



Challenges, Benefits, & Future of Citrus Production in the U.S.

Jim Snively

Challenges in the Citrus Industry

- Disease
- Labor
- Increased Cost
- U.S. Consumption
- Foreign Competition



Disease

Jim Snively

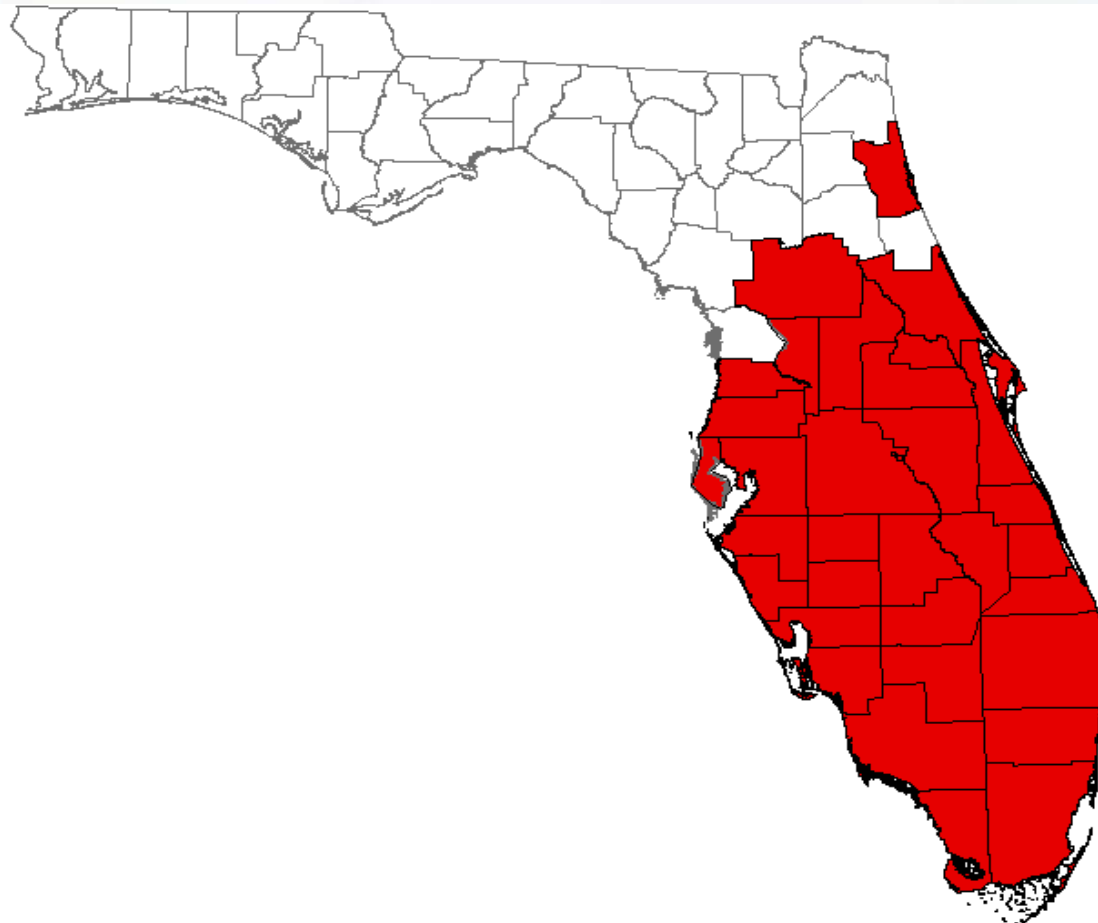
Disease

- Huanglongbing (HLB or Greening Disease)
- Citrus Canker
- Citrus Black Spot
- What is next? Citrus Variegated Chlorosis (CVC), Leprosis. Etc.

Huanglongbing



**HLB was found in Florida in August 2005
By August 2008 it was identified in 32 Florida Counties;
Today it has been identified in 34 counties**



