# Wild Species Working Group Players: ISTA - AOSA - SCST - KEW

Gil Waibel Indiana Crop Improvement Assoc.

Presented at: 2016 Western Meetings Kansas City, MO November 5, 2016



KEW Millennium Seedbank Partnership - Wakehurst

## **Preliminary Goals**

- Create Wild Species Handbook
  - Virtual
  - In-depth chapters describing testing methods
    - Purity
    - Germination/Dormancy
    - Pre-TZ
    - Cut test
    - TZ
    - Embryo Excision
    - X-ray



## **Preliminary Goals**

- Protocols
  - Scientific names: Current and synonyms
  - Known provenance known origin
    - Protocols with optimal methods suitable for different areas
  - Validation of germination protocols
  - Purity Pure Seed Unit and Working Weights

## **Preliminary Goals**

- KEW's Millennium Seedbank collects species world wide
  - Found germination protocols for 15,000 species
  - Has 1000 seed weights of many of these species
    - Translates into working weights
  - Photos of seeds
    - All species admitted into the KEW Millennium Seedbank are verified by taxonomists
    - A sortable database of photos of these species
      - Will help seed labs identify species tested and contaminants more accurately

#### Availability of a Virtual Handbook

- Access by subscription
- Always the latest version
- Allow more color pictures
- Videos could be used to show analysts proper methodology of testing methods
- Scientific names can always be up-to-date through downloads

#### Survey

- Majority of seed companies sold natives species solely in country
- 17% companies sold some natives in other countries
- 68% companies feel there is a lack of methods to test natives
- Lack of uniformity in testing natives
- Standard methods world-wide may not be appropriate approach

#### Native Seed Workshop

- At annual AOSA/SCST/ISTA meeting next June
  16-18 in Denver
  - Watch for updates on workshop on AOSA or SCST web page
  - Workshop is totally dedicated to discussing seed testing of native species

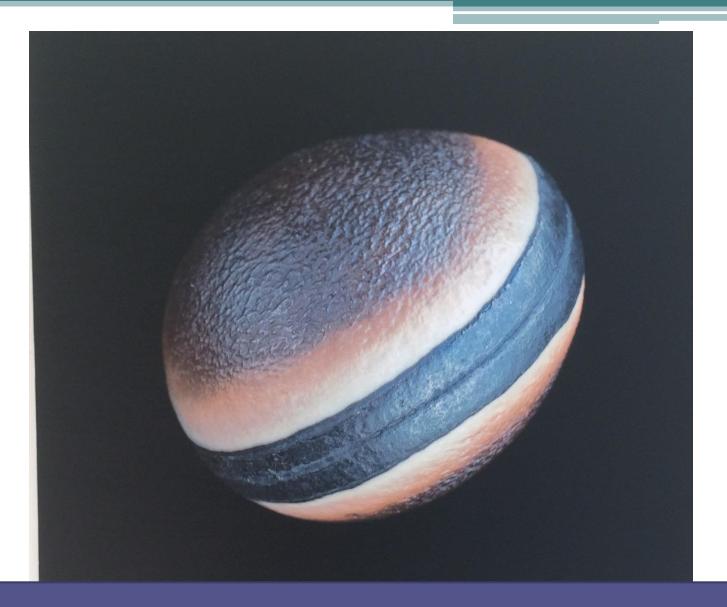
#### Reaching out for help

- Workshop and Wild Species Working Group need financial support to be successful
  - Virtual handbook requires a dedicated server
  - Web page set up and programming costs
  - Travel
  - Hire people to help find protocols in database
- Thank you to those who have already helped
- We could use all of your help Please help spread the word...

#### THANK YOU!!!



Lychnis flos-cuculi - Ragged robin



Mucuna urens - Hamburger bean