GLOBAL INVASIVE SPECIES DATABASE

FULL ACCOUNT FOR: ***Vulpia bromoides***

Vulpia bromoides **System:** Terrestrial

Kingdom	Phylum	Class	Order	Family
Plantae	Magnoliophyta	Liliopsida	Cyperales	Poaceae

Common name vulpie faux brome (French), silver grass (English), rat's tail fescue (English), barren fescue (English), silkygrass (English), brome fescue (English), brome six-weeks grass (English), desert fescue (English), pasto de sedilla (Spanish), festuca-cevadinha (Portuguese), cevadinha-braba (Portuguese), squirreltail fescue (English)

Synonym *Bromus dertonensis* , All.
Festuca bromoides , L.
Festuca dertonensis , (All.) Asch. & Graebn.
Vulpia dertonensis , (All.) Gola

Similar species

Summary Vulpia bromoides Is an annual weed of native grasslands and pastures in temperate climates of both the Northern and Southern hemispheres. Weedy annual grasses can reduce biodiversity on native grasslands, impede their restoration, and alter ecosystem processes. As a pasture weed, V. bromoides reduces productivity of grasslands; it has low palatability, and its seeds can damage hides and fleece of grazing animals. It readily invade wherever disturbance occurs. Integrated management which combines pasture rest, herbicide treatment and fertilizer application is shown to reduce seed production and improve control.

view this species on IUCN Red List

Principal source:

Compiler: IUCN SSC Invasive Species Specialist Group (ISSG) with support from the Overseas Territories Environmental Programme (OTEP) project XOT603, a joint project with the Cayman Islands Government - Department of Environment

Review:

Pubblication date: 2010-06-08

ALIEN RANGE

[1] AUSTRALIA
[1] CHILE
[2] FRENCH SOUTHERN TERRITORIES
[1] JAPAN
[1] PORTUGAL
[2] SAINT HELENA
[7] UNITED STATES
[1] CANADA
[1] FALKLAND ISLANDS (MALVINAS)
[1] INDIA
[2] NEW ZEALAND
[1] PUERTO RICO
[1] SOUTH AFRICA
[1] WEST INDIES

BIBLIOGRAPHY

32 references found for **Vulpia bromoides**

Managment information

Dowling, P. M.; Leys, A. R.; Verbeek, B.; Millar, G. D.; Lemerle, D.; Nicol, H. I., 2004. Effect of annual pasture composition, plant density, soil fertility and drought on vulpia (*Vulpia bromoides* (L.) S. F. Gray) Australian Journal of Agricultural Research. 55(10). 2004. 1097-1107.

Dowling, P. M.; Millar, G. D.; Milne, B.; Newell, P., 2009. Using plant development to determine optimum times for spraytopping, and assessing effect of grazing and double/repeat herbicide applications on regeneration of vulpia. Plant Protection Quarterly. 24(1). 2009. 32-38.

Dowling, P. M.; Milne, B. R.; Kelso, H. G., 1992. Post-control regeneration of vulpia. Plant Protection Quarterly. 7(3). 1992. 139.

IUCN/SSC Invasive Species Specialist Group (ISSG)., 2010. A Compilation of Information Sources for Conservation Managers.

Summary: This compilation of information sources can be sorted on keywords for example: Baits & Lures, Non Target Species, Eradication, Monitoring, Risk Assessment, Weeds, Herbicides etc. This compilation is at present in Excel format, this will be web-enabled as a searchable database shortly. This version of the database has been developed by the IUCN SSC ISSG as part of an Overseas Territories Environmental Programme funded project XOT603 in partnership with the Cayman Islands Government - Department of Environment. The compilation is a work under progress, the ISSG will manage, maintain and enhance the database with current and newly published information, reports, journal articles etc.

Michalk, D. L.; Dowling, P. M., 1996. Cultural weed management of vulpia. Plant Protection Quarterly. 11(SUPPL. 1). 1996. 207-210.

Pacific Island Ecosystems at Risk (PIER), 2008. *Vulpia bromoides* (L.) S.F.Gray, Poaceae

Summary: Available from: http://www.hear.org/pier/species/vulpia_bromoides.htm [Accessed 26 July 2010]

Purba, E.; Preston, C.; Powles, S. B., 1993. Paraquat resistance in a biotype of *Vulpia bromoides* (L.) S.F. Gray. Weed Research. 33(5). 1993. 409-413.

Tozer, Katherine N.; Chapman, David F.; Quigley, Paul E.; Dowling, Peter M.; Cousens, Roger D.; Kearney, Gavin A., 2008. Effect of grazing, gap dynamics, and inter-specific seedling competition on growth and survival of *Vulpia* spp. and *Hordeum murinum* ssp *leporinum*. Australian Journal of Agricultural Research. 59(7). 2008. 646-655.

Tozer, Katherine N.; Chapman, David F.; Quigley, Paul E.; Dowling, Peter M.; Cousens, Roger D.; Kearney, Gavin A.; Sedcole, J. Richard, 2008. Controlling invasive annual grasses in grazed pastures: population dynamics and critical gap sizes. Journal of Applied Ecology. 45(4). AUG 2008. 1152-1159.

Tozer, K. N.; Chapman, D. F.; Cousens, R. D.; Quigley, P. E.; Dowling, P. M.; Kearney, G. A.; Cameron, C. A., 2009 Effects of perennial species on the demography of annual grass weeds in pastures subject to seasonal drought and grazing. Crop & Pasture Science. 60(11). 2009. 1088-1096.

