

## Policy Directive 2004-02

Subject: Invasive Nonindigenous Plant Species

Invasive nonindigenous plant species have been intentionally or accidentally introduced into habitats and geographical areas where they did not evolve and have the ability to reproduce and spread without the natural limits present in their native ecosystems. These natural limits include competition, herbivory, disease and other factors. As a result, invasive species become weeds in both altered environments and natural ecosystems, displacing native flora. Invasive species can alter the structure, composition and function of ecosystems. Tree of heaven, purple loosestrife, and kudzu are well known examples of invasive nonindigenous plants.

Nationwide, invasive nonindigenous species cause billions of dollars in damage annually. Although this problem is national and international in scope, there are practical and inexpensive steps that can be taken to address the issue of introduction of invasive nonindigenous plants on lands administered and managed by the Department of Environmental Protection.

On February 27, 2004 Governor James E. McGreevey signed Executive Order #97 mandating the formation of the New Jersey Invasive Species Council and requiring, among others, the development of a comprehensive New Jersey Invasive Species Management Plan. This policy outlines specific actions the Department can take, consistent with the intent of the Executive Order, to limit any further intentional introduction of specified known invasive nonindigenous plants. In particular, the policy is intended to guide Department employees in planning and implementing planting, landscaping and land management activities on Department lands and waters. *The policy is also intended to guide in the planning and implementation of planting, landscaping and land management activities on lands and waters affected through programs administered by the Department, as appropriate.* By prohibiting the use of these harmful nonindigenous plants, it is the intention of the Department to direct its employees to seek and substitute benign indigenous or native species alternatives for planting and landscaping.

### Background

Invasive Nonindigenous Plant Species include plant species that have been intentionally or accidentally introduced into habitats and geographical areas where they did not evolve and have the ability to reproduce and spread without the limits present in their native ecosystems, thereby threatening native biological diversity and/or the integrity of natural ecosystems.

### Policy

Invasive nonindigenous plant species, and all parts thereof, including but not limited to seeds, will not be intentionally introduced, released and/or planted within lands and waters administered by the Department. Refer to the attached list of Invasive Nonindigenous Plant Species, which are unsuitable for use in planting, landscaping, habitat restoration and reforestation in New Jersey.

### Exceptions

Exceptions to this policy may be granted as determined by the Commissioner. Exceptions may include, but are not limited to, botanical gardens and arboreta, historical landscape plantings, and research.

### Implementation

Department land managers will not permit the introduction, release or planting of invasive nonindigenous plant species or any parts thereof on Department lands and waters. Department employees will provide the attached list of Invasive Nonindigenous Plant Species to all consultants and contractors hired to perform landscape design and other plantings to ensure that listed plant species are not used for any Department properties. Department employees, in the course of their official duties, shall discourage the use of invasive nonindigenous plant species when providing advice or consultation to other government entities, non-profit organizations and private individuals, unless identified as an exemption by the Commissioner. Nothing in this Policy Directive shall be construed to prohibit Department land managers from planning and implementing removal or control of invasive nonindigenous plant species, including the use of biocontrol methods, as appropriate, on the lands or waters within their jurisdiction, pending receipt of all applicable approvals for such action.

### Posting

This policy shall be posted at all DEP facilities and made available to the public on the DEP Web site.

► [Appendix to Policy Directive 2004-02 \(Pdf Format\)](#)

Date: October 14, 2004

Bradley M. Campbell  
Commissioner

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## Appendix to Policy Directive 2004-02 Invasive Nonindigenous Plant Species

October, 2004

The following trees, shrubs, vines and herbaceous plants as well as their cultivars are known or believed to be invasive to natural ecosystems in New Jersey. With the exception of common reed (*Phragmites australis*), which is cosmopolitan but may include nonindigenous lineages known to aggressively invade and dominate diverse wetland habitats, all species listed are nonindigenous. While many of these species may be available at commercial nurseries for landscaping, because of their invasive nature, they are not suitable for landscaping of capital improvements, replanting of facilities, or ecological restorations administered by the Department. For each species the common name, scientific name and authority (the person or persons who formally described the plant) are provided. Scientific names should be consulted for accuracy in identifying species. Note that several species may be included under a single common name. The list will be periodically updated based on new information.

This list is intended to provide guidance for planting, landscaping and restorations on Department lands, and does not constitute an official list of invasive nonindigenous plant species for New Jersey. No legislation currently exists mandating the creation of such an official list. In addition to enabling legislation, the creation of an official list of invasive nonindigenous plant species will require additional research, a thorough review by the scientific community and governmental agencies, and an opportunity for public comment.

