a large, white, sans-serif font with a thin black outline, slanted diagonally across the center of the image. The background is a dense field of rice plants under natural light. On the right side, there are several overlapping, semi-transparent green geometric shapes that create a modern, layered effect.

varieties

Proceedings of the International Society of Sugar Cane Technologists, volume 29, 2016



Breeding new sugarcane varieties with enhanced ratooning ability

KA Gravois¹, MM Zhou², HP Hoffmann³, G Piperidis⁴ and G Badaloo⁵





Who doesn't like improved stubbling ability?

Ho 07-613 vs L 01-283

Crop Cycles for Different Countries

Country	Plant-cane	First Stubble	Second Stubble	Third and Older Stubble
Louisiana 1947	40	40	20	
Louisiana 2020	26	26	26	22
Florida 2019	32	32	26	9
Australia	16	19	18	48

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Mauritius	Average crop cycle length is 12 years.			
South Africa	Varieties that cannot make 10 ratoon crops are not preferred by growers.			

Factors Affecting Stubbling Ability

- ▶ Manual vs. Mechanized Harvest

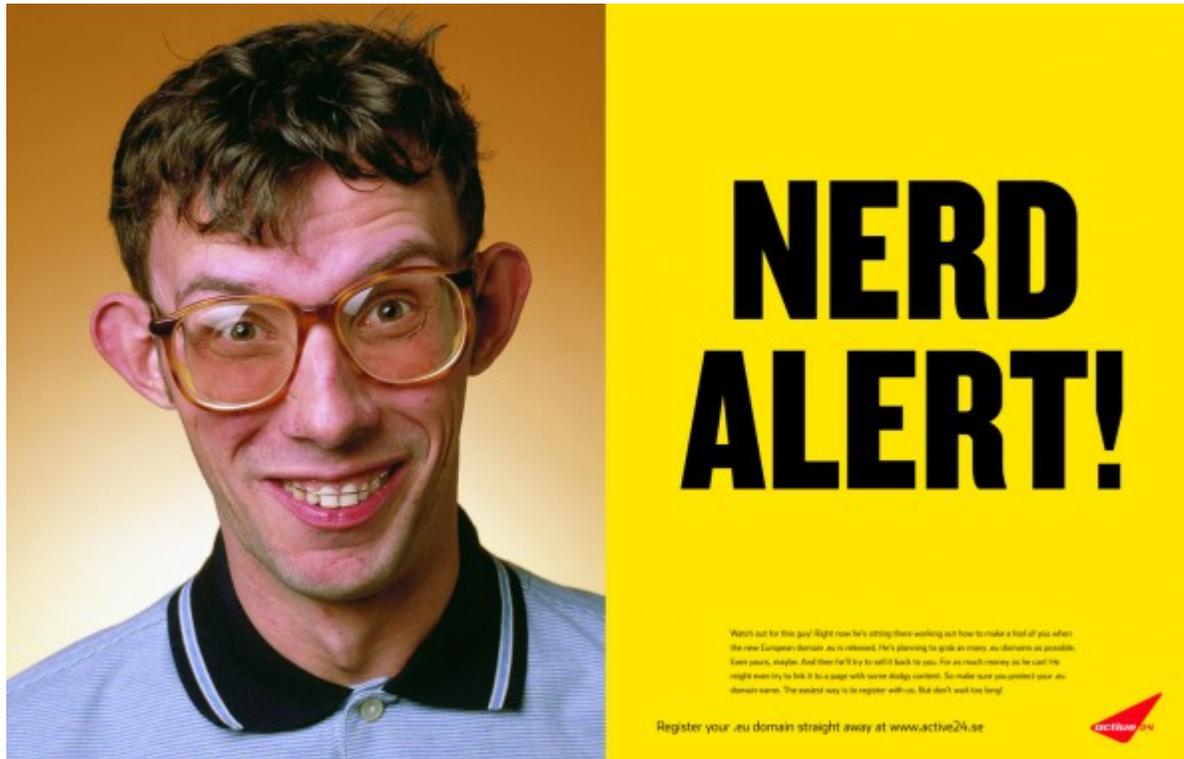


Factors Affecting Stubbling Ability

- ▶ Variety Factor



Breeding Sugarcane for Better Yield and Longer Crop Cycles



Some Facts about Breeding Programs

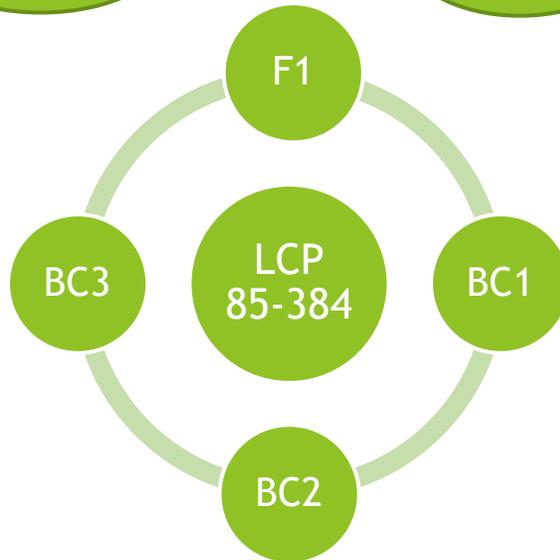
- The goal of sugarcane breeding programs is to improve yield, protect yield, and solve problems.
- New varieties are outliers, anomalies, genetic exceptions, rogue.
- Selection, within the framework of a variety development program, is the intentional pursuit of the exception.

