

Call to Order: ~9:10 a.m. Bob Tichenor

<u>Presentation</u>: *Pet Re-Homing: A Practical Partnership Response to Introduction of the Northern Snakehead in Maryland*, Andy Lazur, Ph. D., Center for Environmental and Estuarine Studies, Horne Point Lab, Cambridge MD

- •<u>http://www.mdapi.com/goldcircle.html</u> Gold Circle Dealer information and list of pet stores that have agreed to re-home pets
- partnership poster campaign
  - 653 animals re-homed in 2004-05
  - ~201 due to poster campaign 1 African frog, 1 snake, 5 crabs, 2 birds, 192 fish
- Discussion
  - Q: cost to pet store to re-home? A: some stores doing this anyway,
  - Q: MISC's role? A: Subcommittee to explore opportunity to partner to expand concept of re-homing through Humane Society, Habitatitude
- Attachment A. for pdf of slides

Additions to the agenda Membership Update PLS PTI

Introductions Jaime Amirault, MDA Dick Bean, MDA Carole Bergmann, MNCPPC Rachel Cliche, USFWS Eric Duce, SHA Tom Elliott, USFS Anne Hairston-Strang, MDNR Ruth Hanessian, MAPI Mike Hemming, Eastern Shore Nurseries, Inc. Carol Holko, MDA Larry Hurley, Behnke Nurseries Marc Imlay, MAEPPC Carol Jelich, MNPS Sylvan Kaufman, Adkins Arboretum Kerrie Kyde, MD DNR Andy Lazur, Sea Grant

Fred Mann, USDA APHIS PPQ Betty Marose, MCE Bill Pruden, MDNR AI Tasker, USDA APHIS PPQ Interns: Tommy Jones, Oklahoma City Univ., Oklahoma City, OK Shane Bombader, Texas A&M, Galveston, TX Brittany DeKnight, Furman Univ, Greenville, SC Sarah Tasker John Peter Thompson, NISAC, MNLA Julie Thompson, USFWS Bob Tichenor, MDA Bob Trumbule, MDA Sarah Widman, MDNR

\* indicates new attendee

<u>Membership</u> Motion to accept Marc Imlay, Sarah Widman as voting members. Motion approved.

Approval of Minutes, April 2006 meeting

"Mark" Imlay should be "Marc" Motion to approve minutes as corrected. Motion approved.

#### Updates:

MDA - R. Tichenor, C. Holko, D. Bean, B. Trumbule

- Gypsy moth treated over 25K acres, northern tier of counties, some calls from Montgomery and Prince George's Counties; New Jersey has major defoliation
- Cankerworm outbreaks in developed area of AA County; worse where gypsy moth is a problem; trees will recover
- Imported fire ant (IFA) found in resort establishments in rootballs of tropical foliage (palms) from Florida nursery; palms were not treated for IFA according to federal quarantine requirements; MDA is surveying and eradicating all known positive sites
- Boxwood rust, *Puccinia buxi* detected in Pennsylvania on boxwood cuttings from Greece collected in 2005; no positives in Maryland but material from same trip/accessions have been destroyed; commingled material on stop sale; questions about importation process, previous trips to E. Europe - federal investigation ongoing
- Hosta virus X, http://www.inthecountrygardenandgifts.com/articles/hosta\_virus\_x.php, and daylily rust incidents on the rise in nurseries
- Pine shoot beetle Survey complete, no new sites, building up in western Maryland; next year will survey more along PA border; not a problem in well-managed plantations, but can be problematic in cut greens and ancillary products from minimally managed trees
- Emerald ash borer has expanded to IL; MD will declare eradicated this fall if no positive sites this summer
- Sirex noctilio PPQ is surveying ports; MDA has ~30 survey sites around state
- Karnal bunt fungal pathogen on wheat; MD participating in national survey
- Phytophthora. ramorum surveying 22 nurseries in MD; one traceforward from Oregon to MD landscaper; cooperated with PPQ on National Survey at National Arboretum in D.C. - all samples negative; Kerrie/Tooley results on Eastern oak species is being published; MDA Plant Pathology lab is now provisionally approved for *P. ramorum* (testing negatives only) under the National Plant Pathology Laboratory Accreditation Program (NPPLAP)