### Trees

Black locust	<i>Robinia pseudoacacia</i> L.
Callery pear	<i>Pyrus calleryana</i>
Catalpa	<i>Catalpa bignonioides</i> Walter.
Chinese elm	<i>Ulmus parvifolia</i>
Crack willow	<i>Salix fragilis</i> L.
Devil's walking stick	<i>Aralia spinosa</i> L.
Empress tree	<i>Paulownia tomentosa</i> (Thunb.) Steudel.
Japanese cork tree	<i>Phellodendron japonicum</i> Maxim.
Mimosa	<i>Albizia julibrissin</i> Durazz.
Norway maple	<i>Acer platanoides</i> L.
Paper-mulberry	<i>Broussonetia papyrifera</i> (L.) Vent.
Scotch pine	<i>Pinus sylvestris</i> L.
Siberian elm	<i>Ulmus pumila</i> L.
Sweet cherry	<i>Prunus avium</i> L.
Tree of heaven	<i>Ailanthus altissima</i> (Miller) Swingle.
Umbrella tree	<i>Magnolia tripetala</i> (L.) L.
White mulberry	<i>Morus alba</i> L.
White poplar	<i>Populus alba</i> L.
White willow	<i>Salix alba</i> L.
Yellow buckeye	<i>Aesculus flava</i> Ait.

## Shrubs

Amur honeysuckle	<i>Lonicera maackii</i> (Rupr.) Herder
Autumn olive	<i>Elaeagnus umbellata</i> Thunb.
Black alder	<i>Alnus glutinosa</i> (L.) Gaertner.
Bramble	<i>Rubus discolor</i> Weihe & Nees., <i>R. laciniatus</i> Willd., <i>R. phoenicolasius</i> Maxim.
Bush honeysuckles	<i>Lonicera morrowii</i> A. Gray., <i>L. maackii</i> (Rupr.) Maxim.
Butterfly-bush	<i>Buddleja davidii</i> Franchet.
Clammy locust	<i>Robinia viscosa</i> Vent.
Common buckthorn	<i>Rhamnum cathartica</i> L.
Coral-berry	<i>Symphoricarpos orbiculatus</i> Moench
Dog rose	<i>Rosa canina</i> L.
European barberry	<i>Berberis vulgaris</i> L.
European spindle-tree	<i>Euonymus europaeus</i> L.
False indigo-bush	<i>Amorpha fruticosa</i> L.
Fragrant sumac	<i>Rhus aromatica</i> Aiton.
Garden red currant	<i>Ribes sativum</i> Syme.
Japanese barberry	<i>Berberis thunbergii</i> DC.
Japanese holly	<i>Ilex crenata</i> Thunb.
Jetbead	<i>Rhodotypos scandens</i> (Thunb.) Makino
Linden arrow-wood	<i>Viburnum dilatatum</i> Thunb.
Morrow's bush honeysuckle	<i>Lonicera morrowii</i> Gray
Multiflora rose	<i>Rosa multiflora</i> Thunb.
Oriental redtip	<i>Photinia villosa</i> (Thunb.) DC.
Privet	<i>Ligustrum obtusifolium</i> , <i>L. ovalifolium</i> , <i>L. vulgare</i> L.
Rose acacia	<i>Robinia hispida</i> L.
Rugosa rose	<i>Rosa rugosa</i> Thunb.
Russian olive	<i>Elaeagnus angustifolia</i> L.
Scotch broom	<i>Cytisus scoparius</i> (L.) Link.
Shrub lespedeza	<i>Lespedeza thunbergii</i> (DC.) Nakai
Siebold viburnum	<i>Viburnum sieboldii</i> Miq.
Smooth buckthorn	<i>Rhamnus frangula</i> L.
Snowberry	<i>Symphoricarpos albus</i> var. <i>laevigatus</i> (Fern.) S.F. Blake
Sweetbrier	<i>Rosa micrantha</i> J.E. Smith
Tartarian honeysuckle	<i>Lonicera tatarica</i> L.
Winged burning bush	<i>Euonymus alatus</i> (Thunb.) Siebold.
Winter creeper	<i>Euonymus fortunei</i> (Turcz.) Hand.-Maz.

## Vines

Akebia	<i>Akebia quinata</i> (Houtt.) Decne.
Black swallow-wort	<i>Cynanchum louiseae</i> Kartesz & Gandhi
English ivy	<i>Hedera helix</i> L.

Japanese honeysuckle

Kudzu

Mile-a-minute

Matrimony vine

Oriental bittersweet

Periwinkle

Porcelain-berry

Wisteria

Yam-leaved clematis

*Lonicera japonica* var. *chinensis*, *L. japonica* var. *japonica*

*Pueraria lobata* (Willd.) Ohwi.

*Polygonum perfoliatum* L.

*Lycium barbarum* L.

*Celastrus orbiculatus* Thunb.

*Vinca minor* L.

*Ampelopsis brevipedunculata* (Maxim.) Trautv.

*Wisteria floribunda* (Willd.) DC., *W. frutescens* (L.)

Poiret., *W. sinensis* (Sims)

*Clematis terniflora* DC.

