Wicked Plants: An Update on a Poisonous Plants Mobile Web Application for Florida

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Need for Poisonous Plant Info:

- Plants among top 10 substances implicated in poison exposure to humans: 30K cases per year
- 15,000 calls related to companion animal poisonings reported to ASPCA alone
- Losses to livestock costs producers millions each year
  - Hard to define: estimates from TX show losses over 100m in 1960s
Need for Poisonous Plant Info:

• Many great resources available
  • No/few photos
  • Not searchable
  • Symptoms not included
  • Few container weed species
  • Not consistent/accurate
  • Not specific to Florida
  • Books not easy to access
UF/IFAS Mobile App Key Features

- 166 plant species
- Common name(s), scientific name, family
- Category (weed, tree, shrub, palm, flowers & bedding plants, vines, herb/vegetable, houseplant)
- Toxic plant part(s)
  - Leaves
  - Root
  - Tuber
  - Berries/fruit
  - Seeds
  - Sap
- Toxicity level
  - Low
  - Medium
  - High
  - Very High
- Symptoms
  - People
  - Pets
  - Livestock
- Notes and images
Example:

- **Scientific name:** *Solanum americanum*
- **Common name(s):** American black nightshade, small-flowered nightshade, glossy nightshade
- **Family:** Solonaceae
- **Category:** weed
- **Toxic plant parts:** All parts, especially berries
- **Toxicity level:** Very High
- **Symptoms in people:** irregular heart rate, nausea, vomiting, drooling, stomach pain, fainting
- **Symptoms in pets:** irregular heart rate, vomiting, drooling, foaming at the mouth, stomach pain
- **Symptoms in livestock:** irregular heart rate, vomiting, drooling, foaming at the mouth, stomach pain
- **Notes:** Common weed in agriculture, disturbed sites, and landscapes. Extremely toxic to people, pets, and livestock. Medical attention is needed if ingested. Can cause liver and kidney failure.
Summary:

• Hope to have Beta version available July 2018
• Accompanying EDIS document, poster(s)
  • Ornamentals
  • Weeds
  • Already one for livestock developed by B. Sellers/J. Ferrell
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