

<b>NAME OF SPECIES:</b> <i>Impatiens balfourii</i> Hook. f	
<b>Synonyms:</b>	
<b>Common Name:</b> Poor man's orchid, Balfour's touch-me-not, and Kashmir balsam	<b>Cultivars?</b> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
<b>A. CURRENT STATUS AND DISTRIBUTION</b>	
I. In Wisconsin?	1. YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
	2. <u>Abundance:</u> Low (1)
	3. <u>Geographic Range:</u> Present in Dane county (2)
	4. <u>Habitat Invaded:</u> Disturbed Areas <input checked="" type="checkbox"/> Undisturbed Areas <input checked="" type="checkbox"/>
	5. <u>Historical Status and Rate of Spread in Wisconsin:</u> Multiple plantings and naturalized populations reported in Madison area over the last 50 years (9)
	6. <u>Proportion of potential range occupied:</u> Low (1)
II. Invasive in Similar Climate Zones	1. YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> <u>Where (include trends):</u> CA, OR, WA, and WI (2). One probable invasive population found in Crow Wing Co. MN in 2011 (8)
III. Invasive in Which Habitat Types	1. Upland <input checked="" type="checkbox"/> Wetland <input checked="" type="checkbox"/> Dune <input type="checkbox"/> Prairie <input type="checkbox"/> Aquatic <input type="checkbox"/> Forest <input checked="" type="checkbox"/> Grassland <input checked="" type="checkbox"/> Bog <input type="checkbox"/> Fen <input type="checkbox"/> Swamp <input type="checkbox"/> Marsh <input checked="" type="checkbox"/> Lake <input type="checkbox"/> Stream <input checked="" type="checkbox"/> Other:
IV. Habitat Affected	1. <u>Soil types favored or tolerated:</u> Tolerates a pH of 5.6 to 6.0 (acidic), and 6.1 to 6.5 (mildly acidic). (4) Prefers fertile, organic, and well drained soil (1)
	2. <u>Conservation significance of threatened habitats:</u> N/a
V. Native Range and Habitat	1. <u>List countries and native habitat types:</u> Western Himalayas probably near the Pakistani-Indian border (1)
VI. Legal Classification	1. <u>Listed by government entities?</u> No
	2. <u>Illegal to sell?</u> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> Notes:
<b>B. ESTABLISHMENT POTENTIAL AND LIFE HISTORY TRAITS</b>	
I. Life History	1. <u>Type of plant:</u> Annual <input type="checkbox"/> Biennial <input type="checkbox"/> Monocarpic Perennial <input type="checkbox"/> Herbaceous Perennial <input checked="" type="checkbox"/> Vine <input type="checkbox"/> Shrub <input type="checkbox"/> Tree <input type="checkbox"/>
	2. <u>Time to Maturity:</u> Blooms in summer (4)
	3. <u>Length of Seed Viability:</u> Eighteen months (4)
	4. <u>Methods of Reproduction:</u> Asexual <input type="checkbox"/> Sexual <input checked="" type="checkbox"/> <u>Notes:</u>
	5. <u>Hybridization potential:</u> N/A
II. Climate	1. <u>Climate restrictions:</u> Thrives in cool coastal conditions, full sun near coastal areas, and partial shade in inland areas. (1) Best suited for elevations < 1000m.(3)
	2. <u>Effects of potential climate change:</u> N/a

III. Dispersal Potential	<p>1. <u>Pathways</u> - Please check all that apply:</p> <p><u>Unintentional</u>: Bird <input type="checkbox"/> Animal <input type="checkbox"/> Vehicles/Human <input checked="" type="checkbox"/>  Wind <input checked="" type="checkbox"/> Water <input checked="" type="checkbox"/> Other:</p> <p><u>Intentional</u>: Ornamental <input checked="" type="checkbox"/> Forage/Erosion control <input type="checkbox"/>  Medicine/Food: Other:</p> <p>2. <u>Distinguishing characteristics that aid in its survival and/or inhibit its control</u>: Contains seed pods that burst violently when touched. This plant is deer resistant (1)</p>
IV. Ability to go Undetected	1. HIGH <input type="checkbox"/> MEDIUM <input checked="" type="checkbox"/> LOW <input type="checkbox"/>
<b>C. DAMAGE POTENTIAL</b>	
I. Competitive Ability	<p>1. <u>Presence of Natural Enemies</u>: No</p> <p>2. <u>Competition with native species</u>:</p> <p>2. Rate of Spread:  -changes in relative dominance over time:  -change in acreage over time:  HIGH(1-3 yrs) <input checked="" type="checkbox"/> MEDIUM (4-6 yrs) <input type="checkbox"/> LOW (7-10 yrs) <input type="checkbox"/>  Notes:</p>
II. Environmental Effects	<p>1. <u>Alteration of ecosystem/community composition?</u>  YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>  Notes:</p> <p>2. <u>Alteration of ecosystem/community structure?</u>  YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>  Notes:</p> <p>3. <u>Alteration of ecosystem/community functions and processes?</u>  YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>  Notes:</p> <p>4. <u>Allelopathic properties?</u> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>  Notes:</p>
<b>D. SOCIO-ECONOMIC EFFECTS</b>	
I. Positive aspects of the species to the economy/society:	Notes:
II. Potential Socio-Economic Effects of Requiring Controls:	Positive: Negative:
III. Direct and indirect Socio-Economic Effects of Plant :	Notes:
IV. Increased Costs to Sectors Caused by the Plant::	Notes:
V. Effects on human health:	Notes:
<b>E. CONTROL AND PREVENTION</b>	
I. Costs of Prevention:	Notes:

