

UNIVERSITY OF MINNESOTA

Twin Cities Campus

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and Pests Center*

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Dear Friends,

The Minnesota Invasive Terrestrial Plants and Pests Center is excited to share the preliminary results of the prioritized, top-124 terrestrial invasive species threats to our state. The goal of this analysis was to identify the “worst of the worst” invasive plants, insects, and pathogens that threaten valued plants in Minnesota’s prairies, forests, wetlands, and agriculture. The results will be used to set MITPPC’s funding priorities for research at the University of Minnesota, including the Research and Outreach Centers across the state. Much of that research funding was made available through Minnesota’s Environment and Natural Resources Trust Fund.

The rankings are the outcome of a structured process. That process involves careful thinking about what it means for any terrestrial invasive species to be the greatest threat to the entire state. That thinking leads to the development of common criteria to measure the degree of threat posed by every species and to assessments of the relative importance of each criterion. We then consult published references and scientific experts to assign ratings to each criterion for each species. Some “math” happens to convert the ratings to priority scores so that all species can be compared and ranked. Before the ranks are finalized, though, we seek your input.

The attached white paper summarizes the rankings of each of the species, the criteria that were considered to compare the species, the ratings that were assigned to each criterion for each species, and a bibliography of literature consulted. This is not meant to be a technical document. We are happy to share any technical details with those who might be interested.

We have three questions for you. First, do you have any additional information or experience to share that might affect the ratings that were assigned to each species? Please note that the ratings for each criterion have specific operational definitions that may not be intuitive. (The definitions are included in this document.) Second, of the 124 taxa that are listed here, which five do you think are the greatest threat to Minnesota? Lastly, would you recommend any additional terrestrial invasive species that are not on this list to be added next year as we update the list? Please go to www.mitppc.umn.edu to provide your feedback. All responses must be received by noon on July 29, 2016.

We wish to thank the faculty and graduate students at the University of Minnesota and valued colleagues at the Minnesota Department of Agriculture and the Minnesota Department of Natural Resources who contributed to this process. We thank you for your interest in MITPPC and your efforts to help the Center succeed.

Sincerely

Robert C. Venette, Ph.D.
Director, MITPPC



Minnesota's Top 124 Terrestrial Invasive Plants and Pests: Priorities for Research

*Science-based solutions to protect
Minnesota's prairies, forests, wetlands,
and agricultural resources*

College of Food, Agricultural
and Natural Resource Sciences

UNIVERSITY OF MINNESOTA

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I. Introduction

This white paper, “Minnesota’s Top 124 Terrestrial Invasive Plants and Pests: Priorities for Research,” describes the outcome of efforts to identify which invasive species pose the greatest threats to Minnesota’s forests, prairies, wetlands, and agriculture. This information will be used to set funding priorities for the Minnesota Invasive Terrestrial Plants and Pests Center (MITPPC) at the University of Minnesota. Funding needs for research on terrestrial invasive species far exceed the resources that are currently available. Thus, a fair, consistent, and transparent process to determine priorities for future research is essential. Those priorities will be reflected in regular requests for proposals.

We welcome your feedback on this white paper. Specifically, we would like to know whether you have any information that could change the criteria ratings that were assigned to each pest (see Sections VII, VIII, and IX). If you would like to propose a change a rating, please be consistent with the definitions and measurement standards that were provided in Section X and provide reference citations or detailed descriptions to support your proposed change. We would also like to know which species among the 124 described here that you would prioritize for research. Lastly, as there are many more than 124 terrestrial invasive threats to the state, we would like to know which additional species should be evaluated next year. Please submit all feedback through the on-line form at mitppc.umn.edu.

What is the MITPPC? The MITPPC was established in the College of Food, Agricultural, and Natural Resource Sciences at the University of Minnesota with support from the Minnesota legislature to “research and develop effective measures to prevent and minimize the threats posed by terrestrial

invasive plants, pathogens, and pests, including weeds and pests, in order to protect the state's native prairies, forests, wetlands, and agricultural resources" (ML 2014, Ch. 312, Art. 13, Sec. 44, Subd. 2). Significant funding was provided from the Environment and Natural Resources Trust Fund. The enabling legislation requires that research undertaken by the MITPPC should be focused on the prioritized species list.

What do we mean by 'invasive terrestrial plants and pests'? For MITPPC, 'invasive' refers to those species that are not native to Minnesota's ecosystems and have the potential to cause economic, environmental, and/or social harms. We focus on those invasive species that dwell primarily on the land, though some species of concern readily move in or along water. During the start-up of MITPPC, we will focus on those invasive species that may affect the abundance or health of valued plants, especially those growing in prairies, forests, wetlands, and/or agriculture. Invasive plants include those "weeds" that compete with, or parasitize, valued plants. For our purposes, invasive 'pests' include non-native pathogens, insects, earthworms, mites, mollusks, vertebrates that can harm valued plants.

Why invest in invasive species research? Terrestrial invasive species cost Minnesotans approximately \$3 billion annually in lost productivity and increased management costs. They threaten the integrity of ecosystems that provide wildlife habitat, clean water, and fresh air. Every ecosystem in every corner of the state is vulnerable to invasion. Thus, many Minnesotans are actively working to prevent or limit damage from terrestrial invasive species. Research is needed to provide those individuals with new technologies and techniques to ensure management goals are achieved or to provide confidence that current management approaches are effective.

How was the prioritization done? The Minnesota Invasive Terrestrial Plants and Pests Center undertook an expansive research prioritization to systematically evaluate threats posed by a wide array of terrestrial invasive insects, plants, and plant pathogens. Fourteen panelists were identified, six from the faculty at the University of Minnesota and eight program managers with advanced degrees from partner agencies (Section II). In total, these panelists identified over 120 significant invasive plants, pathogens, or insects that threaten Minnesota's agriculture, forests, wetlands, or prairies. An Analytical Hierarchy Process (AHP) was used to rank these threats. AHP is a form of multi-criteria decision analysis that makes the process of selecting the highest priority threats consistent and transparent. AHP has been used by many agencies and organizations to facilitate complex decision making. In brief, the fourteen member panel engaged in facilitated discussions about criteria by which terrestrial invasive plants and pests should be considered a high threat and the relative importance of each criterion.

The panel identified 17 criteria to measure the "unmanaged biological threat" that each species poses to Minnesota. These criteria were based on the panelists' previous experiences with invasive species and interpretations of published literature. Each criterion (listed in Section III) had to be relevant to all invasive species that have invaded, or might invade, the state. As part of the AHP, the relative importance of each criterion was determined by a questionnaire submitted to all panelists. Panelists were presented with the criteria in pairs and asked which of the two options was more important (on a scale of 1-7) to determine the unmanaged threat a species might pose to the state. Responses from the panel were analyzed with Comparison Core software, and results presented to the panelists. Each of the 17 criteria were not equally important (Section III). More emphasis was placed on the impact that an invasive species might have than on its likelihood of invasion.

A team of six graduate students (Section II) was then hired to assemble published information about the 124 species and provide summaries of that information with respect to the 17 criteria. MITPPC's

Director evaluated the information and assigned initial ratings based on measurement standards for each criterion (Sections VII, VIII, and IX). Those ratings were used in the AHP to compare and rank all 124 species.

The prioritization panel reconvened to review the rankings from the AHP. Panelists examined the results, verified or revised ratings, and readjusted priorities assigned to criteria as needed. The rankings in this document represent the outcome of the revised information.

Why this process? Our broad challenge is to identify research priorities that transcend the goals and values of any individual or institution in the state so that research from MITPPC has benefits for multiple stakeholders. The challenge is difficult because the priorities are derived from differing opinions on invasive species. Our hope is that MITPPC's priorities will be consistent with, though perhaps not identical to, many priorities of other individuals and institutions.

There is no perfect approach to prioritization. Some have suggested, "Why not vote?" Voting can appeal to a sense of democracy, but the outcome reflects who voted. This process is limited to the options available at the time the vote occurs and can lead to substantially different priorities from one vote to another. A new threat cannot easily be considered a priority until a new vote is taken. Further, as more is learned about the biology and behavior of these species, the potential impact of that research on opinions and subsequent priorities is not always clear.

We chose the AHP for three primary reasons. Firstly, the nature of the process forces the discussion from which species should be most important (perhaps for unknown reasons) to which attributes make a species important. We believe this exercise provides greater transparency in the decision-making process. Secondly, AHP easily allows for additional threats to be considered in the future without undoing the original work. We believe such an approach provides flexibility to our prioritizations over time while maintaining some consistency. Lastly, AHP allows us to easily revise priority scores and rankings as new information is gathered about these threats.

AHP has some limitations. The most significant issue is that the process does not work well for species that might be threats to the state, but experts are highly uncertain. We relied on an expert-driven process to identify the top terrestrial-invasive-species threats to Minnesota, and we trust those judgements. A separate process could be developed to pre-screen species, for example, some European species that are not yet in North America, to determine if enough is known to consider them a legitimate threat to the state. In addition, AHP provides a single score for each invasive species without a "margin of error." The margin of error can be important when the quality of information is highly variable from species to species. There is certainly some margin for error in each of the priority scores that reflects limits to our knowledge about these species. The scores are a reflection of the best available information, and are useful for priority setting. However, our knowledge about these species and how they might affect the entire state can be limited, especially for species that are new to the region. The process is most useful for structuring a research program to respond to known threats, not for determining whether some species might pose a threat.

We fully intend to update the priorities on a regular basis, no later than every other year. The updates will allow us to consider more species and to review new information that may affect our threat scores. Managing biological invasions is a dynamic process, so our prioritizations must be flexible to a degree.

II. Prioritization Panel members

We thank the following individuals for their extensive, valuable contributions to this prioritization process.

