

Cheshire region Invasive Non-native Species Initiative Non-native Species Prioritisation List

Cheshire region Invasive Non-native Species Prioritisation List
1. Species widespread in the Cheshire region and requiring control:
<p>Fauna: Vertebrate: Mink, American (<i>Mustela vison</i>);</p> <p>Flora: Balsam, Himalayan (<i>Impatiens glandulifera</i>); Knotweed, Japanese (<i>Polygonum cuspidatum</i>/<i>Fallopia Japonica</i>); Knotweed, Giant x Japanese hybrid (F. sachalinensis x <i>Japonica</i> hybrid); Pygmyweed, New Zealand Pygmyweed (or Australian Swamp Stonecrop) (<i>Crassula helmsii</i>); Spanish bluebell (<i>Hyacinthoides hispanica</i>); Hybrid bluebell (<i>Hyacinthoides hispanica</i> x <i>non-scripta</i>);</p>
2. Species present at specific sites and that require attention (remediation, prevention, eradication, management, containment, Defra licence, etc):
<p>Fauna: Vertebrate: Carp, Grass (<i>Ctenopharyngodon idella</i>); Deer, Muntjac (<i>Muntiacus reevesi</i>); Duck, Ruddy (<i>Oxyura jamaicensis</i>); Goose, Canada (<i>Branta canadensis</i>); Gudgeon, Topmouth (<i>Pseudorasbora parva</i>); Newt, Alpine (<i>Triturus alpestris</i>); Terrapin, European Pond (<i>Emys orbicularis</i>); Wels (European catfish) (<i>Silurus glanis</i>); Parakeet, Ring-necked (<i>Psittacula krameri</i>); Red-eared Terrapin, (<i>Trachemys scripta</i>);</p> <p>Invertebrate: Crab, Chinese mitten (<i>Eriocheir sinensis</i>); Crayfish, Signal (<i>Pacifastacus leniusculus</i>); Flatworm, Australian (<i>Austarlooplana sanguinea</i> var. <i>Alba</i>); Flatworm, New Zealand (<i>Arthurdendyus triangulatus</i>/<i>Artiposthia triangulate</i>); Flatworm (<i>Kontikia andersoni</i>); Flatworm (<i>Kontikia ventrolineta</i>); Harlequin ladybird (<i>Harmonia axyridis</i>); Slipper limpet, (<i>Crepidula fornicate</i>); Zebra mussel, (<i>Dreissena polymorpha</i>); Piddock, American (<i>Petricola pholadiformis</i>);</p> <p>Flora: Archangel, Variegated Yellow (<i>Lamiastrum galeobdolon Argentatum</i>); Buckthorn, Sea (<i>Hippophae rhamnoides</i>); Fern, Water (<i>Azolla filiculoides</i>); Hogweed, Giant (<i>Heracleum mantegazzianum</i>); Knotweed, Giant (<i>Fallopia sachalinensis</i>); Parrot's-feather (or Brazilian Water-milfoil) (<i>Myriophyllum aquaticum</i>); Pennywort, Floating (<i>Hydrocotyle ranunculoides</i>); Rhododendron (<i>Rhododendron ponticum</i>); Rhubarb, Giant (<i>Gunnera tinctoria</i>); Shallon (<i>Gaultheria shallon</i>); Waterweed, Curly (<i>Lagarosiphon major</i>); Monkey flowers, (<i>Mimulus cupreus</i>, <i>M. guttatus</i> and hybrids); Common cord grass, Townsend's grass or ricegrass (<i>Spartina anglica</i>);</p>
3. Species not currently present in the Cheshire region, but present in neighbouring counties and that have potential for impact in the Cheshire region and that require a watching brief:
<p>Fauna: Vertebrate: Bullhead, Black (<i>Ameiurus melas</i>); Pumpkinseed (Sun-fish or Pond-perch) (<i>Lepomis gibbosus</i>); Zander (<i>Stizostedion lucioperca</i>); Aesculapian Snake, (<i>Elaphe longissima</i>);</p> <p>Invertebrate: Crayfish, Noble (<i>Astacus astacus</i>); Crayfish, Spiny-cheek (<i>Orconectes limosus</i>); Gypsy Moth, (<i>Lymantria dispar</i>); Citrus Longhorn beetle (<i>Anoplophora chinensis</i>);</p> <p>Flora: Hyacinth, Water (<i>Eichhornia crassipes</i>); Montbretias (<i>Crocasmia spp</i>); Primrose, Water (<i>Ludwigia grandiflora</i>); Primrose Willow, Floating (<i>Ludwigia peploides</i>);</p>

4. Species which are widespread but whose eradication would cause damage to native species and would require extensive resources but whose spread to other sites should be prevented:

Fauna:

Vertebrate: Bitterling (*Rhodeus sericeus*); European rabbit (*Oryctolagus cuniculus*); Common pheasant, (*Phasianus colchicus colchicus*); Squirrel, Grey (*Sciurus carolinensis*)

