



Industry &
Investment

NEW SOUTH WALES WEED RISK MANAGEMENT SYSTEM



INDUSTRY AND INVESTMENT NEW SOUTH WALES
ORANGE NSW 2800

August 2009

NEW SOUTH WALES WEED RISK MANAGEMENT FORM

INTRODUCTION

The NSW Weed Risk Management (WRM) system aims to provide a standard, nationally accepted and transparent process to help make decisions about the introduction, prioritisation and declaration of potential weed or weed species. It has been designed so that it can be applied to a number of geographic scales, for example it can be applied to the state of New South Wales, to regions or catchments, or to individual Local Control Areas, and may even be applied to individual land management units, for example a farm or a National park.

This document contains the assessment form for the NSW WRM system. **It is important that this form be submitted with declaration applications.**

“How do I fill in the form?”

This assessment form is filled out after referring to the instructions contained in the New South Wales Weed Risk Management Guide. It is important to use accurate information to complete this form. To enable this, useful information sources are listed in the **Sourcing information** (page **Error! Bookmark not defined.**) and **Information sources** (page **Error! Bookmark not defined.**) sections of the guide.

“Is there any other information that I should provide?”

Aside from the answers required in this form, it is important to provide a copy of the source of the information (page **Error! Bookmark not defined.**) of the guide. Failure to supply information may result in the assessment being sent back to the assessor/s.

“What do I do with the completed form?”

The completed form and any additional information should be sent prior to 30 June annually to be considered that year to: -

NWAC Secretary
Weeds Unit
New South Wales Department of Industry and Investment
Locked Bag 21
ORANGE NSW 2800

Alternatively Fax: 02 6391 3206 (and post the original)

Assessments may not be processed in the year of submission if they are received after 30 June.

NSW DII will advise you of the outcome of the assessment.

NEW SOUTH WALES WEED RISK MANAGEMENT FORM

Contact Assessors details

Contact Assessor's Name:

Company/Organisation:

Telephone Number:

Fax Number:

Postal Address:

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Assessment working group (stakeholders and experts who helped conduct assessments):

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General weed information

Genus:

Species:

Common Name(s):

Family:

Subspecies/Variety/Cultivar.....

Management Area:

Land use:

Assumptions

Potential distribution

Within the geographic area being considered, what is the percentage area of land use that is suitable for the weed?

		SCORE
<input type="checkbox"/>	>80% of land use Weed has potential to spread to 80%+ of land use.	10
<input type="checkbox"/>	60-80% of land use Weed has potential to spread to 60-80% of land use.	8
<input type="checkbox"/>	40-60% of land use Weed has potential to spread to 40-60% of land use.	6
<input type="checkbox"/>	20-40% of land use Weed has potential to spread to 20-40% of land use.	4
<input type="checkbox"/>	10-20% of land use Weed has potential to spread to 10-20% of land use.	2
<input type="checkbox"/>	5-10% of land use Weed has potential to spread to 5-10% of land use.	1
<input type="checkbox"/>	<5% of land use Weed has potential to spread to less than 5% of land use.	0.5
<input type="checkbox"/>	unsuited to land use Weed not suited to growing in any part of land use.	0
<input type="checkbox"/>	do not know	5

Source and comments

(Please attach relevant maps if information is not published)

Invasiveness scores		Impact scores		Potential distribution scores	
Questions	Uncertainty	Questions	Uncertainty	Question	Uncertainty

Comparative Weed Risk and Uncertainty Scores

The score for weed risk is calculated by adjusting the Invasiveness, Impacts and Potential distribution scores to range from 0 to 10, and then multiplying these. Weed risk will have a maximum of 1000 and a minimum of 0. The electronic form does this for you.

To calculate manually, adjust the raw scores as follows:

Invasiveness: Divide by 15 and multiply by 10. Round score to nearest decimal place.

Impacts: Divide by 19 and multiply by 10. Round score to nearest decimal place.

Potential distribution: Leave score unchanged.

Comparative Weed Risk = Invasiveness × Impacts × Potential distribution

(Round to the nearest whole number)

Splitting up these possible scores into bands of 20% gives cut-offs for categories of weed risk as follows:

Frequency bands and weed risk Categories

Frequency band	Weed Risk Score	Weed Risk
80-100% (top 20% of possible scores)	192+	<i>Very high</i>
60-80%	101-192	<i>High</i>
40-60%	39-100	<i>Medium</i>
20-40%	13-38	<i>Low</i>
0-20% (bottom 20% of possible scores)	<13	<i>Negligible</i>

Weed Risk scores

	Raw score	Correction	Adjusted score	
Invasiveness	...	$((\text{Raw score})/15) \times 10$	... (a)	
Impacts	...	$((\text{Raw score})/19) \times 10$	... (b)	
Potential Distribution	...	Unchanged	... (c)	
Comparative Weed Risk			...	i.e. (a) x (b) x (c)
Weed Risk Category (from frequency band table above)			...	(e.g. <i>Very high</i>)

The uncertainty score for weed risk assessment is determined by calculating the percentage of ‘do not know’ answers that have been recorded in the **Invasiveness**, **Impacts** and **Potential distribution** sections. In the case of part questions, for example Invasiveness Questions 3-5 and Impacts Question 6 record the individual scores from each ‘do not know’ question in each part to determine the section uncertainty score. **Do not** combine the scores from each ‘do not know’ question to calculate a score for that question as was done to calculate the question score. See page **Error! Bookmark not defined.** for an example. The electronic form does this for you.