Insects

- Mark Abrahamson, Pest Detection and Response Unit Supervisor, Plant Protection Division, Minnesota Department of Agriculture
- Brian Aukema,*McKnight-Land Grant Professor and Associate Professor, Department of Entomology, UMN
- Robert Koch, Assistant Professor and Extension Entomologist, Department of Entomology, UMN
- Val Cervenka, Forest Health Program Coordinator, Division of Forestry, Minnesota Department of Natural Resources

Pathogens

- Robert Blanchette, Professor, Department of Plant Pathology, UMN
- Susan Burks, Invasive Species Program Coordinator, Minnesota Department of Natural Resources
- Kathryn Kromroy, Research Scientist, Minnesota Department of Agriculture
- Deborah Samac,* Adjunct Professor, Department of Plant Pathology, UMN (USDA-ARS Plant Science Research)
- Brian Schwingle, Forest Health Specialist, Minnesota Department of Natural Resources

Plants

- Roger Becker, Professor, Department of Agronomy and Extension Agronomist, UMN
- Monika Chandler, Biological control and terrestrial invasive plant early detection, Minnesota Department of Agriculture
- Anthony Cortilet, Noxious Weed Law, Minnesota Department of Agriculture
- Rebecca Montgomery,* Associate Professor, Department of Forest Resources, UMN
- Laura Van Riper, Terrestrial Invasive Species Coordinator, Minnesota Department of Natural Resources

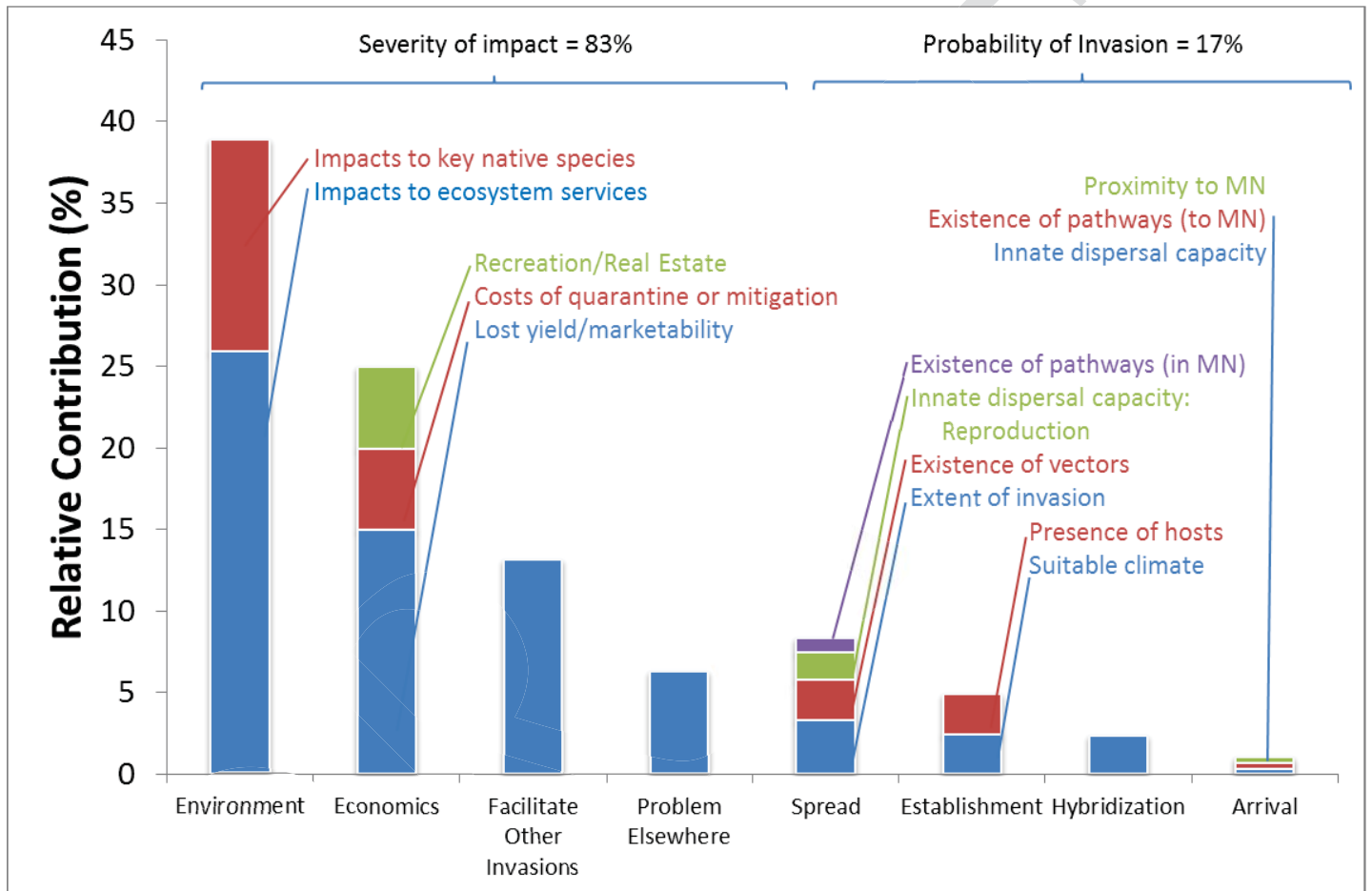
*Panel chair

Graduate students (degree being pursued; home department)

- Aaron David, Ph.D., Department of Ecology, Evolution, and Behavior, UMN
- Genevieve Furtner, M.B.S., College of Continuing Education, UMN
- Melissa Peck, M.S., Department of Natural Resource Science Management, UMN
- Derik Olson, M.S., Department of Forest Resources, UMN
- Ashley Reichard, M.S., Department of Natural Resource Science Management, UMN
- Roxanne Sage, M.S., Département de Biologie, Chimie et Géographie, Université du Québec à Rimouski (UQAR)

III. Seventeen criteria, and their relative importance, to assess the threat a terrestrial invasive species poses to Minnesota

The graph below shows the relative contribution of each criterion to the final priority score. The priority score measures the level of threat posed by different terrestrial invasive species to Minnesota. In general, the seven criteria associated with the severity of impact contributed 83% to the final priority scores. The ten criteria associated with the probability of invasion contributed 17% to the final priority scores.



IV. Prioritized list of terrestrial invasive insects

This list describes the ranked order of terrestrial invasive insects that threaten Minnesota and is organized from greatest statewide threat (highest priority) to least threat (lowest priority).

| Rank | Scientific name | Common name | Priority Score |
|------|------------------------------------|--------------------------------|----------------|
| 1 | <i>Dendroctonus ponderosae</i> | mountain pine beetle | 100.00 |
| 2 | <i>Agrilus planipennis</i> | emerald ash borer | 96.45 |
| 3 | <i>Aphis glycines</i> | soybean aphid | 88.81 |
| 4 | <i>Halyomorpha halys</i> | brown marmorated stink bug | 84.75 |
| 5 | <i>Lymantria dispar dispar</i> | gypsy moth, European | 84.75 |
| 6 | <i>Lymantria dispar asiatica</i> | gypsy moth, Asian | 84.73 |
| 7 | <i>Scolytus schevyrewi</i> | banded elm bark beetle | 84.30 |
| 8 | <i>Scolytus mulistriatus</i> | European elm bark beetle | 81.38 |
| 9 | <i>Anoplophora glabripennis</i> | Asian longhorned beetle | 76.65 |
| 10 | <i>Eupoecilia ambiguella</i> | European grape berry moth | 76.20 |
| 11 | <i>Helicoverpa armigera</i> | old world bollworm | 74.64 |
| 12 | <i>Sirex noctilio</i> | Sirex woodwasp | 74.05 |
| 13 | <i>Drosophila suzuki</i> | spotted wing drosophila | 73.76 |
| 14 | <i>Spodoptera littoralis</i> | Egyptian cottonworm | 73.14 |
| 15 | <i>Agrilus biguttatus</i> | oak splendor beetle | 72.71 |
| 16 | <i>Tetropium fuscum</i> | brown spruce longhorned beetle | 71.92 |
| 17 | <i>Ips typographus</i> | European spruce bark beetle | 70.56 |
| 18 | <i>Chrysodeixis chalcites</i> | golden twin spot moth | 70.05 |
| 19 | <i>Adelges picea</i> | balsam woolly adelgid | 69.70 |
| 20 | <i>Diabrotica speciosa</i> | cucurbit beetle | 69.47 |
| 21 | <i>Pityophthorus juglandis</i> | walnut twig beetle | 66.17 |
| 22 | <i>Autographa gamma</i> | silver Y moth | 65.33 |
| 23 | <i>Rhizotrogus majalis</i> | European chafer | 65.21 |
| 24 | <i>Leguminivora glycinivorella</i> | soybean pod borer | 64.90 |
| 25 | <i>Tipula oleracea</i> | European crane flies | 64.08 |
| 26 | <i>Epiphyas postvittana</i> | light brown apple moth | 63.76 |
| 27 | <i>Popillia japonica</i> | Japanese beetle | 63.36 |
| 28 | <i>Tipula paludosa</i> | European crane flies | 62.47 |
| 29 | <i>Coleophora laricella</i> | larch casebearer | 61.43 |
| 30 | <i>Acrolepiopsis assectella</i> | leek moth | 61.08 |
| 31 | <i>Orgyia pseudotsugata</i> | Douglas fir tussock moth | 60.76 |
| 32 | <i>Contarinia nasturtii</i> | swede midge | 58.31 |
| 33 | <i>Agrilus sulicollis</i> | European oak borer | 57.17 |
| 34 | <i>Lycorma delicatula</i> | spotted lanternfly | 55.95 |
| 35 | <i>Tomicus piniperda</i> | European shoot beetle | 53.92 |
| 36 | <i>Lilioceris lili</i> | lily leaf beetle | 53.60 |
| 37 | <i>Operophtera brumata</i> | winter moth | 52.73 |
| 38 | <i>Lobesia botrana</i> | European grapevine moth | 51.99 |
| 39 | <i>Pyrrhalta viburni</i> | viburnum leaf beetle | 51.81 |
| 40 | <i>Yponomeuta malinellus</i> | apple ermine moth | 45.63 |

By virtue of appearing on this list, each species is a credible threat to one or more communities or ecosystems in the state. Other threats exist, so this list will be updated annually. This list is only intended to direct research at the University of Minnesota to discover new management tools to prevent or mitigate the impacts from the most threatening species.

V. Prioritized list of terrestrial invasive plant pathogens

This list describes the ranked order of terrestrial invasive plant pathogens that threaten Minnesota and is organized from greatest statewide threat (highest priority) to least threat (lowest priority).

| Rank | Scientific name | Common name | Priority Score |
|------|---|-------------------------------------|----------------|
| 1 | <i>Ophiostoma novo-ulmi</i> | Dutch elm disease | 84.24 |
| 2 | <i>Ceratocystis fagacearum</i> | oak wilt | 81.97 |
| 3 | <i>Raffaelea quercivora</i> | Japanese oak wilt | 81.10 |
| 4 | <i>Heterobasidium irregulare</i> | Annosum root rot | 78.92 |
| 5 | <i>Phytophthora ramorum</i> | sudden oak death | 72.94 |
| 6 | <i>Geosmithia morbida</i> | thousand cankers disease | 72.90 |
| 7 | <i>Aster yellows phytoplasma</i> | aster yellows | 71.51 |
| 8 | <i>Arceuthobium americanum</i> | dwarf mistletoe | 70.98 |
| 9 | <i>Ralstonia solanacearum</i> (Race 3, biovar 2) | brown rot | 70.92 |
| 10 | <i>Cronartium ribicola</i> | white pine blister rust | 70.72 |
| 11 | <i>Hymenoscyphus fraxineus (pseudoalbidus)</i> | ash dieback | 70.20 |
| 12 | <i>Tilletia controversa</i> (cereal strain) | Dwarf bunt | 69.23 |
| 13 | <i>Fusarium virguliforme</i> | soybean sudden death | 68.02 |
| 14 | <i>Phytophthora infestans</i> | late blight | 67.33 |
| 15 | <i>Fusarium graminearum</i> | Fusarium head blight | 66.09 |
| 16 | <i>Amylostereum areolatum</i> | associate fungus to Sirex woodwasp | 65.90 |
| 17 | <i>Phytophthora alni</i> ssp. <i>alni</i> | alder disease | 65.45 |
| 18 | <i>Harpophora maydis</i> | late wilt of corn | 64.04 |
| 19 | <i>Ophiognomonia clavigenti-juglandacearum</i> | butternut canker | 63.92 |
| 20 | <i>Fusarium euwallaceae</i> | dieback; wilt | 63.42 |
| 21 | <i>Phakospora pachyrhizii</i> | soybean rust | 63.06 |
| 22 | <i>Urocystis agropyri</i> | wheat flag smut | 62.12 |
| 23 | <i>Plasmodiophora brassicae</i> | club root | 62.08 |
| 24 | <i>Candidatus phytoplasma mali</i> | apple proliferation phyoplasma | 61.87 |
| 25 | <i>Pseudoperonospora cubensis</i> | Downy mildew of cucurbits | 61.62 |
| 26 | <i>Ditylenchus dipsaci</i> | stem and bulb nematode | 60.90 |
| 27 | <i>Clavibacter michigensis</i> ssp. <i>nebraskensis</i> | Goss's wilt | 60.61 |
| 28 | CGMMV | Cucumber green mottle mosaic virus | 59.49 |
| 29 | <i>Phytophthora kernoviae</i> | dieback of several woody plants | 59.32 |
| 30 | <i>Lachnellula willkommii</i> | European larch canker | 59.04 |
| 31 | <i>Gibberlla circinata</i> (anamorph = <i>Fusarium circinatum</i>) | pitch canker | 58.78 |
| 32 | <i>Curtobacterium flaccumfaciens</i> | bacterial wilt | 55.46 |
| 33 | <i>Plasmopara obducens</i> | Impatiens downy mildew | 52.49 |
| 34 | <i>Phytophthora austrocedri</i> | juniper dieback | 52.48 |
| 35 | <i>Phytophthora alni</i> ssp. <i>uniformis</i> | alder disease | 50.96 |
| 36 | <i>Phytophthora hedraiondra</i> | beech, azalea, and Viburnum dieback | 50.41 |
| 37 | <i>Phytophthora cinnamomi</i> | ink disease on chestnut and oak | 49.61 |
| 38 | <i>Peronospora belbahrii</i> | basil downy mildew | 46.34 |
| 39 | <i>Clavibacter michigenensis</i> ssp. <i>michigenensis</i> | bacterial wilt of tomato | 43.94 |

