



AQUATIC INVASIVE SPECIES IN THE MID-ATLANTIC REGION • VECTOR MANAGEMENT: A PREVENTION SOLUTION

**Mid-Atlantic Panel on Aquatic Nuisance Species
Invasive Species “Of Interest” List**

To help foster communication, coordination, and collaboration across the region, the Mid-Atlantic Panel on Aquatic Nuisance Species assembled a list of species they determined to be “of interest.” This list is intended to help researchers and managers alike analyze the occurrence, movement, prevention, and management of species tracked outside their known range. The Mid-Atlantic Panel identified these species after successive reductions of an original list compiled from existing invasive species databases that contained over 1600 citations for more than 700 species.

The original list went through three iterations to reduce it to a manageable size. The Panel removed species from the list based on findings in the literature and after preliminary discussions among experts. Many of the original 700 species were deemed relatively harmless natives, recorded occasionally or perhaps only once outside their native range. Others were either certainly, probably, or arguably non-aquatic, and some were considered harmless or inconsequential, irrespective of their origin.

Following initial discussions, a semi-final list was presented to the full Panel membership in September 2006. A working session at the Panel’s 2006 Fall Meeting produced the list below of 49 species “Of Interest,” with consensus among the working group and the Panel membership as a whole.

Focus Species List for Mid-Atlantic Panel on Aquatic Invasive Species (MAPAIS):

	Scientific Name	Common Name	MARP State(s) or Region(s) in Which Found According to Available Databases	Database(s)
1	<i>Anguillicola crassus</i>	Eel swimbladder nematode	Chesapeake Bay	NEME
2	<i>Branta canadensis</i>	Canada goose (non-migratory)	MD, Delaware Estuary, Chesapeake Bay	MISC, PSG, NEME
3	<i>Bythotrephes cederstroemi</i>	Spiny water flea	MD, NY	MISC, NYSDEC
4	<i>Carassius auratus</i>	Goldfish	DE, Delaware Estuary, MD, Chesapeake Bay, NC, NJ, NY, PA, VA, WV	NAS, PSG, NEME
5	<i>Carcinus maenas</i>	Green crab	DE, Delaware Estuary, MD, Chesapeake Bay, NJ, NY	DIST, NAS, PSG, MISC, NEME
6	<i>Carex kobomugi</i>	Asiatic sand sedge	NC to MA	Not yet in any of source databases
7	<i>Caulerpa taxifolia</i>	Marine macroalgae	MD	MISC
8	<i>Cercopagis pengoi</i>	Fishhook water flea	NY, PA	NYSDEC, GISD, NAS
9	<i>Channa argus</i>	Northern snakehead	Delaware Estuary, MD, NC, Chesapeake Bay, NC, NY, PA, VA	PSG, GISD, MISC, NAS, NEME, NYSDEC
10	<i>Codium fragile spp tomentosoides</i>	Codium; deadman’s fingers; sputnik-weed; japweed; oyster thief; spaghetti-grass	Chesapeake Bay, DE, MD, NC, NJ, NY, VA	GISD, NEME



For more information, visit:
<http://www.midatlanticpanel.org/ai/ais.htm>

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11	<i>Corbicula fluminea</i>	Asian clam	DE, Delaware Estuary, MD, NC, PA, Chesapeake Bay, NJ, NY, VA, WV	DIST, GISD, NAS, PSG, MISC, NEME, NYSDEC
12	<i>Ctenopharyngodon idella</i>	Diploid grass carp	DE, Delaware Estuary, MD, Chesapeake Bay, NC, NJ, PA, VA, WV	MISC
13	<i>Cygnus olor</i>	Mute swan	Delaware Estuary, MD, NJ, NY, PA, VA, Chesapeake Bay, DE, NC	PSG, MISC, GISD, NEME, DIST
14	<i>Daphnia lumholtzi</i>	Daphnia	Chesapeake Bay, MD, NC	MISC, NEME, NAS
15	<i>Diadumene lineata</i>	Striped sea anemone	Chesapeake Bay, MD	NEME, NAS
16	<i>Dreissena bugensis</i>	Quagga mussel	NY, PA	NYSDEC, GISD
17	<i>Dreissena polymorpha</i>	Zebra mussel	Delaware Estuary, MD, NY, PA, Chesapeake Bay, DE, VA, WV	PSG, MISC, NYSDEC, JC, NEME, DIST, NAS
18	<i>Egeria densa</i> (formerly <i>Elodea densa</i>)	Brazilian elodea	DE, Chesapeake Bay, MD, NJ, NY, PA, VA, NC	GISD, NEME, DIST, MISC
19	<i>Eichhornia crassipes</i>	Water hyacinth	DE, MD, NC, NJ, NY, VA	DIST, GISD, MISC
20	<i>Eriocheir sinensis</i>	Chinese mitten crab	Chesapeake Bay, MD	NEME, NAS, MISC
21	<i>Gambusia affinis</i>	Eastern mosquitofish (non-tidal)	MD, NJ, NC, NY, PA, WV	MISC, NAS
22	<i>Gracilaria vermiculophylla</i>	Red alga	Chesapeake Bay	NEME
23	<i>Hemigrapsus sanguineus</i>	Japanese shore crab	DE, Delaware Estuary, MD, NC, Chesapeake Bay, NJ, NY, VA	DIST, PSG, MISC, NAS, GISD, NEME
24	<i>Heracleum mantegazzianum</i>	Giant hogweed	NC, NY, PA	GISD, JC
25	<i>Hydrilla verticillata</i>	Hydrilla	Delaware Estuary, MD, NC, PA, VA, Chesapeake Bay, DE, NY	PSG, MISC, GISD, JC, NEME, DIST, NYSDEC
26	<i>Hypophthalmichthys spp.</i>	Asian carps	Delaware Estuary, NY, VA, WV	PSG, NAS, NYSDEC
27	<i>Ictalurus furcatus</i>	Blue catfish	Chesapeake Bay, MD, NC, NJ, VA, WV	NAS, NEME
28	<i>Ludwigia peruviana</i>	Peruvian primrose	NC	GISD
29	<i>Lythrum salicaria</i>	Purple loosestrife	Delaware Estuary, DE, MD, Chesapeake Bay, NJ, NC, NY, PA, VA, WV	PSG, DIST, GISD, MISC, NEME, NYSDEC, JC,
30	<i>Microstegium vimineum</i>	Asian stilt grass	DE, Chesapeake Bay, MD, NC, NJ, NY, PA, VA, WV	DIST, GISD, NEME, JC
31	<i>Myocastor coypus</i>	Nutria	DE, Delaware Estuary, MD, Chesapeake Bay, NC, NY, VA	DIST, PSG, MISC, NEME, NAS
32	<i>Myriophyllum aquaticum</i> (formerly <i>brasiliense</i>)	Parrot feather	DE, NC, NJ, NY, VA, WV, Chesapeake Bay, MD	DIST, GISD, NEME, MISC