32 counties

HLB – The Vector Asian Citrus Psyllid



Citrus Canker



UGA1262020

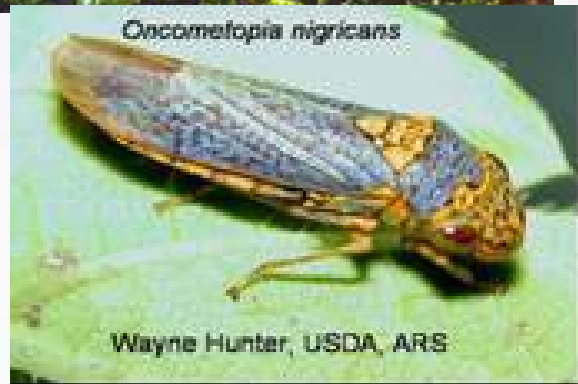
Citrus Black Spot



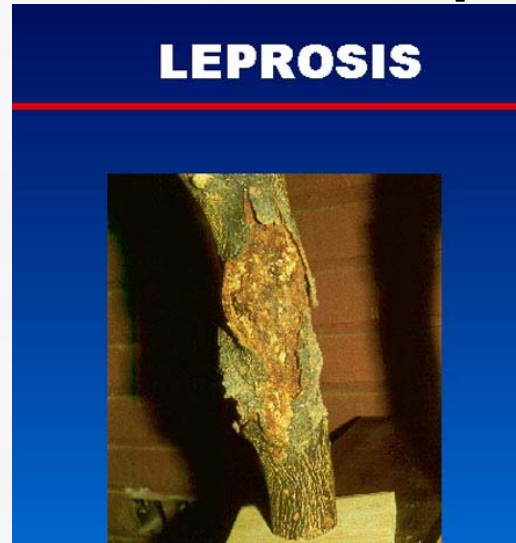
What is Next?

Other Disease Threats to the U.S. Citrus Industry Citrus

Citrus Variegated Chlorosis



Citrus Leprosis



Disease Control Concerns

- Using more Crop Protection Materials (Loss of beneficial organisms)
- Losing products during the re-registration process
- Pesticide resistance



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CORPORATION

SOUTHERN
GARDENS
CITRUS

Labor

Labor

- E-Verify a major concern (Instant Verification of Worker Authorization)
- Guest Worker Programs Expensive
- Government is not prepared for E-Verify
- Americans will not do this type of work



Cost

Cost

- Increase fuel cost - 30% to 40% over the last 5 years
- Increase fertilizer cost – 40% to 45% over the last 5 years
- Increased crop protection cost – 150% increase due to crop protection material usage
- Increased labor for disease control – 20% increase in labor cost due to scouting for disease
- Overall Citrus Production Cost increased 50% to 75% due to disease and material pricing

Economics

- Inspection - \$110.00 per acre
- Tree Removal - \$60.00 per acre
- Resets & Planting - \$56.00 per acre
- Psyllid Control - \$250.00 per acre
- **Total HLB Cost - \$476.00 per acre**
- **Total Production Cost - \$1,376.00 per acre**

Spray Program – Pre Canker and HLB

- **Dormant Spray**-December/January: Urea & Nutriphite
- **Post Bloom Spray**- March/April: Oil, Nutriphite, Potassium Nitrate, Nutritional
- **1st Summer Oil**- May/June: Oil, Copper, Potassium Nitrate, Nutritional
- **2nd Summer Oil**- July/August: Oil, Copper, Nutriphite, Nutritional, and miticide (if needed)
- **3rd Summer Oil**- September/October: Oil, Copper, Nutritional, and miticide (if needed)
- **Young Trees Only- 2 applications** - March/April and August: Admire trunk/soil drench applications

Spray Program – Post HLB

- **Dormant Spray**-December/January: Urea, Nutriphite, **Danitol 2.4 EC**
- **Systemic Control**- December/January: Temik (No longer available)
- **Post Bloom Spray**- March/April: Oil, Copper, Nutriphite, Potassium Nitrate, Nutritional, **Dimethoate 5 Pound (Aqueous Formulation)**
- **Aerial Psyllid Control – Malathion – 24 Fl Oz**
- **1st Summer Oil**- May/June: Oil, Copper, Potassium Nitrate, Nutritional, **Provado 1.6 F**
- **2nd Summer Oil**- July/August: Oil, Copper, Nutriphite, Nutritional, **Lorsban 4EC** and miticide (if needed)
- **3rd Summer Oil**- September/October: Oil, Copper, Nutritional, **Provado 1.6 F** and miticide (if needed)
- **Young Trees Only**- **6 applications – January, March, May, July, September, November**
- **Citrus Health Management Area Spray (CHMA) – November -Aerial application – 1 pounds Imidan**