By virtue of appearing on this list, each species is a credible threat to one or more communities or ecosystems in the state. Other threats exist, so this list will be updated annually. This list is only intended to direct research at the University of Minnesota to discover new management tools to prevent or mitigate the impacts from the most threatening species.

VI. Prioritized list of plants (weeds)

This list describes the ranked order of terrestrial invasive plants that threaten Minnesota and is organized from greatest statewide threat (highest priority) to least threat (lowest priority).

| Rank | Scientific name | Common name | Priority Score |
|------|---|--|----------------|
| 1 | <i>Centaurea stoebe</i> ssp. <i>micranthos</i> | spotted knapweed | 93.35 |
| 2 | <i>Tanacetum vulgare</i> | common tansy | 91.39 |
| 3 | <i>Lonicera morrowii</i> | Morrow's honeysuckle | 89.55 |
| 4 | <i>Frangula alnus</i> | glossy buckthorn | 86.73 |
| 5 | <i>Phragmites australis</i> ssp. <i>australis</i> | European common reed | 86.32 |
| 6 | <i>Lonicera tatarica</i> | Tatarian honeysuckle | 85.14 |
| 7 | <i>Rhamnus cathartica</i> | European buckthorn | 84.38 |
| 8 | <i>Cirsium arvense</i> | Canada thistle | 82.76 |
| 9 | <i>Euphorbia esula</i> | leafy spurge | 79.05 |
| 10 | <i>Pastinaca sativa</i> | wild parsnip | 78.86 |
| 11 | <i>Polygonum cuspidatum</i> | Japanese knotweed | 78.28 |
| 12 | <i>Phalaris arundinacea</i> | reed canarygrass | 78.18 |
| 13 | <i>Carduus acanthoides</i> | spiny plumeless thistle | 77.39 |
| 14 | <i>Coronilla varia</i> | crown vetch | 77.32 |
| 15 | <i>Alliaria petiolata</i> | garlic mustard | 76.38 |
| 16 | <i>Berberis thunbergii</i> | Japanese barberry and hybrids | 74.87 |
| 17 | <i>Celastrus orbiculatus</i> | oriental bittersweet | 74.87 |
| 18 | <i>Polygonum sachalinense</i> | Japanese knotweed | 74.47 |
| 19 | <i>Vincetoxicum nigrum</i> | black dog-strangling vine, black swallowwort | 74.16 |
| 20 | <i>Amaranthus palmeri</i> | Palmer amaranth | 73.72 |
| 21 | <i>Berberis vulgaris</i> | common barberry and hybrids | 72.84 |
| 22 | <i>Acer platanoides</i> | Norway maple | 71.85 |
| 23 | <i>Centaurea debeauxii</i> | meadow knapweed | 71.69 |
| 24 | <i>Linaria dalmatica</i> | Dalmatian toadflax | 71.58 |
| 25 | <i>Melilotus officinalis</i> | yellow sweetclover | 71.49 |
| 26 | <i>Centaurea solstitialis</i> | yellow star thistle | 71.46 |
| 27 | <i>Kochia scoparia</i> | Mexican fireweed | 71.30 |
| 28 | <i>Melilotus alba</i> | white sweetclover | 70.33 |
| 29 | <i>Humulus japonicus</i> | Japanese hops | 70.09 |
| 30 | <i>Cynoglossum officinale</i> | houndstongue | 69.68 |
| 31 | <i>Rosa multiflora</i> | multiflora rose | 69.26 |
| 32 | <i>Berteroa incana</i> | hoary alyssum | 69.09 |
| 33 | <i>Lotus corniculatus</i> | birdsfoot trefoil | 68.72 |
| 34 | <i>Heracleum mantegazzianum</i> | giant hogweed | 64.95 |
| 35 | <i>Hieracium auranticum</i> | orange hawkweed | 60.52 |
| 36 | <i>Hieracium caespitosum</i> | meadow hawkweed | 60.46 |
| 37 | <i>Cardamine impatiens</i> | narrowleaf bittercress | 57.73 |
| 38 | <i>Caragana arborescens</i> | Siberian peashrub | 57.16 |
| 39 | <i>Euonymus alatus</i> | winged burning bush | 56.39 |
| 40 | <i>Digitalis lanata</i> | Grecian foxglove | 56.00 |
| 41 | <i>Dipsacus fullonum</i> | common teasel | 55.59 |
| 42 | <i>Dipsacus laciniatus</i> | cutleaf teasel | 55.59 |
| 43 | <i>Conium maculatum</i> | poison hemlock | 54.15 |
| 44 | <i>Daucus carota</i> | Queen Anne's lace, wild carrot | 52.84 |
| 45 | <i>Torilis japonica</i> | Japanese hedge-parsley | 48.01 |

By virtue of appearing on this list, each species is a credible threat to one or more communities or ecosystems in the state. Other threats exist, so this list will be updated annually. This list is only intended to direct research at the University of Minnesota to discover new management tools to prevent or mitigate the impacts from the most threatening species.

VII. Terrestrial invasive insects (alphabetically by common name): criteria ratings to determine threat to Minnesota.

| | apple ermine moth | Asian longhorned beetle | balsam woolly adelgid | banded elm bark beetle | brown marmorated stink bug |
|--------------------------------------|------------------------------|---------------------------------|-----------------------|----------------------------|----------------------------|
| | <i>Yponomeuta malinellus</i> | <i>Anoplophora glabripennis</i> | <i>Adelges picea</i> | <i>Scolytus schevyrewi</i> | <i>Halyomorpha halys</i> |
| Proximity to MN | Medium | Medium | Medium | Very High | Very High |
| Existence of pathways (to MN) | Medium | Medium | Medium | High | High |
| Innate dispersal capacity | Moderate | Low | Mly-Low | Mly-Low | Mly-Low |
| Climatic suitability | High | High | Medium | Medium | Medium |
| Presence of hosts | Low | High | High | High | High |
| Hybridization/host shift | High | Low | Low | Low | Low |
| Existence of pathways (in MN) | Medium | Medium | Medium | High | High |
| Dispersal capacity: Reproduction | Low | Low | High | High | High |
| Extent of invasion | Mly-Low | Low | Mly-Low | Moderate | Moderate |
| Existence of non-human vectors | Negligible | Negligible | High | Negligible | Negligible |
| Problem elsewhere | Medium | High | Medium | High | High |
| Impacts to yield or marketability | Low | Medium | Medium | Low | High |
| Quarantine or mitigation costs | Medium | High | Medium | Medium | High |
| Impacts to recreation or real estate | Low | High | Low | Low | Medium |
| Conseq. to native species | 1 | 4 | 2 | 3 | 2 |
| Conseq. to ecosystem services | 0 | 1 | 2 | 3 | 1 |
| Facilitate other invasions | Low | Low | Low | High | Medium |

| | brown spruce longhorned beetle | cucurbit beetle | Douglas fir tussock moth | Egyptian cottonworm | emerald ash borer |
|--------------------------------------|--------------------------------|----------------------------|-----------------------------|------------------------------|----------------------------|
| | <i>Tetropium fuscum</i> | <i>Diabrotica speciosa</i> | <i>Orgyia pseudotsugata</i> | <i>Spodoptera littoralis</i> | <i>Agrilus planipennis</i> |
| Proximity to MN | Medium | Low | Medium | Low | Very High |
| Existence of pathways (to MN) | Medium | Low | Medium | Low | High |
| Innate dispersal capacity | Mly-Low | Mly-Low | Mly-Low | Very High | Mly-Low |
| Climatic suitability | High | Low | Medium | High | High |
| Presence of hosts | High | High | Medium | High | High |
| Hybridization/host shift | Low | Low | Low | Low | High |
| Existence of pathways (in MN) | Medium | Medium | Medium | Medium | High |
| Dispersal capacity: Reproduction | Low | High | Medium | High | Low |
| Extent of invasion | Mly-Low | Mly-Low | Low | High | High |
| Existence of non-human vectors | Negligible | Negligible | Negligible | Negligible | Negligible |
| Problem elsewhere | Medium | High | Medium | High | High |
| Impacts to yield or marketability | High | High | Low | High | Low |
| Quarantine or mitigation costs | High | High | Low | High | High |
| Impacts to recreation or real estate | Medium | Low | Medium | Low | High |
| Conseq. to native species | 3 | 1 | 3 | 2 | 4 |
| Conseq. to ecosystem services | 0 | 0 | 2 | 0 | 3 |
| Facilitate other invasions | Low | Medium | Low | Low | High |

Terrestrial invasive insects: criteria ratings to determine threat to Minnesota (cont.)

