Scientific name: Poa compressa L. USDA Plants Code: POCO Common names: Canada bluegrass Eurasia, northern Africa Native distribution: May 5, 2009 Date assessed: Gerry Moore Assessors: LIISMA SRC Reviewers: Date Approved: May 20, 2009 Form version date: 3 March 2009

New York Invasiveness Rank: Moderate (Relative Maximum Score 50.00-69.99)

Dis	Distribution and Invasiveness Rank (Obtain from PRISM invasiveness ranking form)			
			PRISM	
	Status of this species in each PRISM:	Current Distribution	Invasiveness Rank	
1	Adirondack Park Invasive Program	Not Assessed	Not Assessed	
2	Capital/Mohawk	Not Assessed	Not Assessed	
3	Catskill Regional Invasive Species Partnership	Not Assessed	Not Assessed	
4	Finger Lakes	Not Assessed	Not Assessed	
5	Long Island Invasive Species Management Area	Widespread	Moderate	
6	Lower Hudson	Not Assessed	Not Assessed	
7	Saint Lawrence/Eastern Lake Ontario	Not Assessed	Not Assessed	
8	Western New York	Not Assessed	Not Assessed	

	asiveness Ranking Summary	Total (Total Answered*)	Total
(see	details under appropriate sub-section)	Possible	
1	Ecological impact	40 (<u>20</u>)	6
2	Biological characteristic and dispersal ability	25 (<u>25</u>)	20
3	Ecological amplitude and distribution	25 (<u>25</u>)	21
4	Difficulty of control	10 (<u>10</u>)	8
	Outcome score	$100 \left(\underline{80} \right)^{b}$	55 ^a
	Relative maximum score †		68.75
	New York Invasiveness Rank §	Moderate (Relative Maximum Score 50.00-69.9	

^{*} For questions answered "unknown" do not include point value in "Total Answered Points Possible." If "Total Answered Points Possible" is less than 70.00 points, then the overall invasive rank should be listed as "Unknown." †Calculated as 100(a/b) to two decimal places.

§Very High >80.00; High 70.00–80.00; Moderate 50.00–69.99; Low 40.00–49.99; Insignificant <40.00

A. DISTRIBUTION (KNOWN/POTENTIAL): Summarized from individual PRISM forms

	s this species been documented to persist without n in NY? (reliable source; voucher not required)	Partnerships for Regional Invasive Species Management
	Yes – continue to A1.2	2008
	No – continue to A2.1	APIPP
A1.2. In	which PRISMs is it known (see inset map)?	SLELO
	Adirondack Park Invasive Program	Capital
	Capital/Mohawk	Finger Lakes Mohawk
	Catskill Regional Invasive Species Partnership	Western NY
	Finger Lakes	CRISP
	Long Island Invasive Species Management Area	Lower
	Lower Hudson	Hudson
	Saint Lawrence/Eastern Lake Ontario	Liisma
	Western New York	San Marine San Comment of the Commen