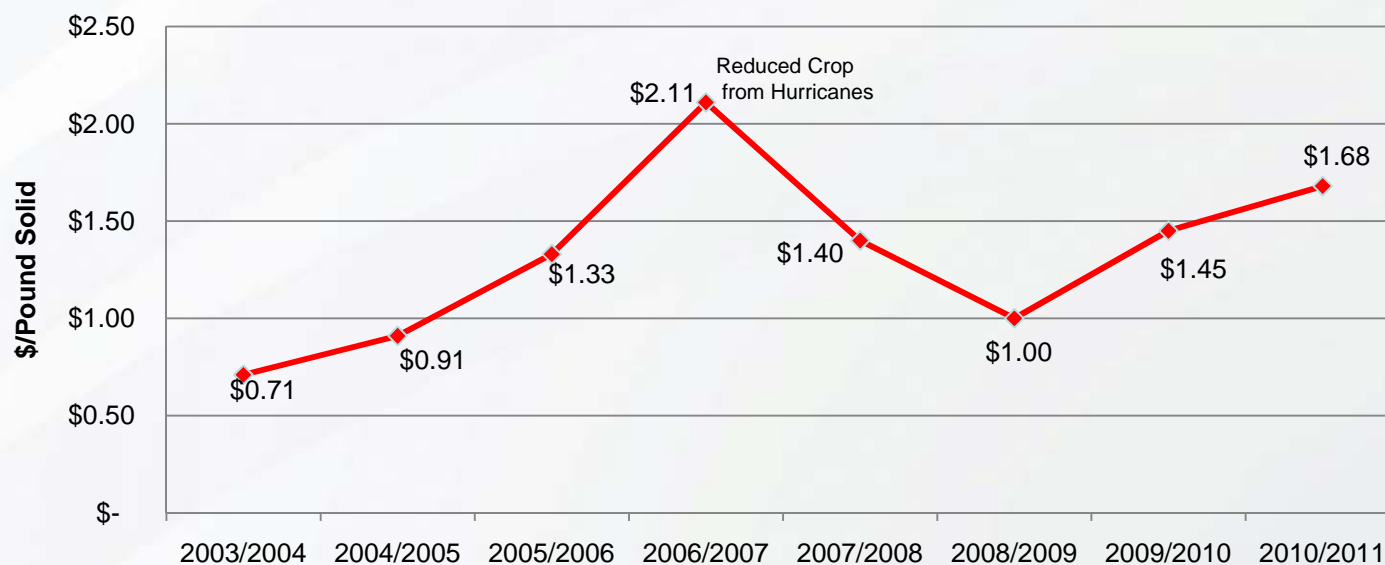
Benefits

Benefits

- Favorable Prices

Grower Prices

Canners Average Prices



◆ Canners Average Price

Grower Prices

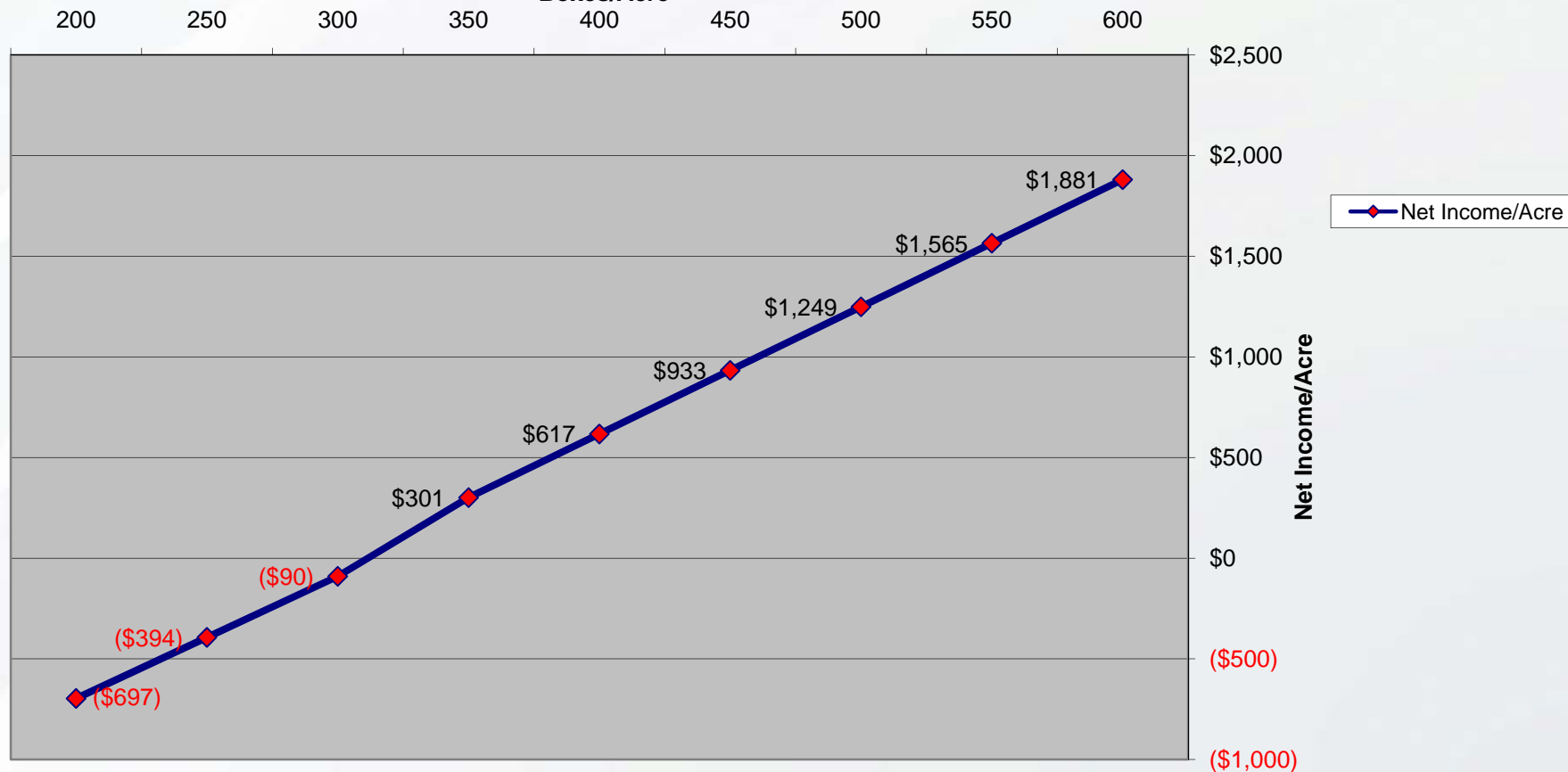
No Debt Service

Net Income @ \$1.25 per LBS Solid @ 6.3 LBS Solids/Box