| | European chafer | European craneflies | European craneflies | European elm bark beetle | European grape berry moth |
|--------------------------------------|----------------------------|------------------------|------------------------|------------------------------|------------------------------|
| | <i>Rhizotrogus majalis</i> | <i>Tipula oleracea</i> | <i>Tipula paludosa</i> | <i>Scolytus mulistriatus</i> | <i>Eupoecilia ambiguella</i> |
| Proximity to MN | High | Medium | High | Very High | Low |
| Existence of pathways (to MN) | Medium | Medium | Medium | High | Low |
| Innate dispersal capacity | Mly-Low | Mly-Low | Low | Mly-Low | Mly-Low |
| Climatic suitability | High | Low | Negligible | Medium | High |
| Presence of hosts | High | High | High | High | Medium |
| Hybridization/host shift | Low | Low | Low | Low | Low |
| Existence of pathways (in MN) | Medium | Medium | Medium | High | Medium |
| Dispersal capacity: Reproduction | Low | High | Medium | High | High |
| Extent of invasion | Mly-Low | Low | Low | Moderate | Moderate |
| Existence of non-human vectors | Negligible | Negligible | Negligible | Negligible | Negligible |
| Problem elsewhere | High | High | High | Medium | High |
| Impacts to yield or marketability | Medium | Medium | Medium | Low | Medium |
| Quarantine or mitigation costs | High | High | High | Medium | High |
| Impacts to recreation or real estate | Medium | Medium | Medium | Low | Low |
| Conseq. to native species | 2 | 2 | 2 | 3 | 2 |
| Conseq. to ecosystem services | 0 | 0 | 0 | 3 | 0 |
| Facilitate other invasions | Low | Low | Low | High | High |

| | European grapevine moth | European oak borer | European shoot beetle | European spruce bark beetle | golden twin spot moth |
|--------------------------------------|-------------------------|--------------------------|--------------------------|-----------------------------|-------------------------------|
| | <i>Lobesia botrana</i> | <i>Agilus sulicollis</i> | <i>Tomicus piniperda</i> | <i>Ips typographus</i> | <i>Chrysodeixis chalcites</i> |
| Proximity to MN | Medium | Medium | Very High | Low | High |
| Existence of pathways (to MN) | Medium | Medium | High | Medium | Medium |
| Innate dispersal capacity | Mly-Low | Low | Mly-Low | Mly-Low | Low |
| Climatic suitability | Low | Medium | High | Medium | Medium |
| Presence of hosts | Medium | High | High | High | High |
| Hybridization/host shift | Low | Low | Low | Low | Low |
| Existence of pathways (in MN) | Medium | Medium | Medium | Medium | Medium |
| Dispersal capacity: Reproduction | High | Low | Low | Low | High |
| Extent of invasion | Low | Low | Low | Mly-Low | Moderate |
| Existence of non-human vectors | Negligible | Negligible | Negligible | Negligible | Negligible |
| Problem elsewhere | High | Medium | High | High | High |
| Impacts to yield or marketability | Low | Low | Low | Low | Low |
| Quarantine or mitigation costs | Medium | Low | Low | High | High |
| Impacts to recreation or real estate | Low | Low | Low | Medium | Low |
| Conseq. to native species | 2 | 2 | 3 | 3 | 2 |
| Conseq. to ecosystem services | 0 | 1 | 0 | 1 | 0 |
| Facilitate other invasions | Low | Medium | Low | Medium | High |

Terrestrial invasive insects: criteria ratings to determine threat to Minnesota (cont.)

| | gypsy moth, Asian | gypsy moth, European | Japanese beetle | larch casebearer | leek moth |
|--------------------------------------|--------------------------------------|------------------------------------|------------------------------|---------------------------------|-------------------------------------|
| Criterion | <i>Lymantria dispar asiatica</i> | <i>Lymantria dispar dispar</i> | <i>Popillia japonica</i> | <i>Coleophora laricella</i> | <i>Acrolepiopsis assectella</i> |
| Proximity to MN | Low | Very High | Very High | Very High | High |
| Existence of pathways (to MN) | Medium | High | High | High | Medium |
| Innate dispersal capacity | Mly-Low | Mly-Low | Mly-Low | Mly-Low | Mly-Low |
| Climatic suitability | High | High | High | High | High |
| Presence of hosts | High | High | High | High | Low |
| Hybridization/host shift | Medium | Medium | Low | Low | Low |
| Existence of pathways (in MN) | Medium | High | High | High | High |
| Dispersal capacity: Reproduction | Medium | Medium | Low | Low | High |
| Extent of invasion | Very High | High | Very High | High | Mly-Low |
| Existence of non-human vectors | Negligible | Negligible | Negligible | Negligible | Negligible |
| Problem elsewhere | High | High | Medium | High | Medium |
| Impacts to yield or marketability | Low | Low | Low | Low | Low |
| Quarantine or mitigation costs | High | High | High | Low | Low |
| Impacts to recreation or real estate | Medium | Medium | Medium | Low | Low |
| Conseq. to native species | 3 | 3 | 2 | 3 | 2 |
| Conseq. to ecosystem services | 3 | 3 | 1 | 1 | 0 |
| Facilitate other invasions | Medium | Medium | Low | Low | High |

| | light brown apple moth | lily leaf beetle | mountain pine beetle | oak splendor beetle | old world bollworm |
|--------------------------------------|---------------------------------|------------------------|------------------------------------|-------------------------------|---------------------------------|
| Criterion | <i>Epiphyas postvittana</i> | <i>Lilioceris lili</i> | <i>Dendroctonus ponderosae</i> | <i>Agrilus biguttatus</i> | <i>Helicoverpa armigera</i> |
| Proximity to MN | Medium | High | High | Low | Medium |
| Existence of pathways (to MN) | Medium | Medium | High | Medium | Medium |
| Innate dispersal capacity | Low | Mly-Low | Mly-Low | Mly-Low | Very High |
| Climatic suitability | Negligible | High | Medium | High | High |
| Presence of hosts | High | High | High | High | High |
| Hybridization/host shift | High | Low | High | Low | High |
| Existence of pathways (in MN) | Medium | Medium | Medium | High | Medium |
| Dispersal capacity: Reproduction | High | Medium | Low | Low | High |
| Extent of invasion | Low | High | Moderate | Moderate | Moderate |
| Existence of non-human vectors | Negligible | Negligible | Negligible | Negligible | Negligible |
| Problem elsewhere | High | Medium | High | High | High |
| Impacts to yield or marketability | Low | Low | Medium | Low | High |
| Quarantine or mitigation costs | Low | Medium | Medium | High | High |
| Impacts to recreation or real estate | Low | Low | High | Medium | Low |
| Conseq. to native species | 2 | 2 | 3 | 3 | 2 |
| Conseq. to ecosystem services | 0 | 0 | 4 | 1 | 0 |
| Facilitate other invasions | High | Low | High | Medium | Low |

Terrestrial invasive insects: criteria ratings to determine threat to Minnesota (cont.)

| | silver Y moth | Sirex woodwasp | soybean aphid | soybean pod borer | spotted lanternfly |
|--------------------------------------|-------------------------|-----------------------|-----------------------|------------------------------------|---------------------------|
| | <i>Autographa gamma</i> | <i>Sirex noctilio</i> | <i>Aphis glycines</i> | <i>Leguminivora glycinivorella</i> | <i>Lycorma delicatula</i> |
| Proximity to MN | Low | Medium | Very High | Low | Medium |
| Existence of pathways (to MN) | Medium | Medium | High | Low | Medium |
| Innate dispersal capacity | Very High | Mly-Low | Very High | Mly-Low | Mly-Low |
| Climatic suitability | Medium | High | High | Medium | Low |
| Presence of hosts | High | High | High | High | High |
| Hybridization/host shift | Low | Low | High | Low | Low |
| Existence of pathways (in MN) | Low | Medium | Medium | Low | Medium |
| Dispersal capacity: Reproduction | High | Medium | High | High | Low |
| Extent of invasion | Moderate | Moderate | Very High | Moderate | Mly-Low |
| Existence of non-human vectors | Negligible | Negligible | Negligible | Negligible | Negligible |
| Problem elsewhere | High | Medium | High | High | Medium |
| Impacts to yield or marketability | High | Low | High | High | Medium |
| Quarantine or mitigation costs | High | Medium | High | High | Medium |
| Impacts to recreation or real estate | Low | Medium | Low | Low | Low |
| Conseq. to native species | 1 | 3 | 2 | 1 | 2 |
| Conseq. to ecosystem services | 0 | 1 | 0 | 0 | 0 |
| Facilitate other invasions | Low | High | High | Low | Low |

| | spotted wing drosophila | swede midge | viburnum leaf beetle | walnut twig beetle | winter moth |
|--------------------------------------|--------------------------|-----------------------------|--------------------------|--------------------------------|----------------------------|
| | <i>Drosophila suzuki</i> | <i>Contarinia nasturtii</i> | <i>Pyrrhalta viburni</i> | <i>Pityophthorus juglandis</i> | <i>Operophtera brumata</i> |
| Proximity to MN | Very High | High | High | Medium | Medium |
| Existence of pathways (to MN) | High | Medium | Medium | Medium | Medium |
| Innate dispersal capacity | Low | Mly-Low | Mly-Low | Mly-Low | Mly-Low |
| Climatic suitability | High | High | High | Medium | High |
| Presence of hosts | High | Low | High | Medium | High |
| Hybridization/host shift | Medium | Low | Low | High | High |
| Existence of pathways (in MN) | High | Medium | Medium | Medium | Medium |
| Dispersal capacity: Reproduction | High | High | Medium | Low | Low |
| Extent of invasion | Very High | Mly-Low | Mly-Low | Mly-Low | Low |
| Existence of non-human vectors | Negligible | Negligible | Negligible | Negligible | Negligible |
| Problem elsewhere | High | High | Medium | Medium | Medium |
| Impacts to yield or marketability | High | Medium | Low | Low | Low |
| Quarantine or mitigation costs | Medium | Low | Medium | Medium | Low |
| Impacts to recreation or real estate | Low | Low | Low | Low | Low |
| Conseq. to native species | 2 | 2 | 2 | 3 | 3 |
| Conseq. to ecosystem services | 0 | 0 | 0 | 0 | 0 |
| Facilitate other invasions | Low | Low | Low | High | Low |

VIII. Terrestrial invasive pathogens (alphabetically by disease among bacteria, fungi, nematodes, oomycetes, parasitic plants, and viruses): criteria ratings to determine threat to Minnesota.