## Herbs

Bedstraw

Bitter-cress

Black-eyed Susan

Bull thistle

Bush clover

Butter and eggs

Canada thistle

Chickweed

Chicory

Coltsfoot

Cottonweed

Creeping primrose-willow

Crown-vetch

Curly dock

Cypress spurge

Dame' rocket

Dusty miller

Eurasian water-milfoil

Field garlic

Garlic mustard

Giant chickweed

Giant knotweed

Goosefoot

Goutweed

Ground-ivy

Hawkweed

*Galium mollugo* L., *G. verum* L.

*Cardamine impatiens* L.

*Rudbeckia hirta* var. *pulcherrima* Farw.

*Cirsium vulgare* (Savi) Tenore.

*Lespedeza cuneata* (Dum. Cours.) G. Don.

*Linaria vulgaris* Miller.

*Cirsium arvense* (L.) Scop.

*Cerastium biebersteinii* DC.

*Cichorium intybus* L.

*Tussilago farfara* L.

*Froelichia gracilis* (Hook.) Moq.

*Ludwigia peploides* var. *glabrescens* (Kuntze) Shinnars.

*Coronilla varia* L.

*Rumex crispus* L.

*Euphorbia cyparissias* L.

*Hesperis matronalis* L.

*Artemisia stelleriana* Besser.

*Myriophyllum spicatum* L.

*Allium vineale* L.

*Alliaria petiolata* (Bieb.) Cavara & Grande.

*Myosoton aquatica* (L.) Scop.

*Polygonum sachalinense* F. Schmidt ex Maxim.

*Chenopodium ambrosioides* L.

*Aegopodium podagraria* L.

*Glechoma hederacae* L.

*Hieracium caespitosum* Dumont.,

*H. lachenalii* C. Gmelin., *H. pilosella* L.,

*H. piloselloides* Villars.

*Duchesnea indica* (Andrews) Focke.

*Humulus japonicus* Siebold & Zucc.

*Polygonum cuspidatum* Sieb. & Zucc.

*Euphorbia escula* L.

Indian strawberry

Japanese hops

Japanese knotweed

Leafy spurge

Lesser celandine  
Lobelia  
Moneywort  
Mullein  
Mugwort  
Orange daylily  
Ox-eye daisy  
Bearded beggarticks

Pondweed  
Prince's feather  
Purple loosestrife  
Queen Anne's-lace  
Ragged-robin  
Skeleton-weed  
Speedwell  
Spotted knapweed  
Sweet clover

Teasel  
Thistle

Water-chesnut  
Water starwort  
Water-thyme  
White mullein  
Wild chervil  
Winter-cress

### **Graminoid**

African weeping love grass  
Brome  
Cane  
Canary grass

*Ranunculus ficaria* L.  
*Lobelia chinensis*  
*Lysimachia nummularia* L.  
*Verbascum blattaria* L., *V. thapsus* L.  
*Artemisia vulgaris* L.  
*Hemerocallis fulva* (L.) L.  
*Leucanthemum vulgare* L.  
*Bidens aristosa* (Michx.) Britt. (including *B. polylepis* S.F. Blake)  
*Potamogeton crispus* L.  
*Polygonum orientale* L.  
*Lythrum salicaria* L.  
*Daucus carota* L.  
*Lychnis flos-cuculi* L.  
*Chondrilla juncea* L.  
*Veronica beccabunga* L., *V. hederifolia* L.  
*Centaurea maculosa* Lam.  
*Melilotus officinalis* (L.) Lam., (including *M. albus* Medik.)  
*Dipsacus fullonum* L., *D. laciniatus* L.  
*Carduus acanthoides* L., *C. crispus* L.,  
*C. nutans* L., *Carlina vulgaris* L.  
*Trapa natans* L.  
*Callitriche stagnalis* Scop.  
*Hydrilla verticillata* (L. f.) Royle  
*Verbascum lychnitis* L.  
*Anthriscus sylvestris* (L.) Hoffmann  
*Barbarea verna* (Miller) Aschers., *B. vulgaris* R. Br.

*Eragrostis curvula* (Schrud.) Nees  
*Bromus japonicus* Thunb. ex Murr., *B. tectorum* L.  
*Arundinaria gigantea* (Walter) Chapman.  
*Phalaris canariensis* L.

Chinese silver grass  
Common reed

Japanese sedge  
Japanese stiltgrass  
Meadow fescue  
Small carp grass  
Sweet vernal grass  
Umbrella-sedge

*Miscanthus sinensis* Anderss.  
*Phragmites australis* (Cav.) Trin. (nonindigenous strains only)  
*Carex kobomugi* Ohwi.  
*Microstegium vimineum* (Trin.) A. Camus.  
*Festuca pratensis* Hudson., *F. elatior* L.  
*Arthraxon hispidus* (Thunb.) Makino  
*Anthoxanthum odoratum* L.  
*Cyperus amuricus* Steudel., *C. brevifolioides* Thieret & Delahoussaye., *C. iria* L.