To calculate manually, adjust the section uncertainty score as follows:

Invasiveness: Divide by 14 and multiply by 100. Round to nearest whole number.

Impacts: Divide by 11 and multiply by 100. Round to nearest whole number.

Potential distribution: Divide by 5 and multiply by 100.

(Round to the nearest whole number)

Weed Risk uncertainty scores

	Section uncertainty score	Correction	Adjusted uncertainty score
Invasiveness	...	$((\text{Raw score})/14) \times 100$	...
Impacts	...	$((\text{Raw score})/11) \times 100$	...
Potential Distribution	...	$((\text{Raw score})/5) \times 100$	...

Comparative Feasibility of Coordinated Control and Uncertainty scores

The score for feasibility of coordinated control is calculated by adjusting the Control costs, Persistence and Current distribution scores to range from 0 to 10, and then multiplying these. Feasibility of coordinated control will have a maximum of 1000 and a minimum of 0. The electronic form does this for you.

To calculate manually, adjust the raw scores as follows:

Control costs: Divide by 12 and multiply by 10. Round score to nearest decimal place.

Persistence: Divide by 11 and multiply by 10. Round score to nearest decimal place.

Current distribution: Divide by 12 and multiply by 10. Round score to nearest decimal place.

Feasibility of coordinated control = Control Costs × Persistence × Current Distribution

(Round to the nearest whole number)

Splitting up these possible scores into bands of 20% gives cut-offs for categories of feasibility as follows:

Frequency bands and weed feasibility of coordinated control categories

Frequency band	Feasibility Score	Weed Feasibility
80-100% (top 20% of possible scores)	113+	<i>Negligible</i>
60-80%	56-113	<i>Low</i>
40-60%	31-55	<i>Medium</i>
20-40%	14-30	<i>High</i>
0-20% (bottom 20% of possible scores)	<14	<i>Very high</i>

Feasibility of coordinated control scores

	Raw score	Correction	Adjusted score	
Control costs	...	$((\text{Raw score})/12) \times 10$	... (a)	
Persistence	...	$((\text{Raw score})/11) \times 10$	... (b)	
Current Distribution	...	$((\text{Raw score})/12) \times 10$	... (c)	
Comparative Weed Risk			...	i.e. (a) x (b) x (c)
Weed Feasibility Category (from frequency band table above)			...	(e.g. <i>Negligible</i>)

The uncertainty score for feasibility of coordinated control is determined by calculating the percentage of ‘do not know’ answers that have been recorded in the **Control costs**, **Persistence** and **Current distribution** sections. In the case of part questions, for example Control costs Questions 1 and 3 and Persistence Question 4 record the individual scores for each ‘do not know’ question in each part to determine the section uncertainty score. **Do not** combine the scores from each ‘do not know’ question to calculate a score for that question as was done to calculate the question score. See page **Error! Bookmark not defined.** for an example. The electronic form does this for you.

To calculate manually, adjust the section uncertainty score as follows:

Control costs: Divide by 12 and multiply by 100. Round to nearest whole number.

Persistence: Divide by 6 and multiply by 100. Round to nearest whole number.

Current distribution: Divide by 6 and multiply by 100. Round to nearest whole number.

(Round to the nearest whole number)

Feasibility uncertainty scores

	Section uncertainty score	Correction	Adjusted uncertainty score
Control costs	...	$((\text{Raw score})/12) \times 100$	...
Persistence	...	$((\text{Raw score})/6) \times 100$	...
Current Distribution	...	$((\text{Raw score})/6) \times 100$	...

Overall uncertainty score

Calculation of overall uncertainty score

Section	Adjusted uncertainty score (Percentage uncertainty)
Invasiveness	
Impacts	
Potential distribution	
Control costs	
Persistence	
Current Distribution	
	=(sum of adjusted uncertainty scores above)/6 (round to nearest whole number)

The following levels of overall uncertainty need to be considered before submitting assessments. Assessments submitted with levels of overall uncertainty exceeding 15% will generally be returned to the assessor/s for further research.

Overall uncertainty level	Suggested response needed
<15%	Submit assessment (ensure all information sources have been attached)
15-30%	Revisit existing literature and source new literature before submitting assessment (contact NSW DII staff for other possible information sources)
>30%	Do not submit assessment (contact NSW DII regional staff for help in locating information)

Positive impacts

<i>Are there any other positive impacts the species may have?</i>	
Positive impact	Source

List stakeholders consulted and outcomes of these discussions.

Stakeholders consulted

Outcomes

Further comments

Are there any further comments you would like to offer to support this assessment?