| Criterion | BACTERIA | | | | |
|--------------------------------------|--|--------------------------------------|--|---|---|
| | apple proliferation phytoplasma | aster yellows | bacterial wilt of dry beans | bacterial wilt of tomato | brown rot |
| | <i>Candidatus phytoplasma mali</i> | <i>Aster yellows phytoplasma</i> | <i>Curtobacterium flaccumfaciens</i> | <i>Clavibacter michigenensis</i> ssp. <i>michigenensis</i> | <i>Ralstonia solanacearum</i> , Race 3, biovar 2 |
| Proximity to MN | Low | High | Very High | Very High | Medium |
| Existence of pathways (to MN) | Medium | High | Medium | High | High |
| Innate dispersal capacity | Low | Low | Low | Low | Mly-Low |
| Climatic suitability | Medium | High | High | High | Medium |
| Presence of hosts | Low | High | High | Low | Low |
| Hybridization/host shift | Low | Low | Medium | Low | Medium |
| Existence of pathways (in MN) | Medium | Medium | Medium | Medium | Medium |
| Dispersal capacity: Reproduction | High | High | High | High | High |
| Extent of invasion | High | Very High | Moderate | Moderate | Moderate |
| Existence of non-human vectors | High | High | Negligible | Negligible | Negligible |
| Problem elsewhere | Medium | Medium | Medium | Medium | High |
| Impacts to yield or marketability | High | High | Medium | Low | High |
| Quarantine or mitigation costs | Medium | Medium | Medium | Low | High |
| Impacts to recreation or real estate | Low | Low | Low | Low | Low |
| Conseq. to native species | 1 | 2 | 1 | 1 | 2 |
| Conseq. to ecosystem services | 0 | 0 | 0 | 0 | 0 |
| Facilitate other invasions | Low | Low | Low | Low | Low |

| Criterion | BACTERIA | FUNGI | | | |
|--------------------------------------|--|--------------------------------------|---|---------------------------------------|---------------------------------|
| | Goss's wilt | Annosum root rot | ash dieback | associate fungus to Sirex woodwasp | boxelder dieback; wilt |
| | <i>Clavibacter michigenensis</i> ssp. <i>nebraskensis</i> | <i>Heterobasidium irregulare</i> | <i>Hymenoscyphus fraxineus</i> (<i>pseudoalbidus</i> ?) | <i>Amylostereum areolatum</i> | <i>Fusarium euwallaceae</i> |
| Proximity to MN | Very High | Very High | Low | Medium | Medium |
| Existence of pathways (to MN) | High | High | Low | Medium | Medium |
| Innate dispersal capacity | Low | Mly-Low | Mly-Low | Mly-Low | Low |
| Climatic suitability | Medium | High | High | High | Negligible |
| Presence of hosts | High | High | High | Medium | High |
| Hybridization/host shift | Low | High | Low | Low | High |
| Existence of pathways (in MN) | High | High | Medium | Medium | Medium |
| Dispersal capacity: Reproduction | High | High | High | High | High |
| Extent of invasion | Very High | Mly-Low | Moderate | Mly-Low | Mly-Low |
| Existence of non-human vectors | Negligible | Negligible | Negligible | Medium | Medium |
| Problem elsewhere | Medium | High | Medium | Medium | Medium |
| Impacts to yield or marketability | High | Medium | Medium | Low | Low |
| Quarantine or mitigation costs | Low | Medium | High | Low | Low |
| Impacts to recreation or real estate | Low | Medium | Medium | Low | Low |
| Conseq. to native species | 1 | 3 | 4 | 3 | 2 |
| Conseq. to ecosystem services | 0 | 2 | 0 | 0 | 0 |
| Facilitate other invasions | Low | Low | Low | High | High |

Terrestrial invasive plant pathogens: criteria ratings to determine threat to Minnesota (cont.)

| Criterion | FUNGI | | | | |
|--------------------------------------|--|-----------------------------|---|-------------------------------|-----------------------------|
| | butternut canker | Dutch elm disease | Dwarf bunt | European larch canker | Fusarium head blight |
| | <i>Ophiognomonia clavigigenti-juglandacearum</i> | <i>Ophiostoma novo-ulmi</i> | <i>Tilletia controversa</i> (cereal strain) | <i>Lachnellula willkommii</i> | <i>Fusarium graminearum</i> |
| Proximity to MN | Very High | Very High | Medium | Medium | Very High |
| Existence of pathways (to MN) | High | High | Medium | Medium | High |
| Innate dispersal capacity | Mly-Low | Mly-Low | Low | Mly-Low | Mly-Low |
| Climatic suitability | High | High | High | High | High |
| Presence of hosts | Medium | High | High | Medium | High |
| Hybridization/host shift | Low | High | Low | Low | Low |
| Existence of pathways (in MN) | High | High | Medium | Medium | High |
| Dispersal capacity: Reproduction | High | High | High | High | High |
| Extent of invasion | High | Very High | Moderate | Mly-Low | Very High |
| Existence of non-human vectors | Medium | Medium | Negligible | Negligible | Negligible |
| Problem elsewhere | Medium | Medium | Medium | High | Medium |
| Impacts to yield or marketability | Low | Low | High | Medium | High |
| Quarantine or mitigation costs | Low | Medium | High | Low | High |
| Impacts to recreation or real estate | Low | Medium | Low | Low | Low |
| Conseq. to native species | 4 | 4 | 2 | 2 | 1 |
| Conseq. to ecosystem services | 1 | 1 | 0 | 0 | 0 |
| Facilitate other invasions | Low | High | Low | Low | Low |

| Criterion | FUNGI | | | | |
|--------------------------------------|-----------------------------|--------------------------------|--|-------------------------------|------------------------------|
| | Japanese oak wilt | oak wilt | pitch canker | soybean rust | soybean sudden death |
| | <i>Raffaelea quercivora</i> | <i>Ceratocystis fagacearum</i> | <i>Gibberella circinata</i> (anamorph = <i>Fusarium circinatum</i>) | <i>Phakospora pachyrhizii</i> | <i>Fusarium virguliforme</i> |
| Proximity to MN | Low | Very High | Medium | High | Very High |
| Existence of pathways (to MN) | Medium | High | Medium | High | High |
| Innate dispersal capacity | Mly-Low | Mly-Low | Mly-Low | Low | Low |
| Climatic suitability | High | High | Negligible | High | High |
| Presence of hosts | High | High | Medium | High | High |
| Hybridization/host shift | Low | Low | Low | Low | Low |
| Existence of pathways (in MN) | Medium | High | Medium | Medium | High |
| Dispersal capacity: Reproduction | High | High | High | High | High |
| Extent of invasion | Moderate | High | Mly-Low | Mly-Low | High |
| Existence of non-human vectors | Medium | Medium | Medium | Negligible | Negligible |
| Problem elsewhere | High | Medium | High | Medium | High |
| Impacts to yield or marketability | Medium | Medium | Low | High | High |
| Quarantine or mitigation costs | High | High | Medium | High | High |
| Impacts to recreation or real estate | Medium | High | Medium | Low | Low |
| Conseq. to native species | 2 | 3 | 3 | 1 | 1 |
| Conseq. to ecosystem services | 0 | 2 | 0 | 0 | 0 |
| Facilitate other invasions | High | Low | Low | Low | Low |

Terrestrial invasive plant pathogens: criteria ratings to determine threat to Minnesota (cont.)

| Criterion | FUNGI | | | NEMATODES | OOMYCETES |
|--------------------------------------|---------------------------|---------------------------|----------------------------|----------------------------|------------------------------------|
| | thousand cankers disease | wheat flag smut | white pine blister rust | stem and bulb nematode | alder disease |
| | <i>Geosmithia morbida</i> | <i>Urocystis agropyri</i> | <i>Cronartium ribicola</i> | <i>Ditylenchus dipsaci</i> | <i>Phytophthora alni ssp. alni</i> |
| Proximity to MN | Medium | Medium | Very High | Very High | High |
| Existence of pathways (to MN) | Medium | Medium | High | High | Medium |
| Innate dispersal capacity | Low | Mly-Low | Moderate | Mly-Low | Mly-Low |
| Climatic suitability | Low | High | High | Medium | Medium |
| Presence of hosts | Medium | High | High | High | Low |
| Hybridization/host shift | High | Low | Low | Low | High |
| Existence of pathways (in MN) | Medium | Medium | High | High | Medium |
| Dispersal capacity: Reproduction | High | High | High | High | High |
| Extent of invasion | Mly-Low | Mly-Low | Very High | Moderate | Mly-Low |
| Existence of non-human vectors | Medium | Negligible | Negligible | Low | Low |
| Problem elsewhere | Medium | High | Medium | Medium | Medium |
| Impacts to yield or marketability | Low | Medium | Low | Medium | Low |
| Quarantine or mitigation costs | Medium | Medium | Low | Medium | Low |
| Impacts to recreation or real estate | Low | Low | Medium | Low | Low |
| Conseq. to native species | 3 | 2 | 4 | 2 | 4 |
| Conseq. to ecosystem services | 1 | 0 | 2 | 0 | 2 |
| Facilitate other invasions | High | Low | Low | Low | Low |

| Criterion | OOMYCETES | | | | |
|--------------------------------------|---|------------------------------|-------------------------------------|---------------------------------|---------------------------------|
| | alder disease | basil downy mildew | beech, azalea, and Viburnum dieback | club root | dieback of several woody plants |
| | <i>Phytophthora alni ssp. uniformis</i> | <i>Peronospora belbahrii</i> | <i>Phytophthora hedraiaandra</i> | <i>Plasmidiophora brassicae</i> | <i>Phytophthora kernovae</i> |
| Proximity to MN | High | Very High | Very High | Very High | Low |
| Existence of pathways (to MN) | High | High | High | High | Medium |
| Innate dispersal capacity | Mly-Low | Low | Mly-Low | Mly-Low | Mly-Low |
| Climatic suitability | Medium | High | Medium | High | High |
| Presence of hosts | Low | Low | Low | Low | High |
| Hybridization/host shift | High | High | Medium | Low | Medium |
| Existence of pathways (in MN) | Medium | Medium | High | High | Medium |
| Dispersal capacity: Reproduction | High | High | High | High | High |
| Extent of invasion | Mly-Low | Moderate | Mly-Low | Mly-Low | Mly-Low |
| Existence of non-human vectors | Low | Negligible | Low | Low | Low |
| Problem elsewhere | Medium | Medium | Medium | High | Medium |
| Impacts to yield or marketability | Low | Low | Low | Medium | Low |
| Quarantine or mitigation costs | Low | Low | Low | Medium | Medium |
| Impacts to recreation or real estate | Low | Low | Low | Low | Medium |
| Conseq. to native species | 2 | 1 | 2 | 2 | 3 |
| Conseq. to ecosystem services | 0 | 0 | 0 | 0 | 0 |
| Facilitate other invasions | Low | Low | Low | Low | Low |

Terrestrial invasive plant pathogens: criteria ratings to determine threat to Minnesota (cont.)

| Criterion | OOMYCETES | | | | |
|--------------------------------------|-----------------------------------|----------------------------|---------------------------------|---------------------------------|-------------------------------|
| | Downy mildew of cucurbits | Impatiens downy mildew | ink disease on chestnut and oak | juniper dieback | late blight |
| | <i>Pseudoperonospora cubensis</i> | <i>Plasmopara obducens</i> | <i>Phytophthora cinnamomi</i> | <i>Phytophthora austrocedri</i> | <i>Phytophthora infestans</i> |
| Proximity to MN | Very High | Very High | Medium | Low | Very High |
| Existence of pathways (to MN) | High | High | Medium | High | High |
| Innate dispersal capacity | Low | Mly-Low | Mly-Low | Mly-Low | Mly-Low |
| Climatic suitability | High | High | Negligible | Medium | High |
| Presence of hosts | Low | Low | High | Low | Low |
| Hybridization/host shift | Low | Low | Medium | Medium | Low |
| Existence of pathways (in MN) | High | High | Medium | Medium | High |
| Dispersal capacity: Reproduction | High | High | High | High | High |
| Extent of invasion | Mly-Low | Mly-Low | Mly-Low | Mly-Low | Very High |
| Existence of non-human vectors | Negligible | Negligible | Low | Low | Negligible |
| Problem elsewhere | Medium | Medium | Medium | Medium | High |
| Impacts to yield or marketability | High | Medium | Low | Low | High |
| Quarantine or mitigation costs | High | Medium | Low | Low | High |
| Impacts to recreation or real estate | Low | Low | Low | Low | Low |
| Conseq. to native species | 1 | 1 | 2 | 3 | 1 |
| Conseq. to ecosystem services | 0 | 0 | 0 | 0 | 0 |
| Facilitate other invasions | Low | Low | Low | Low | Low |

| Criterion | OOMYCETES | | PARASITIC PLANTS | VIRUSES |
|--------------------------------------|--------------------------|-----------------------------|--------------------------------|------------------------------------|
| | late wilt of corn | sudden oak death | dwarf mistletoe | Cucumber green mottle mosaic virus |
| | <i>Harpophora maydis</i> | <i>Phytophthora ramorum</i> | <i>Arceuthobium americanum</i> | CGMMV |
| Proximity to MN | Low | Medium | High | Medium |
| Existence of pathways (to MN) | Medium | High | High | Medium |
| Innate dispersal capacity | Low | Mly-Low | Low | Mly-Low |
| Climatic suitability | Low | Low | High | High |
| Presence of hosts | High | Low | Medium | Low |
| Hybridization/host shift | Low | Medium | Low | Low |
| Existence of pathways (in MN) | High | High | Medium | Medium |
| Dispersal capacity: Reproduction | High | High | Low | High |
| Extent of invasion | Mly-Low | Mly-Low | Mly-Low | Moderate |
| Existence of non-human vectors | Negligible | Low | High | Medium |
| Problem elsewhere | High | Medium | High | High |
| Impacts to yield or marketability | High | Medium | Medium | Medium |
| Quarantine or mitigation costs | High | Medium | Medium | High |
| Impacts to recreation or real estate | Low | Low | Low | Low |
| Conseq. to native species | 1 | 4 | 3 | 1 |
| Conseq. to ecosystem services | 0 | 2 | 0 | 0 |
| Facilitate other invasions | Low | Low | Medium | Low |