Documentation: Sources of information:		
Brooklyn Botanic Garden, 2009;	Weldy & Werier, 2009.	
	this species will occur and persist outsid	e of cultivation, given the climate
	n from PRISM invasiveness ranking for	m)
Not Assessed Adirondack Par	k Invasive Program	
Not Assessed Capital/Mohaw		
•	al Invasive Species Partnership	
Not Assessed Finger Lakes	1	
	asive Species Management Area	
Not Assessed Lower Hudson	g	
	/Eastern Lake Ontario	
Not Assessed Western New Y		
Documentation:	OIK	
	ribution models, literature, expert opinio	ne)·
Brooklyn Botanic Garden, 2009;		115).
	d is not likely to occur with any o	f the PRISMs then ston here
-	ere is no need to assess the specie	•
us in	ere is no need to assess the speci	
A2.2. What is the current distribu	ation of the species in each PRISM? (obt	ain rank from PRISM invasiveness
ranking forms)	mon of the species in each 1 Itisii. (oor	an rank from 1 reign invasiveness
,		Distribution
Adirondack Park Invasive Pro	oram	Not Assessed
Capital/Mohawk	gram	Not Assessed
•	agias Dartnarshin	Not Assessed
Catskill Regional Invasive Spe	ecies Partilership	
Finger Lakes	N	Not Assessed
Long Island Invasive Species	Management Area	Widespread
Lower Hudson		Not Assessed
Saint Lawrence/Eastern Lake	Ontario	Not Assessed
Western New York		Not Assessed
Documentation:		
Sources of information:		
Brooklyn Botanic Garden, 2009;	Weldy & Werier, 2009.	
habitats not under active Aquatic Habitats	nown suitable habitats within New York. human management. Managed habitats Wetland Habitats	are indicated with an asterisk. Upland Habitats
Salt/brackish waters Freshwater tidal Rivers/streams Natural lakes and ponds Vernal pools Reservoirs/impoundments	Salt/brackish marshes Freshwater marshes Peatlands Shrub swamps Forested wetlands/riparian Ditches*	 ☐ Cultivated* ☐ Grasslands/old fields ☐ Shrublands ☐ Forests/woodlands ☐ Alpine ☐ Roadsides*
-	☐ Beaches and/or coastal dunes	
Other potential or known suitable	habitats within New York:	
D		
Documentation:		
Sources of information:	D G . 1 . 2000	
Tomaino & Oliver, 2005; Brooklyn Botanic Garden, 2009.		

B. INVASIVENESS RANKING

Questions apply to areas similar in climate and habitats to New York unless specified otherwise.

1. ECOLOGICAL IMPACT

1.1. Imp	oact on Natural Ecosystem Processes and System-Wide Parameters (e.g. fire	
_	geomorphological changes (erosion, sedimentation rates), hydrologic regime,	
	and mineral dynamics, light availability, salinity, pH)	0
A.	No perceivable impact on ecosystem processes based on research studies, or the absence of impact information if a species is widespread (>10 occurrences in minimally managed areas), has been well-studied (>10 reports/publications), and has been present in the	0
В.	northeast for >100 years. Influences ecosystem processes to a minor degree (e.g., has a perceivable but mild influence	3
ъ.	on soil nutrient availability)	3
C.	Significant alteration of ecosystem processes (e.g., increases sedimentation rates along	7
D.	streams or coastlines, reduces open water that are important to waterfowl) Major, possibly irreversible, alteration or disruption of ecosystem processes (e.g., the	10
D.	species alters geomorphology and/or hydrology, affects fire frequency, alters soil pH, or	10
	fixes substantial levels of nitrogen in the soil making soil unlikely to support certain native	
	plants or more likely to favor non-native species)	
U.	Unknown Score	U
	Documentation:	
	Identify ecosystem processes impacted (or if applicable, justify choosing answer A in the	
	absence of impact information)	
	Tomaino & Oliver (2005) reported that fires in the dormant season favor P. compressa over other grasses. However, studies not known on how P. compressa may be impacting fire	
	regimes. Studies on impacts to other aspects of the ecosystem processes and system-wide	
	parameters are not known.	
	Sources of information:	
10.7	Uchytil, 1993; Tomaino & Oliver, 2005; author's pers. comm.	
-	pact on Natural Community Structure	
A.	No perceived impact; establishes in an existing layer without influencing its structure	0
В.	Influences structure in one layer (e.g., changes the density of one layer)	3
C.	Significant impact in at least one layer (e.g., creation of a new layer or elimination of an existing layer)	7
D.	Major alteration of structure (e.g., covers canopy, eradicating most or all layers below)	10
U.	Unknown	
-	Score	3
	Documentation:	
	Identify type of impact or alteration:	
	P. compressa clearly can increase the density in the herb layer. It is not known to	
	significantly impact or cause major alteration of the herb layer. Sources of information:	
	Tomaino & Oliver, 2005; author's pers. comm.	
1.3. Imp	pact on Natural Community Composition	
Α.	No perceived impact; causes no apparent change in native populations	0
B.	Influences community composition (e.g., reduces the number of individuals in one or more	3
	native species in the community) Significantly alters community composition (a.g., produces a significant reduction in the	7
C.	Significantly alters community composition (e.g., produces a significant reduction in the population size of one or more native species in the community)	7