Flora:

Waterweeds (or Pondweeds) (*Elodea spp.*) Buddleia (*Buddleia Davidii*); Least duckweed, (*Lemna minuta*); Sycamore (*Acer pseudoplatanus*); Red Valerian (*Centrathus ruber*);

5. Species for which insufficient information was available from those present to be able to prioritise:

Fauna:

Vertebrate: Bass, Large-mouthed Black (*Micropterus salmoides*); Bass, Rock (*Ambloplites rupestris*); Budgerigar (*Melopsittacus undulates*); Deer, Sika (*Cervus Nippon*); Goose, Bar-headed (*Anser indicus*); Goose, Barnacle (*Branta leucopsis*); Goose, Egyptian (*Alopochen aegyptiacus*); Goose, Emperor (*Anser canagicus*); Goose, Snow (*Anser caerulescens*); Guineafowl, Helmeted (*Numida meleagris*); Heron, Night (*Nycticorax nycticorax*); Lovebird, Rosy-faced (*Agapornis roseicollis*); Marmot, Prairie (Prairie Dog) (*Cynomys*); Parakeet, Blue-crowned (*Aratinga acuticaudata*); Parakeet, Monk (*Myiopsitta monachus*); Partridge, (*Chukar Alextoris chukar*); Partridge, Rock (*Alextoris graeca*); Pheasant, Golden (*Chrysolophus pictus*); Pheasant, Green (*Phasianus versicolor*); Pheasant, Lady Amherst's (*Chrysolophus amherstiae*); Pheasant, Reeves' (*Syrnaticus reevesii*); Pheasant, Silver (*Lophura nycthemera*); Pochard, Red-crested (*Netta rufina*); Quail, Bobwhite (*Colinus virginianus*); Rat, Black (*Rattus rattus*); Rat, Common brown (offshore islands only) (*Rattus norvegicus*); Shellduck, Ruddy (*Tadorna ferruginea*); Sunbleak (*Leucaspius delineates*); Toad, African Clawed (*Xenopus laevis*); Toad, Midwife (*Alytes obstetricians*); Toad, Yellow-bellied (*Bombina variegata*); Greylag goose, (*Anser anser*); Marsh Frog, (*Rana ridibunda*); Pool Frog, (*Rana lessonae*); Fire-bellied Toads, (*Bombina sp.*); Midwife Toad, (*Alytes obstetricians*); Clawed Toad, (*Xenopus laevis*); Wall Lizard, (*Podarcis muralis*); Green Lizard (*Lacerta viridis*) or (*L.bilineata*); American Bullfrog, (*Rana catesbeiana*); Trout, American Brook (*Salvelinus fontinalis*); Deer, Fallow (*Dama dama*); Deer, Chinese Water (*Hydropotes inermis*);

Invertebrate: Clam, American hard-shelled (*Mercenaria mercenaria*); Crayfish, Red Swamp (*Procambarus clarkia*); Crayfish, Turkish (*Astacus leptodactylus*); Drill, American oyster (*Urosalpinx cinerea*); Sudden oak death (*Phytophthora ramorum*); Dieback of alder (*Phytophthora alni*); Dutch elm disease (*Ophiostoma novo-ulmi*); Monogenean platyhelminth (*Urocleidus principalis*); Vedalia ladybird (*Rodolia cardinalis*) (Introduced elsewhere as a biocontrol agent). Cypress tip moth (*Argyresthia cupressella*) (On cultivated Cupressaceae including *Juniperus Athrips rancidella* Cotoneaster); a moth, Feeds on junipers, (*Gelechia sabinellus*); Aphid on garden primulas, (*Acyrtosiphon auriculae*); a bee louse (fly) Wingless cleptoparasite of honeybees, (*Braula schmitzi*); a gall midge on *Hemerocallis fulva*, (*Contarinia quinquenotata*); a gall midge on *Gleditsia triacanthos*, (*Dasineura gleditschiae*); a gall midge on *Rhododendron ferrugineum*, (*Dasineura rhododendri*); a leaf-mining fly (*Phytomyza hellebore*) - Leaf-miner on *Helleborus* spp.; a barnacle, (*Elminius modestus*); Worm slug, (*Boettgerilla pallens*); Caruana's or Sicilian Slug, (*Deroceras panormitanum*); Girdled snail, (*Hygromia cinctella*); (alien spp), (*Physa*); Great spruce bark beetle, (*Dendroctonus micans*); a predatory beetle, (*Rhizophagus grandis*); (*Blastobasis decolorella*); a leaf-miner on holm oak, (*Ectoedemia heringella*); a true bug – psyllid, (*Floria variegata*); Freshwater copepod, (*Lernaea cyprinacea*); Freshwater amphipod, (*Crangonyx pseudogracilis*); Barnacle species (*Elminius modestus*); Basidiomycota (*Amanita inopinata*); Basidiomycota Readlead roundhead, (*Stropharia aurantiaca*); Turkish crayfish, (*Astacus leptodactylus*), flatworm, (*Dugesia tigrina*); shrimp, (*Crangonyx pseudogracilis*); freshwater snail, (*Potamopyrgus antipodarum*) (Jenkins' Spire Snail); Alder leaf beetle (*Agelastica alni*); Longhorn beetle, (*Anoplophora glabripennis*); Moth, (*Helicoverpa armigera*); moth, (*Helicoverpa zea*); Ladybird, Striped (*Myzia oblongoguttata*);