Breeding Strategies

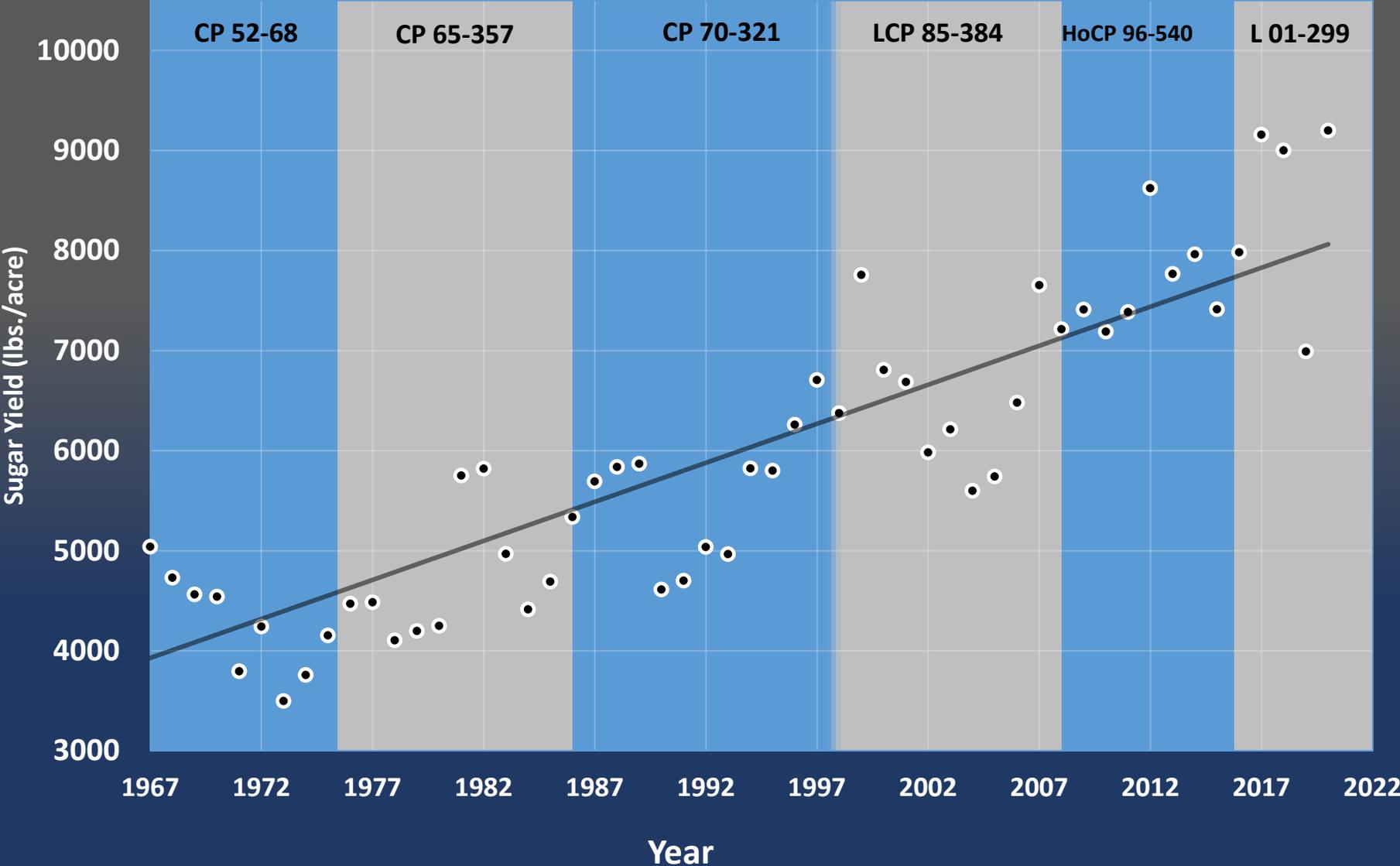
- Introgression (Basic Breeding)
 - The value of the basic breeding program to Louisiana cannot be overstated.
 - How do we leverage the basic breeding programs for future success?

HoCP96-540

L 01-299



53 Years of Sugarcane Yields in Louisiana



Final Thoughts

What gives growers confidence to expand acreage?

Good varieties

Good price

Institutions in place to keep it going