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33	<i>Myriophyllum spicatum</i>	Eurasian milfoil	DE, Delaware Estuary, MD, NC, NJ, PA, VA, WV, Chesapeake Bay, NY	DIST, GISD, PSG, MISC, NEME, NYSDEC, JC
34	<i>Myxobolus cerebralis</i>	Whirling disease	Chesapeake Bay, MD, NJ, NY, PA, VA, WV	NEME, GISD
35	<i>Neogobis melanostomus</i>	Round goby	NY	NYSDEC
36	<i>Orconectes rusticus</i>	Rusty crayfish	Delaware Estuary, MD, NY, PA, WV, Chesapeake Bay, NC, NJ	PSG, MISC, NAS, GISD, NEME, NYSDEC
37	<i>Orconectes virilis</i>	Virile crayfish	DE, MD, NJ, NY, Chesapeake Bay, NC, PA, VA, WV	GISD, MISC, NAS, NEME
38	<i>Phragmites australis</i>	Phragmites	Delaware Estuary, DE, MD, NC, NJ, NY, PA, VA, WV, Chesapeake Bay	JC, PSG, MISC, GISD, NEME, DIST, NYSDEC
39	<i>Polygonum cuspidatum</i>	Japanese knotweed	Delaware Estuary, MD, PA, Chesapeake Bay	PSG, MISC, JC, NEME
40	<i>Polygonum perfoliatum</i>	Asiatic tearthumb	DE, Chesapeake Bay, MD, NJ, NY, PA, VA, WV	DIST, GISD, NEME, JC
41	<i>Potamogeton crispus</i>	Curly-leaved pondweed	DE, Delaware Estuary, MD, NC, NJ, NY, PA, VA, WV, Chesapeake Bay	GISD, PSG, GISD, MISC, NEME, NYSDEC
42	<i>Potamopyrgus antipodarum</i>	New Zealand mudsnail	NY	NAS
43	<i>Procambarus clarkii</i>	Louisiana crayfish/red swamp crayfish	Chesapeake Bay, DE, MD, NC, NY, VA	GISD, NAS, NEME
44	<i>Pterois volitans</i>	Red lionfish	NC, NJ, NY	NAS
45	<i>Pylodictis olivaris</i>	Flathead catfish	Chesapeake Bay, Delaware Estuary, MD, NC, NJ, NY, PA, VA, WV	NEME, PSG, GISD, NAS
46	<i>Rapana venosa</i>	Rapa whelk	Delaware Estuary, MD, Chesapeake Bay, VA	PSG, MISC, NEME, NAS
47	<i>Salvinia molesta</i>	Giant salvinia	MD, NC	MISC, GISD
48	<i>Trapa natans</i>	Water chestnut	Delaware Estuary, DE, MD, NY, PA, VA, Chesapeake Bay	PSG, MISC, GISD, NEME, DIST, NYSDEC
49	<i>Vitex rotundifolia</i>	Beach vitex	NC	Not yet in any of source databases

Source databases:

DIST – Delaware Invasive Species Tracking system: <http://www.lsc.usgs.gov/gis/dists/intro.asp>

GISD – Global Invasive Species Database: <http://www.invasivespecies.net/database/welcome/>

JC – Juniata College Invasive Species Field Guide: <http://projects.juniata.edu/ess300/Invasives/fieldguide.html>

MISC – Invasive Species of Concern in Maryland: www.mdinvasivesp.org

NAS – USGS Non-Indigenous Aquatic Species Database: <http://nas.er.usgs.gov/queries/default.asp>

NEME – Chesapeake Bay Introduced Species Database: <http://invasions.si.edu/nemesis/chesapeake.html>

NYSDEC – Preliminary list put out on NYSDEC website (New York State Dept. of Environmental Conservation):

<http://www.dec.state.ny.us/website/dfwmr/habitat/erad.html#Invasive>

PSG – Pennsylvania Sea Grant 2002 survey: not online?