Flora:

Alexanders, Perfoliate (*Smyrniium perfoliatum*); Algae, Red (*Grateloupia luxurians*); Azalea, Yellow (*Rhododendron luteum*); Cotoneaster spp (except *Cotoneaster integerrimus* (or *cambrica*)); Dewplant, Purple (*Dysphyma crassifolium*); Duck-potato (*Sagittaria latifolia*); False-acacia (*Robinia pseudoacacia*); Fig, Hottentot (*Carpobrotus edulis*); Garlic, Three-cornered (*Allium triquetrum*); Kelp, Giant (*Macrocystis pyrifera*); Kelp, Giant (*Macrocystis angustifolia*); Kelp, Giant (*Macrocystis integrifolia*); Kelp, Giant (*Macrocystis laevis*); Kelp, Japanese (*Laminaria japonica*); Leek, Few-flowered (*Allium paradoxum*); Lettuce, Water (*Pistia stratiotes*); Oak, Turkey (*Quercus cerris*); Rhododendron hybrid (*R. ponticum x maximum*); Rose, Japanese (*Rosa rugosa*); Salvinia, Giant (*Salvinia molesta*); Seafingers, Green (*Codium fragile tomentosoides*); Seaweed, Californian Red (*Pikea californica*); Seaweed, Hooked Asparagus (*Asparagopsis armata*); Seaweed, Japanese (*Sargassum muticum*); Seaweeds, Laver (except native species) (*Porphyra spp* except:- *p. amethystea* - *p. leucosticte* - *p. linearis* - *p. miniata* - *p. purpurea* - *p. umbilicalis*); Virginia-creeper, False (*Parthenocissus inserta*); Virginia-creeper (*Parthenocissus quinquefolia*); Wakame (*Undaria pinnatifida*); Watershield, Carolina (or Fanwort) (*Cabomba caroliniana*); Common fiddleneck, (*Amsinckia micrantha*); Rape, (*Brassica napus*); Guernsey fleabane, (*Conyza sumatrensis*); Entire-leaved cotoneaster, (*Cotoneaster integrifolius*); Hoary Mustard, (*Hirschfeldia incana*); Flax, (*Linum usitatissimum*); Water bent, (*Polypogon viridis*); Keeled-fruited cornsalad, (*Valerianella carinata*); Ostrich Fern (*Matteuccia struthiopteri*); Turnip (*Brassica rapa*); Cherry Laurel (*Prunus laurocerasus*); Tree Lupin (*Lupinus arboreus*); Fuchsia (*Fuchsia magellanica*); Fuchsia (*Fuchsia 'Riccartoni'*); Large Bindweed (*Calystegia silvatica*); Snowberry (*Symphoricarpos albus*); Hairy Michaelmas Daisy (*Aster novae-angliae*); Pineapple Weed (*Matricaria discoidea*); Winter Heliotrope (*Petasites fragrans*); Crocosmia (*Crocosmia*); Indian Balsam (*Impatiens glandulifera*);

6. Species that were not considered to pose a threat or have the potential to cause problems in the county at this time:

Fauna:

Vertebrate: Coypu (*Myocastor coypus*); Dormouse, Fat (*Glis glis*); Duck, Carolina Wood (*Aix sponsa*); Duck, Mandarin (*Aix galericulata*); Frog, Edible (*Rana esculenta*); Frog, European Tree (Common tree frog) (*Hyla arborea*); Frog, Marsh (*Rana ridibunda*); Gerbil, Mongolian (*Meriones unguiculatus*); Goshawk, Northern (*Accipiter gentiles*); Lizard, Common Wall (*Podarcis muralis*); Newt, Italian Crested (*Triturus carnifex*); Owl, Eagle (*Bubo bubo*); Porcupine, Crested (*Hystrix cristata*); Porcupine, Himalayan (*Hystrix hodgsonii*); Swan, Black (*Cygnus atratus*); Wallaby, Red-necked (*Macropus rufogriseus*); Partridge, Red-legged (*Alectoris rufa*);

Invertebrate: Rose flea beetle (*Luperomorpha xanthodera*) On rose cultivars, *Astilbe* spp., *Erysimum* sp.; Horse chestnut leafminer, (*Cameraria ohridella*);

Flora:

Oak, Evergreen (*Quercus ilex*);