No Debt Service



Grower Prices with Debt Service

Net Income @ \$1.40
per LBS Solid @ 6.3 LBS Solids/Box
with Debt Service
Boxes/Acre





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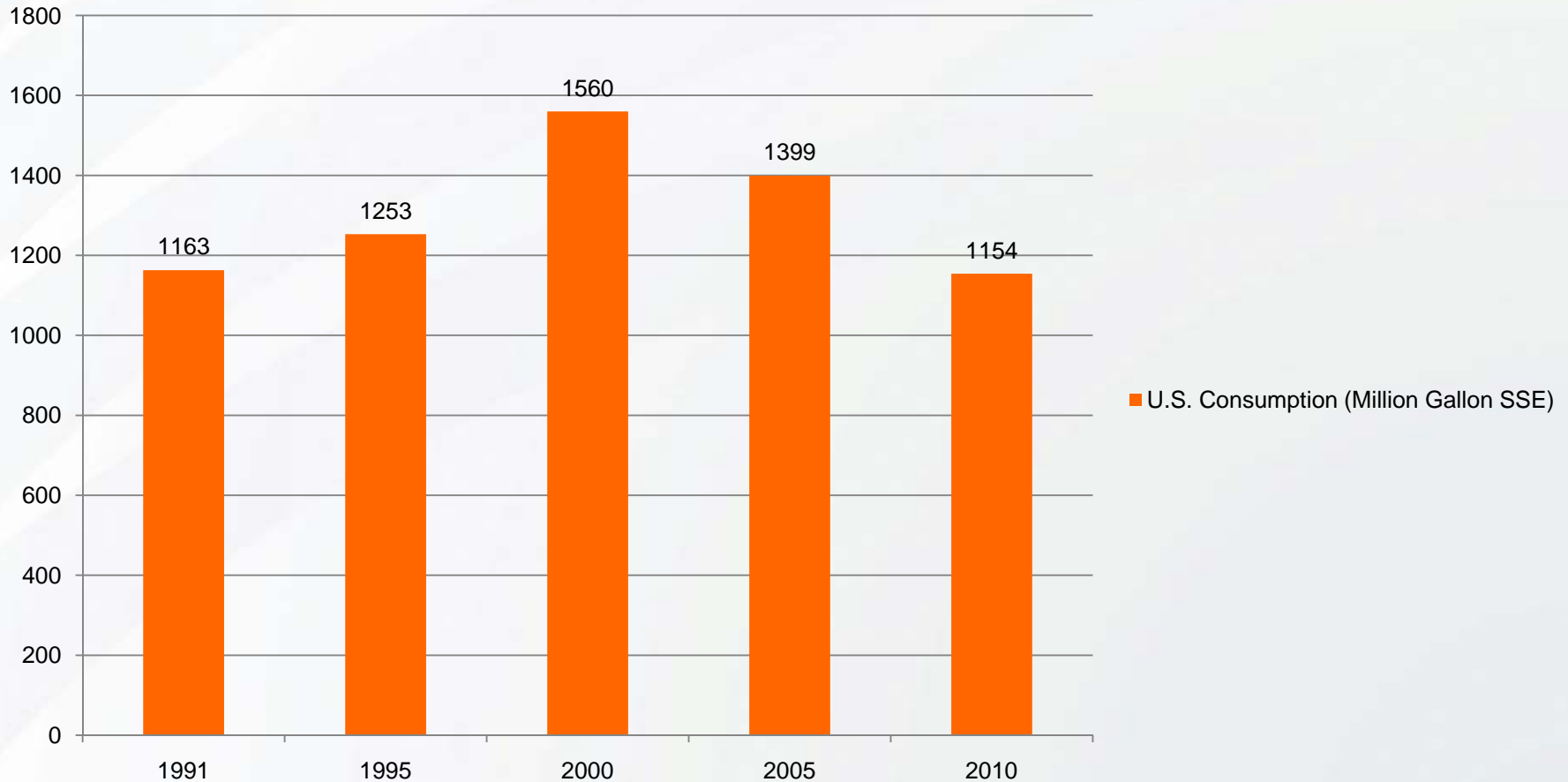
Future