IX. Terrestrial invasive plants (alphabetically by common name): criteria ratings to determine threat to Minnesota.

| | black dog- strangling vine, black swallowwort | Canada thistle | common barberry | common tansy | |
|--------------------------------------|--|--------------------------------|----------------------------|------------------------------|------------------------------|
| Criterion | <i>Lotus corniculatus</i> | <i>Vincetoxicum nigrum</i> | <i>Cirsium arvense</i> | <i>Berberis vulgaris</i> | <i>Tanacetum vulgare</i> |
| Proximity to MN | Very High | Very High | Very High | Very High | Very High |
| Existence of pathways (to MN) | High | High | High | Medium | High |
| Innate dispersal capacity | Low | Low | Mly-Low | Low | Mly-Low |
| Climatic suitability | High | High | High | High | High |
| Presence of hosts | High | Medium | High | High | High |
| Hybridization/host shift | Low | Low | High | High | High |
| Existence of pathways (in MN) | High | Medium | High | Medium | High |
| Dispersal capacity: Reproduction | High | High | High | High | High |
| Extent of invasion | Very High | Mly-Low | Very High | Mly-Low | High |
| Existence of non-human vectors | High | Negligible | Negligible | High | Low |
| Problem elsewhere | Medium | Medium | Medium | Medium | Medium |
| Impacts to yield or marketability | Low | Low | High | Low | Medium |
| Quarantine or mitigation costs | Medium | Medium | High | Low | Medium |
| Impacts to recreation or real estate | Low | Low | Low | Low | Low |
| Conseq. to native species | 2 | 4 | 3 | 4 | 4 |
| Conseq. to ecosystem services | 1 | 1 | 0 | 0 | 2 |
| Facilitate other invasions | Medium | High | Medium | High | High |

| | common teasel | black dog- strangling vine, black swallowwort | cutleaf teasel | Dalmatian toadflax | European buckthorn |
|--------------------------------------|------------------------------|--|--------------------------------|------------------------------|-------------------------------|
| Criterion | <i>Dipsacus fullonum</i> | <i>Coronilla varia</i> | <i>Dipsacus laciniatus</i> | <i>Linaria dalmatica</i> | <i>Rhamnus cathartica</i> |
| Proximity to MN | Very High | Very High | Very High | Very High | Very High |
| Existence of pathways (to MN) | High | High | High | High | High |
| Innate dispersal capacity | Mly-Low | Low | Mly-Low | Low | Mly-Low |
| Climatic suitability | High | High | High | High | High |
| Presence of hosts | High | High | High | Medium | High |
| Hybridization/host shift | High | Low | High | High | High |
| Existence of pathways (in MN) | Medium | High | Medium | High | High |
| Dispersal capacity: Reproduction | High | Medium | High | High | High |
| Extent of invasion | Mly-Low | Very High | Mly-Low | Moderate | Very High |
| Existence of non-human vectors | Negligible | Low | Negligible | Negligible | High |
| Problem elsewhere | Medium | Medium | Medium | Medium | Medium |
| Impacts to yield or marketability | Low | Low | Low | Medium | Low |
| Quarantine or mitigation costs | Low | Low | Low | Low | High |
| Impacts to recreation or real estate | Low | Low | Low | Low | Medium |
| Conseq. to native species | 3 | 3 | 3 | 4 | 3 |
| Conseq. to ecosystem services | 0 | 2 | 0 | 0 | 1 |
| Facilitate other invasions | Low | High | Low | Medium | High |

Terrestrial invasive plants: criteria ratings to determine threat to Minnesota (cont.)

| | European common | | | | |
|--------------------------------------|-----------------------------|---------------------------|---------------------------------|-------------------------------|-----------------------|
| | reed | garlic mustard | giant hogweed | giant knotweed | glossy buckthorn |
| | <i>Phragmites australis</i> | | | | |
| Criterion | <i>ssp. australis</i> | <i>Alliaria petiolata</i> | <i>Heracleum mantegazzianum</i> | <i>Polygonum sachalinense</i> | <i>Frangula alnus</i> |
| Proximity to MN | Very High | Very High | High | Very High | Very High |
| Existence of pathways (to MN) | High | High | Medium | High | High |
| Innate dispersal capacity | Mly-Low | Low | Mly-Low | Mly-Low | Mly-Low |
| Climatic suitability | High | High | High | High | High |
| Presence of hosts | High | High | Medium | High | High |
| Hybridization/host shift | High | Low | High | High | Low |
| Existence of pathways (in MN) | High | High | Medium | High | High |
| Dispersal capacity: Reproduction | High | High | High | High | High |
| Extent of invasion | Very High | High | Mly-Low | Mly-Low | Very High |
| Existence of non-human vectors | High | Low | Negligible | Negligible | High |
| Problem elsewhere | Medium | Medium | Medium | Medium | Medium |
| Impacts to yield or marketability | Low | Low | Low | Low | Medium |
| Quarantine or mitigation costs | Medium | Medium | Medium | Medium | High |
| Impacts to recreation or real estate | Medium | Low | Medium | Low | Low |
| Conseq. to native species | 4 | 4 | 2 | 4 | 3 |
| Conseq. to ecosystem services | 4 | 2 | 2 | 3 | 1 |
| Facilitate other invasions | Low | Medium | Low | Low | High |

| | Grecian | | | Japanese | Japanese hedge- |
|--------------------------------------|-------------------------|------------------------|-------------------------------|----------------------------|-------------------------|
| | foxglove | hoary alyssum | houndstongue | barberry | parsley |
| | <i>Digitalis lanata</i> | | | <i>Berberis thunbergii</i> | <i>Torilis japonica</i> |
| Criterion | <i>lanata</i> | <i>Berteroa incana</i> | <i>Cynoglossum officinale</i> | <i>Berberis thunbergii</i> | <i>Torilis japonica</i> |
| Proximity to MN | Very High | Very High | Very High | Very High | Very High |
| Existence of pathways (to MN) | High | High | High | High | High |
| Innate dispersal capacity | Mly-Low | Low | Low | Low | Mly-Low |
| Climatic suitability | High | High | High | High | High |
| Presence of hosts | High | Medium | Medium | High | High |
| Hybridization/host shift | High | Low | High | High | Medium |
| Existence of pathways (in MN) | High | High | High | High | High |
| Dispersal capacity: Reproduction | High | High | High | High | High |
| Extent of invasion | Mly-Low | Very High | High | Moderate | Moderate |
| Existence of non-human vectors | Negligible | Negligible | Low | High | Low |
| Problem elsewhere | Medium | High | Medium | Medium | Medium |
| Impacts to yield or marketability | Low | Medium | Low | Low | Low |
| Quarantine or mitigation costs | Low | Medium | Low | Medium | Low |
| Impacts to recreation or real estate | Low | Low | Low | Low | Low |
| Conseq. to native species | 3 | 2 | 3 | 4 | 1 |
| Conseq. to ecosystem services | 0 | 1 | 0 | 1 | 0 |
| Facilitate other invasions | Low | Low | High | Medium | Low |

Terrestrial invasive plants: criteria ratings to determine threat to Minnesota (cont.)

| | Japanese hops | Japanese knotweed | leafy spurge | meadow hawkweed | meadow knapweed |
|--------------------------------------|--------------------------|-----------------------------|------------------------|------------------------------|----------------------------|
| Criterion | <i>Humulus japonicus</i> | <i>Polygonum cuspidatum</i> | <i>Euphorbia esula</i> | <i>Hieracium caespitosum</i> | <i>Centaurea debeauxii</i> |
| Proximity to MN | Very High | Very High | Very High | Very High | Very High |
| Existence of pathways (to MN) | High | High | High | High | High |
| Innate dispersal capacity | Mly-Low | Mly-Low | Low | Mly-Low | Low |
| Climatic suitability | Medium | High | High | High | High |
| Presence of hosts | Medium | High | High | Medium | Medium |
| Hybridization/host shift | Low | High | High | High | High |
| Existence of pathways (in MN) | High | High | High | High | Medium |
| Dispersal capacity: Reproduction | High | High | Medium | High | High |
| Extent of invasion | Mly-Low | Moderate | Very High | Moderate | Mly-Low |
| Existence of non-human vectors | Negligible | Negligible | Low | Negligible | Negligible |
| Problem elsewhere | High | High | Medium | Medium | High |
| Impacts to yield or marketability | Low | Low | High | Low | Medium |
| Quarantine or mitigation costs | Low | Medium | High | Low | Low |
| Impacts to recreation or real estate | Low | Low | Medium | Low | Low |
| Conseq. to native species | 4 | 4 | 3 | 3 | 4 |
| Conseq. to ecosystem services | 0 | 3 | 0 | 1 | 1 |
| Facilitate other invasions | High | Low | Low | Low | Low |

| | Mexican fireweed | Morrow's honeysuckle | multiflora rose | narrowleaf bittercress | Norway maple |
|--------------------------------------|------------------------|--------------------------|------------------------|----------------------------|-------------------------|
| Criterion | <i>Kochia scoparia</i> | <i>Lonicera morrowii</i> | <i>Rosa multiflora</i> | <i>Cardamine impatiens</i> | <i>Acer platanoides</i> |
| Proximity to MN | Very High | Very High | Very High | Very High | Very High |
| Existence of pathways (to MN) | High | High | High | High | High |
| Innate dispersal capacity | Mly-Low | Mly-Low | Mly-Low | Mly-Low | Low |
| Climatic suitability | High | High | High | High | High |
| Presence of hosts | High | High | High | High | High |
| Hybridization/host shift | Low | High | High | High | Medium |
| Existence of pathways (in MN) | High | High | High | High | High |
| Dispersal capacity: Reproduction | High | High | High | High | High |
| Extent of invasion | Moderate | Very High | High | Moderate | Mly-Low |
| Existence of non-human vectors | Medium | High | High | Low | Negligible |
| Problem elsewhere | Medium | Medium | Medium | Medium | Medium |
| Impacts to yield or marketability | Medium | Medium | Low | Low | Medium |
| Quarantine or mitigation costs | Medium | Medium | High | Low | Low |
| Impacts to recreation or real estate | Low | Low | Low | Low | Low |
| Conseq. to native species | 3 | 4 | 3 | 3 | 3 |
| Conseq. to ecosystem services | 0 | 1 | 1 | 0 | 1 |
| Facilitate other invasions | Medium | High | Low | Low | Medium |