D.	Causes major alteration in community composition (e.g., results in the extirpation of one or several native species, reducing biodiversity or change the community composition towards species exotic to the natural community)	10
U.	Unknown	
	Score	3
	Documentation: Identify type of impact or alteration: Tomaino & Oliver (2005): "Poa compressa is an aggressive weed in tall grass prairies in the midwest and this grass and other non-natives impact leguminous forbs that occur in the tall grass prairies. Specifically species in the genera Psoralea, Dalea, Dichanthelium and Koeleria cristata are affected most greatly by non-native species including P. compressa (Cully et al. 2003)" While the author has not seen this species as a strongly aggressive invasive, he has noted it reducing the number of of individuals in natural communities, epsecially in open, sandy areas where Dichantheliums are common. No evidence of significant or major alteration of community composition, although more studies are warranted on the role this grass and others are playing in the conversion of natural open communities with sparse vegetation into areas that are dominated by a non-native grasses. In Hempstead Plain plots (0.1 sq. m.) the species has been noted with frequency of	
	occurrences of 2-8% (Jordan, unpub. data) Sources of information:	
	Cully et al., 2003; Mehrhoff et al., 2003; Tomaino & Oliver, 2005; Jordan, unpublished data; author's pers. comm.	
the anir Example connect soil/sed native s	pact on other species or species groups (cumulative impact of this species on mals, fungi, microbes, and other organisms in the community it invades. les include reduction in nesting/foraging sites; reduction in habitat tivity; injurious components such as spines, thorns, burrs, toxins; suppresses liment microflora; interferes with native pollinators and/or pollination of a species; hybridizes with a native species; hosts a non-native disease which	
impacts A.	s a native species) Negligible perceived impact	0
В.	Minor impact	3
C.	Moderate impact	7
D.	Severe impact on other species or species groups	10
U.	Unknown	-
	Score	U
	Documentation: Identify type of impact or alteration: Impact on other species groups not known. Not reported to hybridize with any native Poa species, but such hybrids could be easily overlooked. More study needed. Sources of information: Tomaino & Oliver, 2005; author's pers. obs.	
	Total Possible	20
	Section One Total	6
4 P	IOLOGICAL CHADACTEDICTICS AND DISDEDGAL AND TOTAL	
	IOLOGICAL CHARACTERISTICS AND DISPERSAL ABILITY	
2.1. Mc A.	ode and rate of reproduction (provisional thresholds, more investigation needed) No reproduction by seeds or vegetative propagules (i.e. plant sterile with no sexual or	0
В.	asexual reproduction). Limited reproduction (fewer than 10 viable seeds per plant AND no vegetative reproduction; if viability is not known, then maximum seed production is less than 100 seeds per plant and no vegetative reproduction)	1