#### DNR - K. Kyde

- · Landowner Incentive Program controlling invasive species on private land;
- Purple Loosestrife Pulling Together Initiative (PLS PTI) activities
- <u>Presentation</u>: Purple Loosestrife in Maryland Threat and Response, Bill Pruden
  - http://www.dnr.state.md.us/wildlife/PurpleLoosestrife/purplels.asp
  - On-line submission form, training ppt and other materials available on Website

#### APHIS

Al Tasker

- Interim rule listing of South African Ragwort and Madagascar Ragwort, comment @
   <a href="http://regulations.gov">http://regulations.gov</a>, docket ID APHIS-2006-0019, document ID APHIS-2006-00190001, comment on or before August 21, 2006
- NPAG Reviews ongoing handed out examples: *Cissus verticillata*, *Oenanthe javanica*, *Echium planagineum*, *Brachypodium sylvaticum*
- Weed rules and regulations summary Attachment B.

#### Fred Mann

- Giant hogweed in D.C. on State Department property under eradication
- National Arboretum, D.C. will survey pond water for *P. ramorum* in cooperation with MDA; imported boxwoods seized in boxwood rust importation incident
- Baltimore Biological Risk Assessment Committee (BBRAC ) composed of CBP/PPQ/MDA CBP
   has requested monthly report on pest detections of interest

#### Other news and updates

#### Sara Widman

• ANS regulations - received comments, putting into proposal form, public comment process within next few weeks; please comment to Sara, <a href="mailto:swidman@dnr.state.md.us">swidman@dnr.state.md.us</a>, for

information go to <u>http://www.dnr.state.md.us/fisheries/</u>, scroll down page to "Potential Proposal To Address Specific Nonnative Species"

- Q: Where definitions came from?
  - A: Date derived from first non-native American human settlements, prior to 1500 B.C.; 10 years changed to 50 years for "naturalized" because it may take time to detect (e.g. snakehead)
- Q: Where will survey data for 1500 come from?
  - A: Will have data for any species proposed for listing,
- Q: Does "transport" mean incidental or deliberate?
  - A: Incidental is not in the spirit of the regulation.
- Anne Hairston-Strang funding approved for control of Japanese hops; invasive weed control underway in Frederick City Watershed
- Julie Thompson Maryland and Virginia are moving ahead with Asian oysters; MARP meeting September 13, 14 in Annapolis - wants MISC engagement
- Rachel Cliche released @500 mile-a-minute predators on Garrett Island last week; IVM Partners to manage invasive plants on Eastern Neck; workshop in September; managing phragmites throughout complex
- Mark Imlay Mile-a-minute in Little Paint Branch; wants informal workshop on garlic mustard and Japanese stiltgrass will send message out on listserv
- Ruth Hanessian concern about conflicting information, MDA Premise ID next year anyone with 4 or more pet birds need to be listed need to educate constructively
- John Peter Thompson ISAC White paper on definition of "invasive" is now public, contact John Peter for copy; MNCPPC, Prince George's County landscape manual recommends Callery pear and Japanese barberry - government needs to lead by example; new Marine Corps commandant has declared that there will be no invasive plants allowed on any Marine Corps base

#### Future meetings

BARC will host winter meeting w/tour of systematics program Field trip - September 12? Green Pharmacy Garden, Fulton, MD, Jim Duke August meeting TBA

~Adjourn 1:00 p.m.~

Respectfully submitted by: Carol Holko, Recording Secretary

### Pet Re-Homing: a Proactive Partnership **Response to Introductions of Northern Snakehead in Maryland**

Andy Lazur, University of Maryland and Ruth Hanessian, Maryland Association of Pet Industries



## **Overview**

- Background of snakehead introduction
- Press reaction
- Threats to the industry
- Industry/partner response
- Education efforts/impact
- Industry reflection

#### Invader profile

Species: Channa argus argus; 1 of 28 species

Common Name: Northern snakehead ; aka: "Frankenfish", "Chinese thug-fish", "X-files fish", and "pit bull fish"

Maximum size: 33 inches and 13.5 pounds

Distribution: Asian - China, Korea, Thailand, Japan, and USA (introd.)