II. Responsiveness to prevention:	Notes:
III. Effective Control tactics: (provide only basic info)	Mechanical <input checked="" type="checkbox"/> Biological <input type="checkbox"/> Chemical <input checked="" type="checkbox"/> Times and uses: Pulling and cutting is effective in small quantities. Control by spraying with gyphosate from boat using lightweight telescopic lances is effective. (7)
IV. Costs of Control:	Notes: Identify types of control methods and time-term required: Herbicidal; complete eradication requires several years removed, communities recover without any consequences for species diversity. Larger infestations might be more difficult to control, but herbicide may still be needed. (6)
V. Cost of prevention vs. Cost of allowing invasion to occur:	Notes:
VI. Non-Target Effects of Control:	Notes:
VII. Efficacy of monitoring:	Notes:
VIII. Legal and landowner issues:	Notes:
<b>F. HYBRIDS AND CULTIVARS AND VARIETIES</b>	
I. Known hybrids?  YES <input type="checkbox"/> NO <input type="checkbox"/>	Name of hybrid:  Names of hybrid cultivars:
II. Species cultivars and varieties	Names of cultivars, varieties and any information about the invasive behaviors of each:
	Notes:

#### G. REFERENCES USED:

- UW Herbarium (Madison or Stevens Point)
- WI DNR
- Bugwood (Element Stewardship Abstracts)
- Native Plant Conservation Alliance
- IPANE
- USDA Plants

Number	Reference
1	<a href="http://books.google.com/books?id=b6VKo5W9KmyC&amp;pg=PA75&amp;lpg=PA75&amp;dq=impatiens+balfourii&amp;source=bl&amp;ots=kdfIleYYOe&amp;sig=rj_12rAND6wOyGWYnDfuaWZR450&amp;hl=en&amp;ei=K3pnSv3gCdT_IQeXxL2LAG&amp;sa=&amp;oi=book_result&amp;ct=result&amp;resnum=6#v=onepage&amp;q=impatiens%20balfourii&amp;f=false">http://books.google.com/books?id=b6VKo5W9KmyC&amp;pg=PA75&amp;lpg=PA75&amp;dq=impatiens+balfourii&amp;source=bl&amp;ots=kdfIleYYOe&amp;sig=rj_12rAND6wOyGWYnDfuaWZR450&amp;hl=en&amp;ei=K3pnSv3gCdT_IQeXxL2LAG&amp;sa=&amp;oi=book_result&amp;ct=result&amp;resnum=6#v=onepage&amp;q=impatiens%20balfourii&amp;f=false</a>
2	<a href="http://plants.usda.gov/java/profile?symbol=IMBAZ">http://plants.usda.gov/java/profile?symbol=IMBAZ</a>
3	<a href="http://ucjeps.berkeley.edu/cgi-bin/get_JM_treatment.pl?1986,1987,1988">http://ucjeps.berkeley.edu/cgi-bin/get_JM_treatment.pl?1986,1987,1988</a>
4	<a href="http://davesgarden.com/guides/pf/go/584/">http://davesgarden.com/guides/pf/go/584/</a>
5	<a href="http://wisplants.uwsp.edu/scripts/detail.asp?SpCode=IMPBAL">http://wisplants.uwsp.edu/scripts/detail.asp?SpCode=IMPBAL</a>
6	<a href="http://www.natureserve.org/library/invasives_species_list_Jan1005.xls">http://www.natureserve.org/library/invasives_species_list_Jan1005.xls</a>
7	Ecology and Management of Invasive Riverside Plants. John Wiley and Sones
8	Van Riper, Laura. Personal communications 2011
9	UW Madison Herbarium. <a href="http://www.botany.wisc.edu/cgi-bin/SearchResults.cgi">http://www.botany.wisc.edu/cgi-bin/SearchResults.cgi</a>

Author(s), Draft number, and date completed: Stephanie Lind, 1, May 24, 2011

Reviewer(s) and date reviewed: Kelly Kearns, Dec. 8, 2011

Approved and Completed Date: 12/20/2011