C.	Moderate reproduction (fewer than 100 viable seeds per plant - if viability is not known, then maximum seed production is less than 1000 seeds per plant - OR limited successful vegetative spread documented)	2
D.	Abundant reproduction with vegetative asexual spread documented as one of the plants prime reproductive means OR more than 100 viable seeds per plant (if viability is not known, then maximum seed production reported to be greater than 1000 seeds per plant.)	4
U.	Unknown Score	4
	Documentation:	,
	Describe key reproductive characteristics (including seeds per plant): Individual can produce over 1000 seeds. Sources of information:	
2.2. Inn	APRS, 2001; author's pers. obs. nate potential for long-distance dispersal (e.g. bird dispersal, sticks to animal hair,	
	fruits, pappus for wind-dispersal)	
A.	Does not occur (no long-distance dispersal mechanisms)	0
B.	Infrequent or inefficient long-distance dispersal (occurs occasionally despite lack of adaptations)	1
C.	Moderate opportunities for long-distance dispersal (adaptations exist for long-distance dispersal, but studies report that 95% of seeds land within 100 meters of the parent plant)	2
D.	Numerous opportunities for long-distance dispersal (adaptations exist for long-distance dispersal and evidence that many seeds disperse greater than 100 meters from the parent plant)	4
U.	Unknown	
	Score	4
	Documentation:	
	Identify dispersal mechanisms:	
	Small seeds readily dispersed by wind and attach to animals. Sources of information:	
	Mehrhoff et al., 2003; Tomaino & Oliver, 2005	
	tential to be spread by human activities (both directly and indirectly – possible	
	nisms include: commercial sales, use as forage/revegetation, spread along ys, transport on boats, contaminated compost, land and vegetation	
_	ement equipment such as mowers and excavators, etc.)	
A.	Does not occur	0
В.	Low (human dispersal to new areas occurs almost exclusively by direct means and is infrequent or inefficient)	1
C.	Moderate (human dispersal to new areas occurs by direct and indirect means to a moderate extent)	2
D.	High (opportunities for human dispersal to new areas by direct and indirect means are numerous, frequent, and successful)	3
U.	Unknown Score	3
	Documentation:	
	Identify dispersal mechanisms:	
	Probably originally introduced in to U.S. as a forage plant. Now widespread and small seeds readily dispersed by humans and roadside maintenance equipment.	
	Sources of information: Mehrhoff et al., 2003; Tomaino & Oliver, 2005; author's pers. obs.	
	Menriott et al. 7003. Lomaino & Chiver 7005, author's pers, obs	

2.4. Characteristics that increase competitive advantage, such as shade tolerance, ability to grow on infertile soils, perennial habit, fast growth, nitrogen fixation,

allelopa	athy, etc.		
A.	Possesses no characteristics that increase competitive advantage	(0
B.	Possesses one characteristic that increases competitive advantage	,	3
C.	Possesses two or more characteristics that increase competitive advantage	(6
U.	Unknown		
	Score	(6
	Documentation:		
	Evidence of competitive ability:		
	Perennial habit; able to grow on poor soils; some shade tolerance.		
	Sources of information: Mehrhoff et al., 2003; Tomain & Oliver, 2005; author's pers. obs.		
2.5 Gr	owth vigor		
A.	Does not form thickets or have a climbing or smothering growth habit	(0
В.	Has climbing or smothering growth habit, forms a dense layer above shorter vegetation,		2
В.	forms dense thickets, or forms a dense floating mat in aquatic systems where it smothers	4	_
	other vegetation or organisms		
U.	Unknown		
	Score	(0
	Documentation:		
	Describe growth form:		
	Does not form thickets or exhibit a smothering growth habit.		
	Sources of information: Mehrhoff et al, 2003; Tomaino & Oliver, 2005; author's pers. obs.		
2.6 Ge	rmination/Regeneration		
A.	Requires open soil or water and disturbance for seed germination, or regeneration from		0
11.	vegetative propagules.	`	U
B.	Can germinate/regenerate in vegetated areas but in a narrow range or in special conditions	,	2
C.	Can germinate/regenerate in existing vegetation in a wide range of conditions		3
U.	Unknown (No studies have been completed)		
	Score		3
	Documentation:		
	Describe germination requirements:		
	Seeds observed germinating in existing vegetation. Poa seeds in general are relatively easy		
	to germinate. Individuals also readily regenerate upon mowing. Sources of information:		
	Mehrhoff et al, 2003; Tomaino & Oliver, 2005; author's pers. obs.		
2.7. Otl	her species in the genus invasive in New York or elsewhere		
A.	No		0
В.	Yes		3
U.	Unknown		-
0.	Score		0
	Documentation:		
	Species:		
	Poa bulbosa, P. pratensis; neither tracked as invasive. U.S.D.A., 2009.		
	Total Possible		
	Section Two Total	20	0

