Changes in our Agricultural Landscape

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“The only thing that never changes is that everything changes” Louis L’Amour

- Farming Acres
- Economy
- Population
- Climate
- Technology
- Eating Habits
Food Supply - It doesn’t come from the grocery store

Nationally....

- During a 5 year period ending in 2014 the US lost 90,000 farms.
- We are losing close to a million acres a year of farmland.
- Roughly 20 percent of our food supply is imported.
Food Supply - It doesn’t come from the grocery store

State....

• Florida has approximately 48,000 Farms
• Florida has lost approximately 1 million acres of farmland from 2002-2012
• Currently less than 1/3 of the 34.7 million acres of land in Florida is farmland
Local Martin County Ag 183,000 Acres...

- Pasture: 66%
- Sugar Cane: 12%
- Cropland: 9%
- Citrus: 4%

### Land Use Details

<table>
<thead>
<tr>
<th>Land Use</th>
<th>Acres</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pasture Grazing Acres</td>
<td>120,103.80</td>
<td>66%</td>
</tr>
<tr>
<td>Sugar Cane Acres</td>
<td>22,846.90</td>
<td>12%</td>
</tr>
<tr>
<td>Cropland Acres</td>
<td>15,883.43</td>
<td>9%</td>
</tr>
<tr>
<td>Active Citrus Acreage</td>
<td>6,422.50</td>
<td>4%</td>
</tr>
<tr>
<td>Nursery Flower Farm Acres</td>
<td>3,601.80</td>
<td>2%</td>
</tr>
<tr>
<td>Timberland Acres</td>
<td>2,822.75</td>
<td>2%</td>
</tr>
<tr>
<td>Stable Acres</td>
<td>2,551.15</td>
<td>1%</td>
</tr>
<tr>
<td>Sod</td>
<td>2,139.45</td>
<td>1%</td>
</tr>
<tr>
<td>Ponds Lakes Acres</td>
<td>2,308.30</td>
<td>1%</td>
</tr>
<tr>
<td>Service acreage</td>
<td>1,619.43</td>
<td>1%</td>
</tr>
<tr>
<td>Hay Acres</td>
<td>1,365.23</td>
<td>1%</td>
</tr>
<tr>
<td>Abandoned Grove Acres</td>
<td>889.33</td>
<td>0%</td>
</tr>
<tr>
<td>Miscellaneous Acres</td>
<td>197.08</td>
<td>0%</td>
</tr>
<tr>
<td>Bee Acres</td>
<td>192.50</td>
<td>0%</td>
</tr>
<tr>
<td>Non Productive Waste Acres</td>
<td>136.08</td>
<td>0%</td>
</tr>
<tr>
<td>Poultry Fowl Acres</td>
<td>121.66</td>
<td>0%</td>
</tr>
<tr>
<td>Tropical Fruit Acres</td>
<td>40.29</td>
<td>0%</td>
</tr>
<tr>
<td>Swine Acres</td>
<td>5.68</td>
<td>0%</td>
</tr>
<tr>
<td>Fish Acres</td>
<td>4.57</td>
<td>0%</td>
</tr>
<tr>
<td>Total Acres</td>
<td>183,148.46</td>
<td>100%</td>
</tr>
</tbody>
</table>

### Pie Chart

- Commercial Agricultural Land Use in Martin County
  - Pasture Grazing Acres
  - Sugar Cane Acres
  - Cropland Acres
  - Active Citrus Acreage
  - Nursery Flower Farm Acres
  - Timberland Acres
  - Stable Acres
  - Sod
  - Ponds Lakes Acres
  - Service acreage
  - Hay Acres
  - Abandoned Grove Acres
  - Miscellaneous Acres
  - Bee Acres
  - Non Productive Waste Acres
  - Poultry Fowl Acres
  - Tropical Fruit Acres
  - Swine Acres
  - Fish Acres
Agriculture and Our Economy

- Ag and Food Sector $750 billion to GDP
- All Commodities in Florida $8.5 billion Industry
- Palm Beach and Miami-Dade $1.6 billion
- Martin, St. Lucie and Indian River $500 million
- Okeechobee and Highlands $540 million
Water Resources, Growth and Product Demand

• **Anthropogenic influences contribute to the nutrient enrichment and consumption of our water resources**

  • Population growth
  • Commercial growth
  • Increased tourism
  • Agricultural
Florida Agriculture Feeds the Masses

- Sugar 65 million people yearly supply
- Sweet corn 1 billion people for 2 months
- Rice 150 million people for 2 months
- Lettuce 1 billion salads
- Radishes 36 million pounds
- Celery 720 million servings
- Cabbage 250 million servings of Cole slaw
- Fresh Green Beans 350 million servings
- 200 million pounds of silage corn for cattle feed
- 100,000,000 gallons of molasses for cattle feed
Climate Changes and Agriculture

- Higher CO2 Levels
- Floods and Droughts
- Extreme Temperatures
- Mechanization
Climate Changes and Agriculture
Precision Agriculture

- Feeding 9.5 Billion People By 2050
- Site Specific Crop Management
- Sensors, Drones, Apps
- 4Rs, Source, Rate, Time, Place
Technology