Terrestrial invasive plants: criteria ratings to determine threat to Minnesota (cont.)

| | orange hawkweed | oriental bittersweet | Palmer amaranth | poison hemlock | Queen Anne's lace, wild carrot |
|--------------------------------------|-----------------------------|------------------------------|---------------------------|-------------------------|--------------------------------|
| | <i>Hieracium auranticum</i> | <i>Celastrus orbiculatus</i> | <i>Amaranthus palmeri</i> | <i>Conium maculatum</i> | <i>Daucus carota</i> |
| Proximity to MN | Very High | Very High | High | Very High | Very High |
| Existence of pathways (to MN) | High | High | High | High | High |
| Innate dispersal capacity | Mly-Low | Low | Mly-Low | Low | Mly-Low |
| Climatic suitability | Medium | High | High | High | High |
| Presence of hosts | Medium | High | High | Medium | Medium |
| Hybridization/host shift | High | High | High | Low | Low |
| Existence of pathways (in MN) | High | High | Medium | Medium | High |
| Dispersal capacity: Reproduction | High | High | High | High | High |
| Extent of invasion | High | Moderate | High | Low | High |
| Existence of non-human vectors | Negligible | High | High | High | Low |
| Problem elsewhere | Medium | Medium | Medium | Medium | Medium |
| Impacts to yield or marketability | Low | Low | High | Low | Low |
| Quarantine or mitigation costs | Low | Medium | High | Low | Low |
| Impacts to recreation or real estate | Low | Low | Low | Low | Low |
| Conseq. to native species | 3 | 4 | 1 | 3 | 2 |
| Conseq. to ecosystem services | 1 | 1 | 1 | 0 | 0 |
| Facilitate other invasions | Low | Medium | Low | Low | Low |

| | reed canarygrass | Siberian peashrub | spiny plumeless thistle | spotted knapweed | Tatarian honeysuckle |
|--------------------------------------|-----------------------------|-----------------------------|----------------------------|--|--------------------------|
| | <i>Phalaris arundinacea</i> | <i>Caragana arborescens</i> | <i>Carduus acanthoides</i> | <i>Centaurea stoebe</i> ssp. <i>micranthos</i> | <i>Lonicera tatarica</i> |
| Proximity to MN | Very High | Very High | Very High | Very High | Very High |
| Existence of pathways (to MN) | High | High | High | High | High |
| Innate dispersal capacity | Mly-Low | Low | Mly-Low | Low | Mly-Low |
| Climatic suitability | High | High | High | High | High |
| Presence of hosts | High | High | High | High | High |
| Hybridization/host shift | High | Low | High | High | High |
| Existence of pathways (in MN) | High | High | High | High | High |
| Dispersal capacity: Reproduction | High | High | High | High | High |
| Extent of invasion | Very High | High | Very High | Very High | Very High |
| Existence of non-human vectors | High | Negligible | Negligible | High | High |
| Problem elsewhere | High | Medium | Medium | Medium | Medium |
| Impacts to yield or marketability | Low | Low | Medium | High | Medium |
| Quarantine or mitigation costs | Medium | Low | Low | High | Medium |
| Impacts to recreation or real estate | Low | Low | Low | Medium | Low |
| Conseq. to native species | 4 | 2 | 3 | 4 | 4 |
| Conseq. to ecosystem services | 2 | 1 | 0 | 2 | 0 |
| Facilitate other invasions | Low | Low | High | Low | High |

Terrestrial invasive plants: criteria ratings to determine threat to Minnesota (cont.)

| | white sweetclover | wild parsnip | winged burning bush | yellow star thistle | yellow sweetclover |
|--------------------------------------|---------------------------|-----------------------------|----------------------------|-----------------------------------|----------------------------------|
| Criterion | <i>Melilotus alba</i> | <i>Pastinaca sativa</i> | <i>Euonymus alatus</i> | <i>Centaurea solstitialis</i> | <i>Melilotus officinalis</i> |
| Proximity to MN | Very High | Very High | Very High | High | Very High |
| Existence of pathways (to MN) | High | High | High | Medium | High |
| Innate dispersal capacity | Low | Low | Mly-Low | Low | Low |
| Climatic suitability | High | High | High | Low | High |
| Presence of hosts | High | High | High | High | High |
| Hybridization/host shift | High | Low | Low | High | Medium |
| Existence of pathways (in MN) | High | High | High | Medium | High |
| Dispersal capacity: Reproduction | High | High | High | High | High |
| Extent of invasion | Very High | Very High | Mly-Low | Low | Very High |
| Existence of non-human vectors | Negligible | Low | High | High | Negligible |
| Problem elsewhere | High | High | Medium | Medium | High |
| Impacts to yield or marketability | Low | Low | Low | Low | Low |
| Quarantine or mitigation costs | Low | Medium | Low | Medium | Medium |
| Impacts to recreation or real estate | Low | Low | Low | Medium | Low |
| Conseq. to native species | 3 | 3 | 3 | 4 | 3 |
| Conseq. to ecosystem services | 2 | 1 | 0 | 2 | 2 |
| Facilitate other invasions | Low | High | Low | Low | Low |

X. Definitions and measurement standards for each criterion

ARRIVAL

Proximity to Minnesota

The probability of arrival depends upon proximity among other factors. A pest that already occurs in Minnesota with a limited distribution, is likely at greater risk of arriving in other parts of the state than a pest not yet in Minnesota or not in North America.

| |
|--|
| Very High: Pest is known to occur in Minnesota. |
| High: Pest occurs in Wisconsin, Iowa, South Dakota, North Dakota, Manitoba, or Ontario |
| Medium: Pest occurs in North America |
| Low: Pest is not known to occur in North America |

Existence of Pathways

The probability of arrival depends also upon the existence of pathways to bring the pest to Minnesota. Here, we accept the fact that even though a potential pathway may not be conceivable, there may exist unconceivable pathways and therefore the scale does not include negligible risk.

| |
|--|
| High: Pathways for arrival of the pest in Minnesota are known to occur. |
| Medium: Pathways for arrival of the pest in Minnesota are conceivable, but not known to occur. |
| Low: Pathways for arrival of the pest in Minnesota are difficult to conceive. |

Innate Dispersal Capacity

The innate movement potential of pests depends on natural (e.g., flight, swimming, wind, flowing water, etc.) means of dispersal. This factor does not account for movement by humans or other vectors.

| |
|--|
| Very High: Maximum recorded dispersal >500 km per year (or moves in low level jets/ upper atmosphere). |
| High: Maximum recorded dispersal 500-250 km per year. |
| Moderate: Maximum recorded dispersal 100-250 km per year. |
| Moderately Low: Maximum recorded dispersal 1-100 km per year. (wind dispersal; flowing water;) |
| Low: Maximum recorded dispersal <1 km per year (movement through soil; splash dispersal) |

ESTABLISHMENT and Persistence

Suitability of Minnesota Climate

Potential geographic distribution of ectothermic (cold-blooded) pests can be estimated based on the availability of suitable climate and nutrition.

| |
|--|
| High: >40% of Minnesota is predicted to be suitable. |
| Medium: >20 to 40% of Minnesota is predicted to be suitable. |
| Low: >0 to 20% of Minnesota is predicted to be suitable. |
| Negligible: No part of Minnesota is suitable. |

Presence of hosts

Likelihood of finding a host is based on the likelihood of the pest finding a host relatively close to the location of introduction. The entire host range of the pest should be considered as well as the

geographic distribution of those hosts. Keep in mind that Minnesota has 79,627 square miles (=50,961,280 acres; 206,232 square kilometers) of dry land.

| |
|--|
| High: >10% of Minnesota with suitable hosts (or habitat for weeds). |
| Medium: >1 to 10% of Minnesota with suitable hosts (or habitat for weeds). |
| Low: >0 to 1% of Minnesota with suitable hosts (or habitat for weeds). |
| Negligible: 0% of Minnesota with suitable hosts (or habitat for weeds). |

Hybridization/Host shift

| |
|--|
| High: Species has been reported to hybridize or has undergone a documented host shift. |
| Medium: Species in the same genus have been reported to hybridize/shift hosts |
| Low: Hybridization/Host shifts have not been reported for this species.. |

SPREAD

Existence of pathways

This criteria relates to the movement of the pest within the state. Here, we accept the fact that even though a potential pathway may not be conceivable, there may exist unconceivable pathways and therefore the scale does not include negligible risk. This criterion is different from the existence of pathways because there the emphasis is on pathways that might bring the species into the state; here the emphasis is on pathways that might move the species within the state.

| |
|---|
| High: Pathways for movement of the pest within Minnesota are known to occur. |
| Medium: Pathways for movement of the pest within Minnesota are conceivable, but not known to occur. |
| Low: Pathways for movement of the pest within Minnesota are difficult to conceive. |

Dispersal Capacity-Reproductive Potential

Potential abundance is based on the number of descendants an individual could produce in one year. This annual reproductive potential can be estimated as $r = (n_o/p)^g$, where r is the reproductive potential per year, n_o is the number of male and female offspring produced per female, p is the number of parents required for reproduction (1 or 2) and g is the number of generations per year.

| |
|---|
| High: Annual reproductive potential (r) of pest is >500 descendants per year. |
| Medium: Annual reproductive potential (r) of pest is 100 to 500 descendants per year. |
| Low: Annual reproductive potential (r) of pest is <100 descendants per year. |

Extent of invasion

This factor describes the potential extent of the invasion in Minnesota in the next 10 years if the species is already present in the state or if we assumed it arrived at a single point within the next year. It is measured relative to the number of counties that likely have suitable climate and hosts and relative to the dispersal ability (moved by humans or not) of the organism.

| |
|---|
| Very High: >60 counties likely to have established populations of the pest. |
| High: 30-60 counties likely to have established populations of the pest. |
| Moderate: 15-29 counties likely to have established populations of the pest. |
| Moderately-Low: 7-14 counties likely to have established populations of the pest. |
| Low: 1-7 counties likely to have established populations of the pest. |

Existence of vectors

This factor focuses on non-human vectors that might bring the pest into Minnesota.

| |
|--|
| High: Vectored by birds or long distance insect migrants |
| Medium: Vectored by insects or bats |
| Low: Vectored by other mammals |
| None: No evidence of any vectors |

IMPACT**Problem Elsewhere**

This criterion is frequently cited in other pest risk assessment schemes. If a pest has proven to be problematic elsewhere, it is likely to be a pest within a newly invaded area. This criterion simply asks whether a pest has been reported as any time of a problem in areas where it occurs. If the native range of the organism is not known, the highest possible rank for this criterion is Medium.

| |
|---|
| High: Noted as a problem within its native range and areas where it has invaded |
| Medium: Noted as problem only in areas where it has invaded |
| Low: Not reported as a problem elsewhere |

Impact to Yields and Marketability

This criterion is meant to focus on the potential economic impact of the pest in the state on yields or marketability of the crop. For this criterion, simplified calculations are appropriate. Consider the total economic value of the plants that might be affected. Consider whether establishment is likely in most or all production areas. Emphasis should be placed on likely losses. If only “worst cases” have been reported in the literature, likely losses statewide might reasonable be assumed to be 50% of those losses.