3. ECOLOGICAL AMPLITUDE AND DISTRIBUTION

3.1. Density of stands in natural areas in the northeastern USA and eastern Canada

(use same definition as Gleason & Cronquist which is: "The part of the United States covered extends from the Atlantic Ocean west to the western boundaries of Minnesota, Iowa, northern Missouri, and southern Illinois, south to the southern boundaries of Virginia, Kentucky, and Illinois, and south to the Missouri River in Missouri. In Canada the area covered includes Nova Scotia, Prince Edward Island, New Brunswick, and parts of Quebec and Ontario lying south of the 47th parallel of latitude")

latitude			
A.	No large stands (no areas greater than 1/4 acre or 1000 square meters)		0
B.	Large dense stands present in areas with numerous invasive species already present or disturbed landscapes		2
C.	Large dense stands present in areas with few other invasive species present (i.e. ability invade relatively pristine natural areas)	to	4
U.	Unknown		
		Score	2
	Documentation:		
	Identify reason for selection, or evidence of weedy history:		
	Large stands known in disturbed areas with other invasives present.		
	Sources of information: Tomaino & Oliver, 2005; Brooklyn Botanic Garden, 2009.		
3.2 Nu	mber of habitats the species may invade		
A.	Not known to invade any natural habitats given at A2.3		0
В.	Known to occur in two or more of the habitats given at A2.3, with at least one a natura	.1	1
ъ.	habitat.		•
C.	Known to occur in three or more of the habitats given at A2.3, with at least two a natural habitat.	:al	2
D.	Known to occur in four or more of the habitats given at A2.3, with at least three a natu habitat.	ral	4
E.	Known to occur in more than four of the habitats given at A2.3, with at least four a nat habitat.	ural	6
U.	Unknown		
c.		Score	6
	Documentation:		
	Identify type of habitats where it occurs and degree/type of impacts:		
	See A2.3.		
	Sources of information:		
2 2 Do	Tomaino & Oliver, 2005; Brooklyn Botanic Garden, 2009. le of disturbance in establishment		
3.3. Ko A.	Requires anthropogenic disturbances to establish.		0
В.	May occasionally establish in undisturbed areas but can readily establish in areas with		2
В.	natural or anthropogenic disturbances.		2
C.	Can establish independent of any known natural or anthropogenic disturbances.		4
U.	Unknown		
		Score	2
	Documentation:		
	Identify type of disturbance:		
	Readily establishes after disturbance; not known to require anthropogenic disturbance. Sources of information:		
	Tomaino & Oliver, 2005		
3.4. Cli	mate in native range		
Α.	Native range does not include climates similar to New York		0

New York NON-NATIVE PLANT INVASIVENESS RANKING FORM

В. С.	Native range possibly includes climates similar to at least part of New York. Native range includes climates similar to those in New York		1 3
U.	Unknown S	core	3
	Documentation: Describe what part of the native range is similar in climate to New York: Europe, temperate Asia. Sources of information: Brooklyn Botanic Garden, 2009.		
3.5. Cu	rrent introduced distribution in the northeastern USA and eastern Canada (see	
	n 3.1 for definition of geographic scope) Not known from the northeastern US and adjacent Canada		0
B. C.	Present as a non-native in one northeastern USA state and/or eastern Canadian province Present as a non-native in 2 or 3 northeastern USA states and/or eastern Canadian	•	1 2
D.	provinces. Present as a non-native in 4–8 northeastern USA states and/or eastern Canadian province and/or categorized as a problem weed (e.g., "Noxious" or "Invasive") in 1 northeastern or eastern Canadian province.		3
E.	Present as a non-native in >8 northeastern USA states and/or eastern Canadian province and/or categorized as a problem weed (e.g., "Noxious" or "Invasive") in 2 northeastern states or eastern Canadian provinces.	s.	4
U.	Unknown	-	
		core	4
	Documentation: Identify states and provinces invaded: All northeastern states and provinces. Sources of information: See known introduced range in plants.usda.gov, and update wit information from states and Canadian provinces. U.S.D.A., 2009.	:h	
	rrent introduced distribution of the species in natural areas in the eight New tate PRISMs (Partnerships for Regional Invasive Species Management)	V	
A.	Present in none of the PRISMs		0
В.	Present in 1 PRISM		1
C.	Present in 2 PRISMs Present in 3 PRISMs		2
D. E.	Present in 3 PRISMs Present in more than 3 PRISMs or on the Federal noxious weed lists		3 4
E. U.	Unknown		4
0.		core	4
		L	
	Documentation: Describe distribution: All PRISMs; see A1.1. Sources of information: rooklyn Botanic Garden, 2009; Weldy & Werier, 2009.		
	Total a State Carden, 2007, Heldy & Heller, 2007.		
	Total Pos	sible	25
	Section Three 7	[otal	21