Consumption & Foreign Competition

Consumption

U.S. Consumption (Million Gallon SSE)

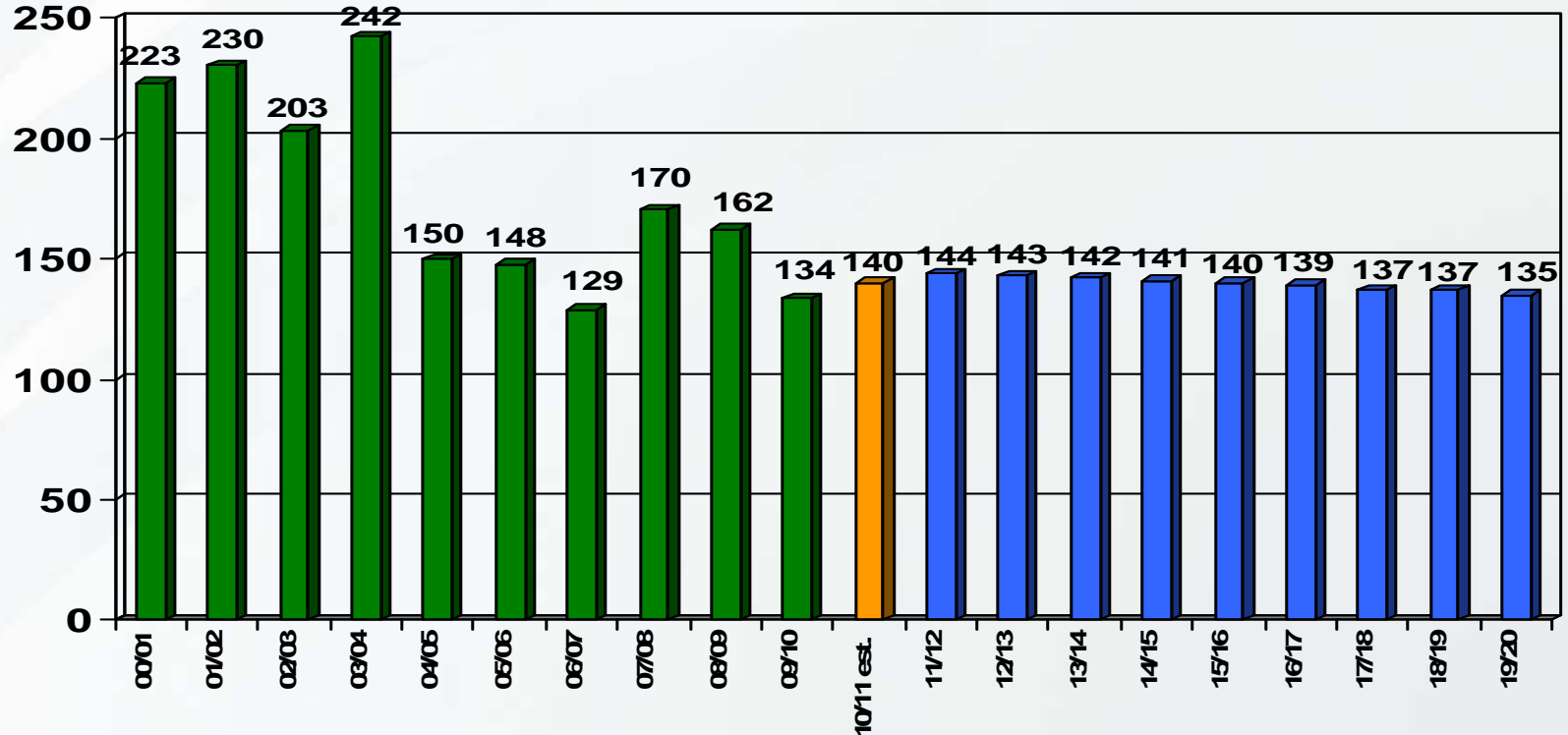


Long Term Florida Production -3.9% Tree Loss

Millions of Boxes

(Source: 2000-01 through 2009-10 actual from USDA/NASS Crop Reports

2011-12 through 2019-20 based on Report: FDOC FL Citrus Prod. Trends 3/16/11