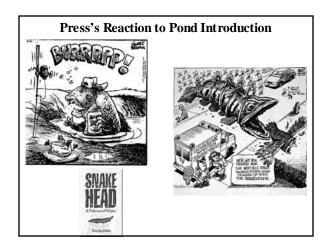
Environment: freshwater, tolerates 0-30ºC; 14-22ºC optimum

Reproduction: Dominant spawn in Spring, capable of 2-3X/yr.; 5-15,000 eggs/spawn

Population doubling: minimum 1.5-4.5 years

Feeding habits: juveniles - plankton, crustaceans,fish larvae; adults fish, frogs, crustaceans, insects

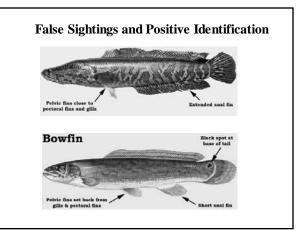
Commercial Importance: Asian food fish

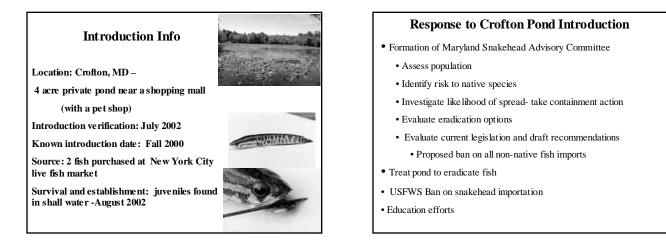


#### **Early Notable Quotes**

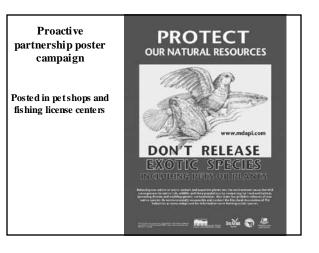
- "I would not swim in a pond with that fish"
- "It can crawl on land"
- "Its like a bad horror movie and it can eat any small animal in sight"
- "Back home we eat them, they're delicious -why all the fuss"

• "We need to improve it not destroy it - think of what this could do for sport fishing. Think of how would one of those smug TV fishing pros would react to a fish that fights back - it time these fishermen had to play defense"





Action Criteria	Low	High
Ability to prevent escape and establishment		
Ability to eradicate		
Ability to manage population		
Ability to control spread to new locations		
Ability to prevent and control spread of pathogens		
Ability to rehabilitate and recover ecosystems impacted by introduction *		

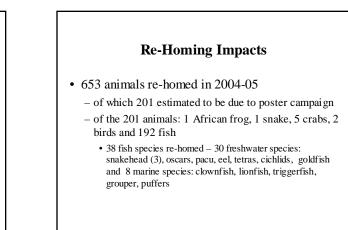






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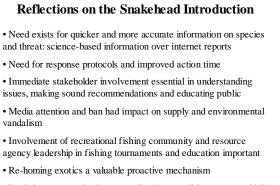


#### **Poster Program Evaluation**

- 6 of 14 shops responding
- 5 of 6 shops re-homed animals
- · 92% rating for benefit to association and industry
- · 76% rating for ability to educate consumer on dangers of releases
- 92% rating for ability to gain attention of consumer
- 94% rating for poster function of highlighting re-homing program
- 3 of 6 shops suggested use of additional educational materials on dangers of releasing non-native species
- · Other needed educational material:
- Definitions of non-native/exotic species
- Expanded emphasis on cruelty of releasing animals into environment



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Pet industry committed to expanding "responsible pet ownership"
education programming