4. D	IFFICULTY OF CONTROL	
4.1. Se	ed banks	
A.	Seeds (or vegetative propagules) remain viable in soil for less than 1 year, or does not make viable seeds or persistent propagules.	0
В.	Seeds (or vegetative propagules) remain viable in soil for at least 1 to 10 years	2
C.	Seeds (or vegetative propagules) remain viable in soil for more than 10 years	3
U.	Unknown	
	Score	2
	Documentation:	
	Identify longevity of seed bank: Seeds can remain viable in soil for up to 5 years. No evidence for viability in soil for more than 10 years. Sources of information: APRS, 2001.	
4.2. Ve	getative regeneration	
A.	No regrowth following removal of aboveground growth	0
B.	Regrowth from ground-level meristems	1
C.	Regrowth from extensive underground system	2
D.	Any plant part is a viable propagule	3
U.	Unknown	
	Score	2
	Documentation:	
	Describe vegetative response:	
	Readily regrows from extensive underground system. Intercalary meristems allow regrowth	
	from above ground stems at the nodes. Sources of information:	
	APRS, 2001; Tomaino & Oliver, 2005; auhtor's pers. obs.	
4.3. Le	vel of effort required	
Α.	Management is not required: e.g., species does not persist without repeated anthropogenic	0
	disturbance.	_
В.	Management is relatively easy and inexpensive: e.g. 10 or fewer person-hours of manual effort (pulling, cutting and/or digging) can eradicate a 1 acre infestation in 1 year (infestation averages 50% cover or 1 plant/100 ft ²).	2
C.	Management requires a major short-term investment: e.g. 100 or fewer person-hours/year of	3
	manual effort, or up to 10 person-hours/year using mechanical equipment (chain saws,	
	mowers, etc.) for 2-5 years to suppress a 1 acre infestation. Eradication is difficult, but	
D	possible (infestation as above). Management requires a major investment: e.g. more than 100 person-hours/year of manual	4
D.	effort, or more than 10 person hours/year using mechanical equipment, or the use of	4
	herbicide, grazing animals, fire, etc. for more than 5 years to suppress a 1 acre infestation.	
	Eradication may be impossible (infestation as above).	
U.	Unknown	
	Score	4
	Documentation:	
	Identify types of control methods and time-term required:	
	Tomaino & Oliver (2005): "Late spring burning can be used to control Poa compressa (Uchytil 1993). Burning can reduce bluegrass by more than 90% but it is rarely 100%	
	effective (WI DNR 2004). Herbicides are not recommended to control bluegrass on	
	grasslands or savannas where there are native prairie plants but they may be used in	
	severely degraded areas or where prairie restoration is beginning (WI DNR 2004).	
	Eradication of bluegrass in northern mixed prairies of the midwest or wet meadows of the Pacific Northwest may be infeasible; reduction of vigor and containment of spread may be	
	Facture profit west may be intesamle reduction of vigor and confainment of spread may be	

the only realistic management goals (Sather 1996). Poa compressa increases with grazing, however, removal of grazing pressure alone is not sufficient to shift the community back to native species (Sather 1996). Seeds may remain viable in the soil for more than five years (APRS Implementation Team 2001)."

Sources of information:

Tomaino & Oliver, 2005.

Total Possible	10
Section Four Total	8

Total for 4 sections Possible	
Total for 4 sections	55

C. STATUS OF CULTIVARS AND HYBRIDS:

At the present time (May 2008) there is no protocol or criteria for assessing the invasiveness of cultivars independent of the species to which they belong. Such a protocol is needed, and individuals with the appropriate expertise should address this issue in the future. Such a protocol will likely require data on cultivar fertility and identification in both experimental and natural settings.

