

What's New in the APIRS Online Database & Library

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APIRS – What is it?!

- Aquatic Plant Information Retrieval System
- Database of annotated citations to the research literature, e.g.

RESPONSE OF INVASIVE FLOATING PLANTS AND NONTARGET EMERGENT PLANTS TO FOLIAR APPLICATIONS OF IMAZAMOX AND PENOX SULAM

Author: MUDGE,C.R., NETHERLAND,M.D.

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Plants: EICHHORNIA CRASSIPES ** PISTIA STRATIOTES ** SAGITTARIA LANCIFOLIA ** ELEOCHARIS INTERSTINCTA ** ELEOCHARIS CELLULOSA ** SCHOENOPLECTUS CALIFORNICUS ** SCHOENOPLECTUS TABERNAEMONTANI

Category: DISTRIBUTION ** MISSISSIPPI ** CHEMICAL CONTROL ** IMAZAMOX ** PENOX SULAM ** CARFENTRAZONE ** ENDOTHALL ** FLUMIOXAZIN ** 2,4-D ** DIQUAT ** ECOLOGY ** ECOSYSTEM ** PLANT SUCCESSION ** HERBICIDES

Keywords: MESOCOSM ** EFFICACY ** HERBICIDE SELECTIVITY ** HERBICIDE COMBINATIONS ** MODE OF ACTION ** APPLICATION RATES ** SURFACTANTS



APIRS – What's old?

- In the beginning (early 1980s, pre-WWW)
 - Funded by USAID for aquatic weed assistance to developing countries
 - Mainframe, punch-card computer
 - Entered data on DOS computers and performed literature searches using Boolean commands (*chemical + control + fluridone + florida*) -(*mechanical biological*) +*haller**
 - Printed and mailed requested bibliographies to researchers worldwide

APIRS - Then

- We collected aquatic weed, and later any aquatic plant, literature worldwide
 - Peer reviewed journals
 - Books; Proceedings
 - Government reports
 - Theses and dissertations
 - Research institutions



APIRS - Then

- Scoured UF and other libraries
- Requested free journal subscriptions
- Wrote (letters!) to researchers
- Joined professional societies



APIRS - Then

- Annotated and entered citations into APIRS
- Performed literature searches on aquatic plant species
- Users
 - Researchers
 - Natural resource managers
 - Agency and field personnel
 - Graduate students
 - Other stakeholders



APIRS – Why?

- “...information on plant invasions is scattered in at least 189 journals – 15% is in books or proceedings” Peter Pysek, *Plant Invasions, 1995*
- “Information on exotics is badly fragmented – it is scattered about in hundreds of technical newsletters and publications...” Chris Bright, *Life Out of Bounds, Bioinvasion in a Borderless World, 1998*



APIRS - Then

- Went online in 1995
- Volume of literature exploded
- More accessible but still widely scattered
- Research interconnections grew
 - Invasion biology
 - Risk assessment
 - Modeling, mapping technology



APIRS Then

- Invasive plants in natural areas became an issue of concern
 - First FLEPPC newsletter appeared in 1991
 - IFAS Invasive Plants Working Group in 1999
 - UF/IFAS Assessment online in 2000
- Aquatic & “Upland” plants addressed by state and federal agencies





- Funded solely by UF/IFAS and DEP/BIPM and later, FWC/IPMS
- Continued to collect all aquatics literature
- Began to collect uplands literature
- Use of the database was strong
 - FY2007-2008
 - 7,200 site visits
 - 38,500 page views

APIRS

- But...we couldn't keep up
- And...we no longer needed to maintain a worldwide perspective
- Funding and need was in Florida



APIRS 2010-2012

- Narrowed our acquisitions to:
 - Top aquatic and upland invasive plant species
 - Newly invasive or suspect species
 - Florida, SE US, and areas of shared latitude
 - Native ranges of invasive species, both aquatic and upland, when relevant
 - FLEPPC Category I & II species
 - Florida and Federal Noxious Weeds
 - FL DACS Prohibited Aquatic Plants



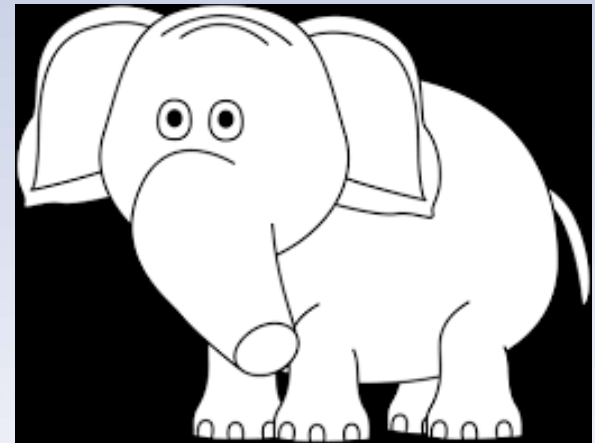
APIRS 2013-2014

- More focused on Florida invasive plants in both aquatic & natural areas
- Contacted fewer researchers & institutions
- APIRS use realigned accordingly-FY13/14
 - 2,200 site visits (7,200 in FY2007-2008)
 - 9,000 page views (38,000 page views FY07-08)



APIRS Future?

- Is APIRS a white elephant? **No!**
- Almost 90,000 citations
- Usage more focused
- Of the 2,280 visitors in FY2013-2014
 - 72% from U.S.
 - 64% (1,700) U.S. users from Florida



APIRS vs WWW

- Many journals are subscription only or for university personnel only (with ID!)
- Older items may not be available online
- Retiring professors donate collections
- APIRS citations
 - All in one place
 - No duplicate “hits”
 - Consistently formatted



APIRS vs WWW

- WWW
 - material is still widely scattered
 - doesn't weed out "junk" unless you use advanced searches competently or have access to commercial databases (e.g. Web of Science)
 - duplicate "hits" & varied sources and formats (websites, reference lists, PowerPoints)
 - + often pulls up APIRS citations!! 😊



APIRS Now

- Archived, searchable repository
 - Historical literature
 - New literature
 - State and federal agency reports
 - FWC public waterbody surveys
 - FWC Annual Reports
 - USACOE-APCRP reports
 - White papers
 - Meeting proceedings

APIRS NOW

- Continue to fill gaps in the literature
- Reviewing cataloging of early “gems”
- Recirculating selected articles of interest and importance
 - List-servs
 - Links in the CAIP website
 - *Aquatics*, AQUAPHYTE



APIRS Still

- Expanding bibliographic database
- Contains up-to-the-minute materials
- Can produce tailored literature searches in minutes
- Can search by author, plant, method, technology, or any combination



APIRS THEN AND NOW

- The only long-term collection of research & management literature on aquatic and upland invasive plant species in Florida and beyond
- plants.ifas.ufl.edu/APIRS
- kpbrown@ufl.edu
- ***THANK YOU!***