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# **Information Sources**

MD Association of Pet Industries: <u>www.mdapi.com</u>

Habitatitude Partnership: <u>www.habitattitude.net</u>

MD DNR: www.dnr.state.md.us/fisheries

MD Sea Grant: <u>www.mdsg.umd.edu</u>

# FEDERAL NOXIOUS WEED AND SEED LAWS (June 16, 2006)

Authority: 7 U.S.C. 7711-7714, 7718, 7731, 7751, and 7754; 7 CFR 2.22, 2.80, 301.80-301.80-10, 360, and 371.3. The Plant Protection Act (PPA) was signed into law in 2000. The Federal Noxious Weed Act of 1974 was superseded by the Plant Protection Act (except that sections 1 and 15 are incorporated in the PPA and renumbered). APHIS also administers import provisions of the Federal Seed Act – 7 U.S.C. 1551-1611; 7 CFR 2.22, 2.80, 361, and 371.3.

*The Noxious Weed Control and Eradication Act of 2004. Public law 108-412.* (authorized, but currently no funds appropriated).

Purpose: To protect the health and value of American agriculture and natural resources.

Administrator: Animal and Plant Health Inspection Service, Plant Protection & Quarantine, Department of Agriculture.

## **Definitions:**

<u>Noxious Weed</u> – any plant or plant product that can directly or indirectly injure or cause damage to crops (including nursery stock or plant products), livestock, poultry or other interests of agriculture, irrigation, navigation, the natural resources of the United States, the public health, or the environment. (Plant Protection Act) – State definitions vary (see summary of State laws/quarantines at <u>http://nationalplantboard.org/laws/index.html</u>). <u>Plant pest</u>: means any living stage of any of the following that can directly or indirectly injure, cause damage to, or cause disease in any plant or plant product: a protozoan, nonhuman animal, parasitic plant, bacterium, fungus, virus or viroid, or an infectious agent or other pathogen, or any article similar to or allied with any of the articles specified in the PPA.

<u>Noxious Weed Seeds</u> - for foreign commerce, Seeds of the plants listed in 7 CFR 361.6 paragraph (a)(1) and (a)(2) regulated by APHIS; for interstate movement regulated by U.S.D.A. Agricultural Marketing Service – State definitions vary (see summary of State laws/quarantines at <u>http://nationalplantboard.org/laws/index.html</u>).

<u>Integrated Management System</u> – a system for the planning and implementation of a program, using an interdisciplinary approach, to select a method for containing or controlling an undesirable plant species or group of species using all available methods. For plant management, sometimes called Integrated Vegetation Management. <u>Quarantine pest</u> – a pest of potential economic importance to the area endangered thereby and not yet present there, or present but not widely distributed and being officially controlled. (International Plant Protection Convention)

**Regulatory authority:** Authority under the PPA allows APHIS Plant Protection & Quarantine (PPQ) to require a permit for the importation, entry, exportation, or movement in interstate commerce of noxious weeds, and also extends to any plant, plant product, biological control organism, noxious weed, article, or means of conveyance, if PPQ has decided that restriction is necessary to prevent such introduction or interstate dissemination. A violation allows imposition of remedial measures upon any plant pest or noxious weed that is new to or not known to be widely prevalent or distributed within

and throughout the United States. APHIS PPQ may "hold, seize, quarantine, treat, apply other remedial measures to, destroy, or otherwise dispose of any plant, plant pest, noxious weed, biological control organism, plant product, article, or means of conveyance" found in violation of the movement permit requirement. Any progeny of a regulated organism moved in violation is also subject to remedial measures. If APHIS PPQ orders an owner to treat or destroy the commodity, the owner bears the cost. Violators may be subject to civil or criminal penalties.

States (and U.S. territories) maintain authority over Federally regulated taxa within their boundaries unless a Federal quarantine is established or a Federal violation is proven, in either case usually with state cooperation. State authority covers regulation of sales, movement, and seizing of regulated species within state boundaries in the absence of a Federal quarantine. APHIS has authority for inspection and warrantless searches in case of suspected Federal violations. State regulatory actions within state boundaries after detection of a listed Federal Noxious Weed are limited if the state does not specifically include within their state authority the taxa on the Federal Noxious Weed list (7 CFR 360.200). States are not required to regulate the Federally regulated species, although some states regulate some or all taxa from the Federal list.