Hybrids (crosses between different parent species) should be assessed individually and separately from the parent species wherever taxonomically possible, since their invasiveness may differ from that of the parent species. An exception should be made if the taxonomy of the species and hybrids are uncertain, and species and hybrids can not be clearly distinguished in the field. In such cases it is not feasible to distinguish species and hybrids, and they can only be assessed as a single unit.

Some cultivars of the species known to be available:

References for species assessment:

Alien plants ranking system (APRS) Implementation Team. 2001a. Alien plants ranking system version 7.1. Southwest Exotic Plant Information Clearinghouse, Flagstaff, AZ. <usgs.nau.edu/swepic> [Accessed May 5, 2009.]

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Hoffman, R. and K. Kearns, eds. 1997. Wisconsin manual of control recommendations for ecologically invasive plants. Wisconsin Dept. Natural Resources. Madison, Wisconsin. 102 pp. Online. Available: <dnr.state.wi.us/org/land/er/invasive/manual_toc.htm> [May 5, 2009.]

Kentucky Exotic Pest Plant Council. 2000. Kentucky exotic pest plant council invasive exotic plant list. <exoticpestplantcouncil.org/ky/list.htm. [Accessed May 5, 2009.]

Mehrhoff, L.J., J.A. Silander, Jr., S.A. Leicht and E. Mosher. 2003. IPANE: Invasive Plant Atlas of New England. Department of Ecology and Evolutionary Biology, University of Connecticut, Storrs, CT. <invasives.eeb.uconn.edu/ipane/> [Accessed may 5, 2009.].

Midwestern Ecology Working Group of NatureServe. No date. International Ecological Classification Standard: International Vegetation Classification. Terrestrial Vegetation. NatureServe, Minneapolis, MN.

Natural Resources Conservation Service [NRCS]. 2001. Environmental evaluation of plant materials releases. Unpublished evaluation forms. U.S. Department of Agriculture, Natural Resources Conservation Service, National Plant Materials Center, Beltsville, MD.

Sather, N. 1996. Element Stewardship Abstract for Poa pratensis, Poa compressa. The Nature Conservancy, Minneapolis, MN. <tncweeds.ucdavis.edu/esadocs/documnts/poa_pra.pdf> {Accessed may 5, 2009.]

Tomaino, A. and L. Oliver. 2005. Poa compressa. U.S. Invasive Species Impact Rank (I-Rank). NatureServe Explorer. www.natureserve.org. [Accessed on May 5, 2009.]

Uchytil, R. J. 1993. Poa compressa. In: Fire Effects Information System, U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory (Producer). Online. <fs.fed.us/database/feis> [Accessed May 5, 2009].

United States Department of Agriculture, National Resources Conservation Service. 2009. The PLANTS Database. National Plant Data Center, Baton Rouge, Louisiana [Accesssed on May 5, 2009.]

Weldy, T. & D. Werier. 2009. New York Flora Atlas. [S. M. Landry and K. N. Campbell (original application development), Florida Center for Community Design and Research. University of South Florida]. New York Flora Association, Albany, New York.

Wisconsin Department of Natural Resources. 2004. Non-Native Plants, Kentucky Bluegrass (Poa pratensis) and Canada Bluegrass (Poa compressa). <dnr.state.wi.us/org/land/er/invasive/factsheets/bluegrass.htm [Accessed May 5, 2009.]

Citation: This NY ranking form may be cited as: Jordan, M.J., G. Moore and T.W. Weldy. 2008. Invasiveness ranking system for non-native plants of New York. Unpublished. The Nature Conservancy, Cold Spring Harbor, NY; Brooklyn Botanic Garden, Brooklyn, NY; The Nature Conservancy, Albany, NY. Note that the order of authorship is alphabetical; all three authors contributed substantially to the development of this protocol.

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References for ranking form:

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