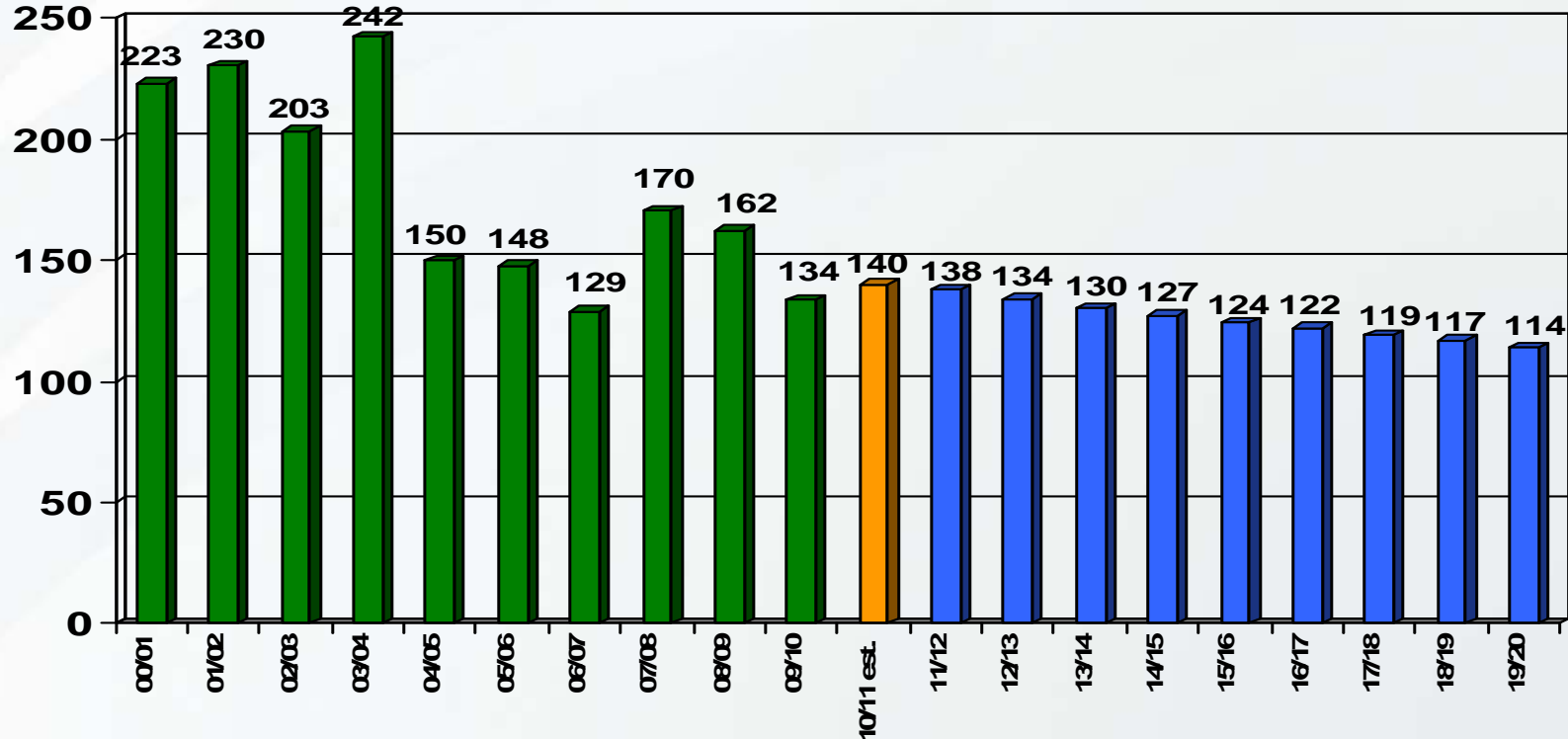


Long Term Florida Production -5.8% Tree Loss

Millions of Boxes

(Source: 2000-01 through 2009-10 actual from USDA/NASS Crop Reports

2011-12 through 2019-20 based on Report: FDOC FL Citrus Prod. Trends 3/16/11

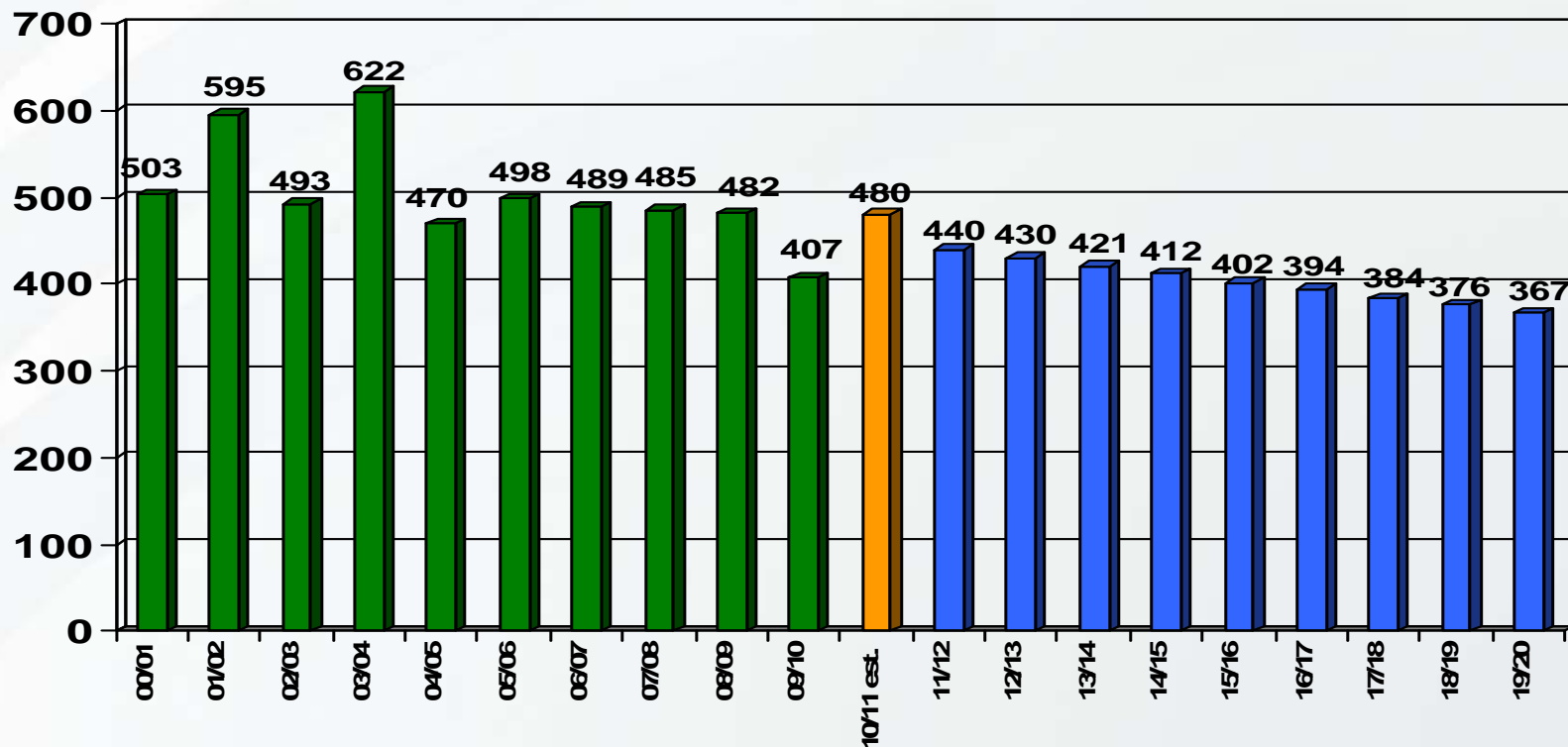


Long Term Florida and Brazil (Sao Paulo) Production Combined

Utilizing Florida Tree Loss of -3.9%

Millions of Boxes

(Source: 2000-01 thru 2009-10 actual USDA/NASS Crop Forecasts & FL Citrus Ref/FDOC
2011-12 thru 2019-20 based on report FDOC: FL Citrus Prod Trends 2012-13 thru 2020-21
& GCONCI at Citrus Research Center, Lake Alfred, FL 04/2010)