**How to list or delist noxious weeds**: A petition or proposal to list or delist may come from outside APHIS. Details of the petitioning process are posted at <a href="http://www.aphis.usda.gov/ppq/weeds/listingguide.pdf">http://www.aphis.usda.gov/ppq/weeds/listingguide.pdf</a> and <a href="http://www.aphis.usda.gov/ppq/weeds/delistingguide.pdf">http://www.aphis.usda.gov/ppq/weeds/listingguide.pdf</a> and <a href="http://www.aphis.usda.gov/ppq/weeds/delistingguide.pdf">http://www.aphis.usda.gov/ppq/weeds/delistingguide.pdf</a> and <a href="http://www.aphis.usda.gov/ppq/weeds/delistingguide.pdf">http://wwww.aphis.usda.gov/ppq/weeds/

There are five steps to listing an additional plant species;

- 1. Identify a weed that meets the definition of "quarantine pest".
- 2. Prepare a risk assessment
- 3. Publish a proposed rule in the Federal Register
- 4. Analyze and respond to public comments
- 5. Publish a final rule in the Federal Register.

The six steps to delisting a plant species, replace step one above with identifying a Federal noxious weed that may <u>no longer</u> meet the definition of "quarantine pest". The remaining steps vary from the listing process by adding an additional step "prepare an environmental assessment if warranted." If needed, environmental assessment may be a time-consuming process.

## NOTE:

To be eligible for listing, a species must meet the definition of noxious weed in the PPA, and the further PPA restriction of having been determined to be new to or not known to be widely prevalent or distributed within and throughout the United States.

If the following list of noxious weeds are not well known to you, it is because many of them are either not present (interdiction targets) or new to or not widely distributed in the US (mostly eradication targets).

State definitions of noxious weed vary (see summary of State laws/quarantines at <u>http://nationalplantboard.org/laws/index.html</u>).

Resources: Alan V. Tasker, 301-734-5708 APHIS – <u>www.aphis.usda.gov</u>

# Terrestrial Weeds Only (Federally regulated aquatic plant and parasitic plant lists are on the APHIS PPQ weeds website

http://www.aphis.usda.gov/ppq/weeds/weedlist2006.pdf ):

Ageratina adenophora (crofton weed) Alternaanthera sessilis (Sessile joyweed) Asphodelus fistulosus (onionweed) Avena sterilis (wild oat) Carthamus oxyacantha (Wild safflower) Chrysopogon aciculatus Commelina benghalensis (Benghal dayflower) Crupina vulgaris (Common crupina) Digitaria scalarum (African couchgrass, fingergrass) Digitaria velutina (velvet fingergrass, annual conchgrass) Drymaria arenariodes (Lightening weed) *Emex australis* (Three-cornered jack) *Emex spinosa* (Devil's thorn) Galega officinalis (Goatsrue) Heracleum mantegazzianum (Giant hogweed) Homeria spp. Imperata brasiliensis (Brazilian satintail) Imperata cylindrical (Cogongrass) Ischaemum rugosum (Murainograss) Leptochloa chinensis (Asian sprangletop) Lycium ferocissimum (African boxthorn) Melastoma malabathricum

Mikania cordata (Mile-a-minute) Mikania micrantha Mimosa invisa (Giant sensitive plant) Mimosa pigra (Catclaw mimosa) Nassella trichotoma (Serrated tussock) Opuntia aurantiaca (Jointed prickly pear) Oryza longistaminata, O. punctata, O. rufipogon (Red rice) Paspalum scrobiculatum (Kodo-millet) Pennisetum spp. including (Kyasumagrass, missiongrass, African feathergrass & Kikuyugrass) Prosopis spp. (25) Rottboellia cochinchinensis Rubus fruticosus (Wild blackberry) Rubus moluccanus (Wild raspberry) Saccharum spontaneum (Wild sugarcane) Salsola vermiculata (Wormleaf salsola) Setaria pallide-fusca (Cattail grass) Solanum torvum (Turkeyberry) Solanum viarum (Tropical soda apple) Spermacoce alata Tridax procumbens (Coat buttons) Urochloa panicoides (Liverseed grass)