| | |
|---|---|
| **Weed (Scientific name)** | **Tradescantia fluminensis - Commelinaceae** |
| **Region** | **Sydney** |
| **Management Area** | **Sydney** |
| **Landuse** | **1. CONSERVATION AND NATURAL ENVIRONMENTS** |
| **Assumptions** | |

| ***Invasiveness*** | **Score** | **Total** | | |
|---|---|---|---|---|
| **Q1. What is the ability of the weed to establish amongst existing plants?** | | **3.0** | Seedlings establish within dense vegetation or weeds | Q1 |
| **Q2. What is the weed's tolerance to average weed management practices in the land use?** | | **2.0** | Between 50 and 95% of weeds survive | Q2 |
| **Q3. What is the reproductive ability of the weed in the land use?** | | **2.0** | | Q3 |
| (a) Time to seeding | ? | | Do not know | |
| (b) Annual seed production | 0.0 | | None | |
| (c) Vegetative reproduction | 2.0 | | Frequent | |
| **Q4. How likely is long-distance dispersal (>100m) by natural means?** | | **2.0** | | Q4 |
| (a) Flying animals | ? | | Do not know | |
| (b) Other wild animals | ? | | Do not know | |
| (c) Water | 2.0 | | Common | |
| (d) Wind | 0.0 | | Unlikely | |
| **Q5. How likely is long-distance dispersal (>100 m) by human means?** | | **3.0** | | Q5 |
| (a) Deliberate spread by people | 2.0 | | Common | |
| (b) Accidentally by people and vehicles | 2.0 | | Common | |
| (c) Contaminated produce | 1.0 | | Occasional | |
| (d) Domestic/farm animals | ? | | Do not know | |
| **Total** | | **8.0** | | |

| *Impacts* | Score | Total | | |
|---|---|---|---|---|
| **Q1. Does the weed reduce the establishment of desired plants?** | | **3.0** | > 50% reduction | Q1 |
| **Q2. Does the weed reduce the yield or amount of desired vegetation?** | | **4.0** | > 50% reduction | Q2 |
| **Q3. Does the weed reduce the quality of products, diversity or services available from the land use?** | | **2.0** | Medium | Q3 |
| **Q4. What is the weed's potential to restrict the physical movement of people, animals, vehicles, machinery and/or water?** | | **1.0** | Low | Q4 |
| **Q5. What is the weed's potential to negatively affect the health of animals and/or people?** | | **1.0** | Low | Q5 |
| **Q6. Does the weed have major positive or negative effects on environmental health?** | | **3.0** | | Q6 |
| (a) food/shelter | 1.0 | | Major negative effect | |
| (b) fire regime | 1.0 | | Major negative effect | |
| (c) altered nutrient levels | 1.0 | | Major negative effect | |
| (d) soil salinity | ? | | Do not know | |
| (e) soil stability | 1.0 | | Major negative effect | |
| (f) soil water table | ? | | Do not know | |
| **Total** | | **7.4** | | |
| ***Potential Distribution*** | | | | |
| **Q1. Within the geographic area being considered, what is the percentage area of land use that is suitable for the weed?** | | **8.0** | 60-80% of land use | Q1 |
| **Comparative weed risk score** | | **472** | | |
| **Weed risk category** | | **Very high** | | |

| *Control Costs* | Score | Total | | |
|---|---|---|---|---|
| **Q1. How detectable is the weed?** | | **2** | | Q1 |
| (a) Distinguishing features | 0 | | always distinct | |
| (b) Period of year shoot growth visible | 0 | | > 8 months | |
| (c) Height at maturity | 2 | | <0.5 m | |
| (d) Pre-reproductive height in relation to other vegetation | 2 | | below canopy | |
| **Q2. What is the general accessibility of known infestations at the optimum time of treatment?** | | **0** | high | Q2 |
| **Q3. How expensive is management of the weed in the first year of targeted control?** | | **4** | | Q3 |
| (a) Chemical costs/ha | 3 | | high ($250-$500/ha) | |
| (b) Labour costs/ha | 4 | | very high (>$500/ha) | |
| (c) Equipment costs | 1 | | low | |
| **Q4. What is the likely level of participation from landholders/volunteers within the land use at risk?** | | **2.0** | low | Q4 |
| **Total** | | **6.7** | | |

| *Persistence* | Score | Total | | |
|---|---|---|---|---|
| **Q1. How effective are targeted management treatments applied to infestations of the weed?** | | **3** | low | Q1 |
| **Q2. What is the minimum time period for reproduction of sexual or vegetative propagules?** | | **3** | < 6 months | Q2 |
| **Q3. What is the maximum longevity of sexual or vegetative propagules?** | | **0** | < 2 years | Q3 |
| **Q4. How likely are new propagules to continue to arrive at control sites, or to start new infestations?** | | **3.0** | | Q4 |
| (a) Long-distance (>100m) dispersal by natural means | 2 | | frequent | |
| (b) Long-distance (>100m) dispersal by human means | 2 | | frequent | |
| **Total** | | **8.2** | | |

| *Current distribution* | | | | |
|---|---|---|---|---|
| **Q1. What percentage area of the land use in the geographical area is currently infested by the weed?** | | **1.0** | 5-10% of land use | Q1 |
| **Q2. What is the number of infestations, and weed distribution within the geographic area being considered?** | | **1.0** | scattered | Q2 |
| **Total** | | **1.7** | | |

| | | |
|---|---|---|
| **Comparative feasibility of coordinated control score** | **91** | |
| **Feasibility of coordinated control category** | **Low** | |

| | |
|---|---|
| **Management priority category** | **Manage weed Protect priority sites** |
| **Calculation of overall uncertainty score** | **6%** |
| **Response** | **Submit Assessment** |
| **Positive Impacts** | Positive, frog, reptile and invertebrate habitat |

**References/Other comments**

Re: Sources: Many of the questions above answered as a group by: C Williams - Sydney North WC, R Adlmayer Sydney Central WC, M Costigan Sydney West/Blue Mountains WC, and

| Source and comments |
| --- |
| All of the above. Can establish in almost any light conditions or disturbance except aquatic. |
| see below |
| http://www.weedsbluemountains.org.au/trad.asp Seed not viable in Australia. http://www.weedscrc.org.au/documents/wdygg_garden%20escapes_great%20lakes_nsw.pdf |
| http://www.weedsbluemountains.org.au/trad.asp |
| http://www.weedsbluemountains.org.au/trad.asp http://www.weedscrc.org.au/documents/wdygg_garden%20escapes_great%20lakes_nsw.pdf. http://www.issg.org/database/species/ecology.asp?si=497&fr=1&sts= |

http://www.weedsbluemountains.org.au/trad.asp

http://www.weedsbluemountains.org.au/trad.asp

pers. obs. SS

pers. obs. SS

Causes dermatitis in dogs and people.  Used for chicken feed. SS

It alters litter decomposition, nutrient cycling and the successional trajectory of New Zealand lowland podocarp-broadleaf forests and probably native vegetation elsewhere. http://www.issg.org/database/species/ecology.asp?si=497&fr=1&sts=

pers. obs. SS

pers. obs. SS

Stem fragments spread by water. Stem fragments spread in contaminated soil. Sydney Weeds Commitees Garden Escapes Booklet

Widespread - Auld & Medd. Size of existing infestations varies considerably across Sydney region.

M Hall & L Kaye NPWS, with the assistance of Sue Stevens.