Tozer, K. N.; Chapman, D. F.; Quigley, P. E.; Dowling, P. M.; Cousens, R. D.; Kearney, G. A., 2009. Integrated management of vulpia in dryland perennial pastures of southern Australia. Crop & Pasture Science. 60(1). 2009. 32-42.

Tristan Island Government, 2006. Tristan Biodiversity Action Plan (2006 – 2010)

Vere, D. T.; Jones, R. E.; Dowling, P. M.; Kemp, D. R., 2002. Economic impact of *Vulpia* in temperate pasture systems in south-eastern Australia. Australian Journal of Experimental Agriculture. 42(4). 2002. 465-472.

General information

Ahamed Kabeer, K. Althaf; Nair, V. J., 2006. *Vulpia bromoides* (L.) Gray (Poaceae): A new record to India from the Nilgiris, Tamil Nadu. Journal of Economic & Taxonomic Botany. 30(3). 2006. 480-483.

Allcock, Kimberly G., 2002. Effects of phosphorus on growth and competitive interactions of native and introduced species found in White Box woodlands. Austral Ecology. 27(6). December 2002. 638-646.

Best, Rebecca J., 2008. Exotic grasses and feces deposition by an exotic herbivore combine to reduce the relative abundance of native forbs. Oecologia (Berlin). 158(2). NOV 2008. 319-327.

Broughton, D. A. & McAdam, J. H. 2002. The non-native vascular flora of the Falkland Islands , Botanical Journal of Scotland, 54: 2, 153 – 190

Code, G. R., 1996. Why vulpia is a problem in Australian agriculture. Plant Protection Quarterly. 11(SUPPL. 1). 1996. 202-204

Dowling, P. M., 1996. The ecology of vulpia Plant Protection Quarterly. 11(SUPPL. 1). 1996. 204-206.

Freckleton, R. P.; Watkinson, A. R.; Dowling, P. M.; Leys, A. R., 2000. Determinants of the abundance of invasive annual weeds: Community structure and non-equilibrium dynamics. Proceedings of the Royal Society Biological Sciences Series B. 267(1448). 7 June, 2000. 1153-1161.

Frenot, Y., Gloaguen, J., Mass, L., & Lebouvier, M. 2001. Human activities, ecosystem disturbance and plant invasions in subantarctic Crozet, Kerguelen and Amsterdam Islands. Biological Conservation, 101, 33-50.

Summary: Cette article propose une liste des plantes exotiques pour 3 des les subantarctiques franaises. Le rle passe et prsent des activits humaines dans les phnomnes d invasions est discut.

Frenot, Yves, Steven L. Chown, Jennie Whinam, Patricia M. Selkirk, Peter Convey, Mary Skotnicki and Dana M. Bergstrom, 2005. Biological invasions in the Antarctic: extent, impacts and implications. Biol. Rev. (2005), 80, pp. 45–72.

Global Compendium of Weeds (GCW), 2008. *Vulpia bromoides* (Poaceae)

Summary: Available from: http://www.hear.org/gcw/species/vulpia_bromoides/ [Accessed 26 July 2010]

Groves, R. H.; Austin, M. P.; Kaye, P. E., 2003. Competition between Australian native and introduced grasses along a nutrient gradient. Austral Ecology. 28(5). October 2003. 491-498.

Integrated Taxonomic Information System (ITIS), 2010. *Vulpia bromoides* (L.) S.F. Gray

Summary: Available from: http://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=42261 [Accessed 26 July 2010]

Kundel, Wolfgang; Kesel, Raimund, 1998. *Vulpia bromoides* (L.) S.F. Gray in Bremens lowlands. Floristische Rundbriefe. 31(2). Feb., 1998. 151-156.

Pickart, Andrea J.; Miller, Linda M.; Duebendorfer, Thomas E., 1998. Yellow bush lupine invasion in northern California coastal dunes I. Ecological impacts and manual restoration techniques. Restoration Ecology. 6(1). March, 1998. 59-68.

Plants of Hawaii, 200. *Vulpia bromoides* (brome fescue)
Summary: Available from: http://www.hear.org/starr/images/species/?q=vulpia+bromoides&o=plants [Accessed 26 July 2010]
USDA-ARS, 2010. Taxon: *Vulpia bromoides* (L.) Gray. National Genetic Resources Program. Germplasm Resources Information Network - (GRIN) [Online Database]. National Germplasm Resources Laboratory, Beltsville, Maryland.
Summary: Available from: http://www.ars-grin.gov/cgi-bin/npgs/html/taxon.pl?41932 [Accessed 26 July 2010]
USDA-NRCS, 2010. *Vulpia bromoides* (L.) Gray brome fescue. The PLANTS Database (http://plants.usda.gov, 18 September 2010). National Plant Data Center, Baton Rouge, LA 70874-4490 USA
Summary: Available from: http://plants.usda.gov/java/profile?symbol=VUBR [Accessed 26 July 2010]
Wace, N. M. and M. W. Holdgate, 1958. The Vegetation of Tristan Da Cunha. Journal of Ecology. Vol. 46, No. 3 (Nov., 1958), pp. 593-620
Wallace, Alexandra, 1997. The biology of Australian Weeds. 30. *Vulpia bromoides* ((L.) S.F. Gray) and *V. myuros* ((L.) C.C. Gmelin). Plant Protection Quarterly. 12(1). 1997. 18-28.