Annual impacts to yields and marketability are...

| |
|-------------------------------------|
| High: >\$5 million |
| Medium: \$5 million to 0.5 million. |
| Low: <\$0.5 million. |

Costs of quarantine or other mitigation (annual)

| |
|-------------------------------------|
| High: >\$5 million |
| Medium: \$5 million to 0.5 million. |
| Low: <\$0.5 million. |

Impacts to recreation or real estate (annual)

| |
|-------------------------------------|
| High: >\$5 million |
| Medium: \$5 million to 0.5 million. |
| Low: <\$0.5 million. |

Consequences to native species

Assign a score based on the most severe impact that has been documented for the species.

| | |
|---|---|
| Could reasonably be expected impacts federally listed Threatened and Endangered Species | 5 |
| Could directly, negatively impact pollinators | 4 |
| Causes local loss of native species | 4 |
| Lowers density of native species | 3 |
| Infection to native fauna or flora | 2 |
| Consumes native fauna or flora | 2 |
| Production of toxic substances including allelochemicals | 2 |
| Forms dense thickets or grows as a vine | 2 |
| Host for recognized pathogens/parasites of native species | 1 |
| None of the above apply | 0 |

Consequences to ecosystem services (Scorecard approach)

The items bellow list common ecological services. Here simply count the number of impacts that have been reported for the pest. The maximum possible score is 7 and the minimum score is 0.

| |
|---|
| Modifications of soil, sediments, nutrient cycling |
| Alteration of genetic resources |
| Alteration of biological control |
| Changes in pollination services |
| Alteration of erosion regimes |
| Affects hydrology or water quality (includes effects of management) |
| Creates a fire hazard |

Facilitate other invasions

Invasion by the organism could lead to invasions of other species.

| |
|--|
| High: The invasive species has facilitated invasions elsewhere. |
| Medium: The invasive species is a plant or animal that could reasonably be expected to be a host or vector of another invasive species |
| Low: The species has not been reported to facilitate invasion elsewhere and is not likely to directly aid in the invasion of other species |

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| giant knotweed | 8, 18, 73 | light brown apple moth | 6, 11, 37-38 |
| <i>Gibberlla circinata</i> (anamorph = <i>Fusarium circinatum</i>) | 7, 14, 54-55 | <i>Lilioceris lili</i> | 6, 11, 38-39 |
| | | lily leaf beetle | 6, 11, 38-39 |
| glossy buckthorn | 8, 18, 73 | <i>Linaria dalmatica</i> | 8, 17, 70 |
| golden twin spot moth | 6, 10, 33-34 | <i>Lobesia botrana</i> | 6, 10, 31 |
| Goss's wilt | 7, 13, 49 | <i>Lonicera morrowii</i> | 8, 19, 66-67 |
| Grecian foxglove | 8, 18, 73 | <i>Lonicera tatarica</i> | 8, 20, 66-67 |
| gypsy moth, Asian | see Asian gypsy moth | <i>Lotus corniculatus</i> | 8, 17, 65 |
| gypsy moth, European | see European gypsy moth | <i>Lycorma delicatula</i> | 6, 12, 42-43 |
| | | <i>Lymantria dispar asiatica</i> | 6, 11, 35 |
| <i>Halyomorpha halys</i> | 6, 9, 28 | <i>Lymantria dispar dispar</i> | 6, 11, 35-36 |
| <i>Harpophora maydis</i> | 7, 16, 62-63 | | |
| hawkweed, meadow | 8, 20, 79-80 | meadow hawkweed | 8, 19, 79-80 |
| hawkweed, orange | 8, 19, 79-80 | meadow knapweed | 8, 19, 77 |
| <i>Helicoverpa armigera</i> | 6, 11, 40-41 | <i>Melilotus alba</i> | 8, 20, 86-87 |
| <i>Heracleum mantegazzianum</i> | 8, 18, 73 | <i>Melilotus officinalis</i> | 8, 20, 86-87 |
| <i>Heterobasidium irregular</i> | 7, 13, 49 | Mexican fireweed | 8, 19, 77-78 |
| <i>Hieracium auranticum</i> | 8, 20, 79-80 | Morrow's honeysuckle | 8, 19, 66-67 |
| <i>Hieracium caespitosum</i> | 8, 19, 79-80 | mountain pine beetle | 6, 11, 39-40 |
| hoary alyssum | 8, 18, 74 | multiflora rose | 8, 19, 78-79 |
| honeysuckle, Morrow's | see Morrow's honeysuckle | narrowleaf bittercress | 8, 19, 79 |
| | | Norway maple | 8, 19, 80-81 |
| honeysuckle, Tatarian | see Tatarian honeysuckle | | |
| houndstongue | 8, 18, 74 | oak splendor beetle | 6, 11, 40 |
| <i>Humulus japonicas</i> | 8, 19, 76-77 | oak wilt | 7, 14, 53-54 |
| <i>Hymenoscyphus fraxineus</i> (<i>pseudoalbidus</i>) | 7, 13, 49-50 | oak wilt, Japanese | see Japanese oak wilt |
| | | old world bollworm | 6, 11, 40-41 |
| | | <i>Operophtera brumata</i> | 6, 12, 46 |
| Impatiens downy mildew | 7, 16, 60-61 | <i>Ophiognomonia clavigigenti-juglandacearum</i> | 7, 14, 52 |
| ink disease on chestnut and oak | 7, 16, 61 | | |
| <i>Ips typographus</i> | 6, 10, 32-33 | <i>Ophiostoma novo-ulmi</i> | 7, 14, 52 |
| | | orange hawkweed | 8, 20, 79-80 |

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| <i>Orgyia pseudotsugata</i> | 6, 9, 29 | spotted wing drosophila | 6, 12, 43-44 |
| oriental bittersweet | 8, 20, 81-82 | stem and bulb nematode | 7, 15, 58 |
| Palmer amaranth | 8, 20, 82-83 | sudden oak death | 7, 16, 64 |
| <i>Pastinaca sativa</i> | 8, 20, 87 | swede midge | 6, 12, 44-45 |
| <i>Peronospora belbahrii</i> | 7, 15, 58-59 | sweetclover, white | 8, 20, 86-87 |
| <i>Phakospora pachyrhizii</i> | 7, 14, 55 | sweetclover, yellow | 8, 20, 86-87 |
| <i>Phalaris arundinacea</i> | 8, 20, 84 | <i>Tanacetum vulgare</i> | 8, 17, 68-69 |
| <i>Phragmites australis</i> ssp. <i>australis</i> | 8, 18, 71-72 | Tatarian honeysuckle | 8, 20, 566-67 |
| <i>Phytophthora alni</i> ssp. <i>alni</i> | 7, 15, 58 | <i>Tetropium fuscum</i> | 6, 9, 28 |
| <i>Phytophthora alni</i> ssp. <i>uniformis</i> | 7, 15, 58 | thistle, Canada | 8, 17, 67 |
| <i>Phytophthora austrocedri</i> | 7, 16, 61-62 | thistle, spiny plumeless | 8, 20, 85 |
| <i>Phytophthora cinnamomi</i> | 7, 16, 61 | thousand cankers disease | 7, 15, 56-57 |
| <i>Phytophthora hedraiaandra</i> | 7, 15, 59 | <i>Tilletia controversa</i> (cereal strain) | 7, 14, 52 |
| <i>Phytophthora infestans</i> | 7, 16, 62 | <i>Tipula oleracea</i> | 6, 10, 30 |
| <i>Phytophthora kernoviae</i> | 7, 15, 59-60 | <i>Tipula paludosa</i> | 6, 10, 30 |
| <i>Phytophthora ramorum</i> | 7, 16, 64 | <i>Tomicus piniperda</i> | 6, 10, 28 |
| pitch canker | 7, 14, 54-55 | <i>Torilis japonica</i> | 8, 18, 76 |
| <i>Pityophthorus juglandis</i> | 6, 12, 45-46 | <i>Urocystis agropyri</i> | 7, 15, 57 |
| <i>Plasmodiophora brassicae</i> | 7, 15, 59 | viburnum leaf beetle | 6, 12, 45 |
| <i>Plasmopara obducens</i> | 7, 16, 60-61 | <i>Vincetoxicum nigrum</i> | 8, 17, 65-66 |
| poison hemlock | 8, 20, 82-83 | walnut twig beetle | 6, 12, 45-46 |
| <i>Polygonum cuspidatum</i> | 8, 19, 76-77 | wheat flag smut | 7, 15, 57 |
| <i>Polygonum sachalinense</i> | 8, 18, 73 | white pine blister rust | 7, 15, 57 |
| <i>Popillia japonica</i> | 6, 11, 36 | white sweetclover | 8, 20, 86-87 |
| <i>Pseudoperonospora cubensis</i> | 7, 16, 60 | wild carrot | 8, 20, 83 |
| <i>Pyrrhalta viburni</i> | 6, 12, 45 | wild parsnip | 8, 20, 87 |
| Queen Anne's lace | 8, 20, 83 | winged burning bush | 8, 20, 87 |
| <i>Raffaelea quercivora</i> | 7, 14, 53 | winter moth | 6, 12, 46 |
| <i>Ralstonia solanacearum</i> (Race 3, biovar 2) | 7, 13, 48-49 | yellow star thistle | 8, 20, 87-88 |
| reed canary grass | 8, 20, 84 | yellow sweetclover | 8, 20, 86-87 |
| <i>Rhamnus cathartica</i> | 8, 17, 70-71 | <i>Yponomeuta malinellus</i> | 6, 9, 26 |
| <i>Rhizotrogus majalis</i> | 6, 10, 32 | | |
| <i>Rosa multiflora</i> | 8, 19, 78-79 | | |
| <i>Scolytus mulistriatus</i> | 6, 10, 30-31 | | |
| <i>Scolytus schevyrewi</i> | 6, 9, 27-28 | | |
| Siberian peashrub | 8, 20, 84 | | |
| silver Y moth | 6, 12, 41 | | |
| <i>Sirex noctilio</i> | 6, 12, 43-44 | | |
| Sirex woodwasp | 6, 12, 43-44 | | |
| Sirex woodwasp, fungus | 7, 13, 50-51 | | |
| soybean aphid | 6, 12, 41-42 | | |
| soybean pod borer | 6, 12, 42 | | |
| soybean rust | 7, 14, 55 | | |
| soybean sudden death | 7, 14, 55-56 | | |
| spiny plumeless thistle | 8, 20, 85 | | |
| <i>Spodoptera littoralis</i> | 6, 9, 29-30 | | |
| spotted knapweed | 8, 20, 85-86 | | |
| spotted lanternfly | 6, 12, 42-43 | | |