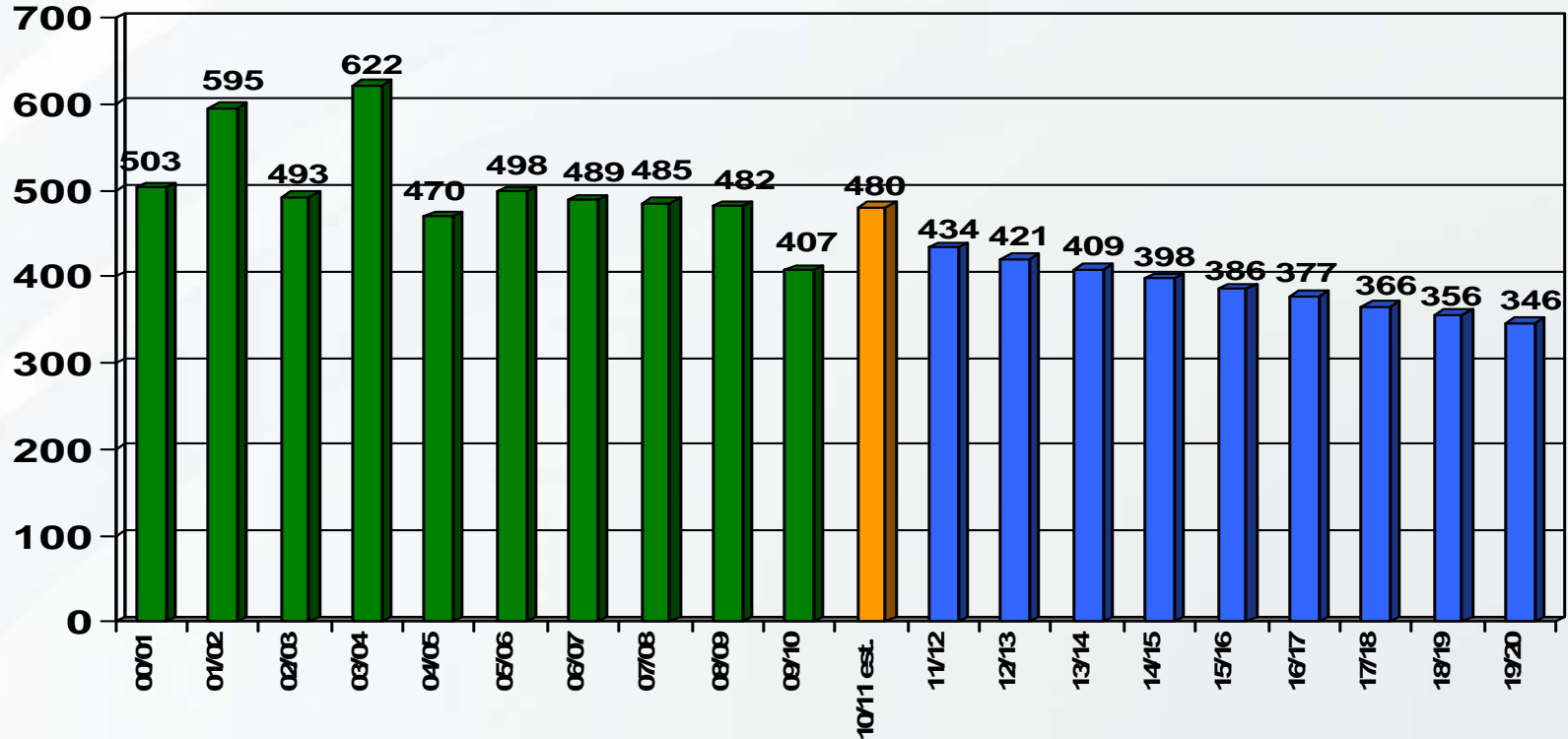


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Imports

FCOJ & NFC Orange Juice Imports





Thank you for your attention!

Questions?