

National list of exotic pasture species

This national list of exotic pasture species has been developed to provide the full list of species that may be considered under clause (e)(ii) of the natural inland wetland definition.

It was produced alongside the Cosgrove et al 2022 literature review and provided by those authors as an excel spreadsheet. Both the [literature review](#) and [excel spreadsheet](#) are available on the Ministry for the Environment website.

In the table:

- the Clarkson et al. (2021) wetland plant indicator status is presented in normal font
- the proposed indicator status based on the United States Department of Agriculture (USDA) Plants Database (2022) wetland plants indicator status rating is in *italic font*
- if a plant species and its wetland indicator status is not listed in the USDA Plants Database or in Clarkson et al., we have designated the proposed indicator status by underlining (eg, UPL).

The rating classes used in the table are:

- facultative upland (FACU)
- facultative (FAC)
- upland (UPL).

Full name	Rating	Synonym	Common name	Cultivar (example)
<i>Achillea millefolium</i> L.	FACU		Yarrow	N/A
<i>Agrostis capillaris</i> L.	FACU		Browntop	N/A
<i>Alopecurus pratensis</i> L.	FAC		Meadow foxtail	N/A
<i>Anthoxanthum odoratum</i> L.	FACU		Sweet vernal	N/A
<i>Arrhenatherum elatius</i> (L.) P.Beauv. ex J.Presl & C.Presl	<i>FACU</i>		Tall oat-grass	N/A
<i>Astragalus cicer</i> L.	<u>UPL</u>		Cicer milk vetch	Windsor

Full name	Rating	Synonym	Common name	Cultivar (example)
<i>Bromus catharticus</i> Vahl.	UPL	<i>Bromus unioloides</i> , <i>Bromus willdenowii</i>	Prairie grass, Rescue grass	Matua
<i>Bromus coloratus</i> Steud.	UPL		Coloured brome	Exceltas
<i>Bromus hordeaceus</i> L.	UPL		Soft brome	N/A
<i>Bromus inermis</i> Leyss.	UPL		Smooth brome	Tiki
<i>Bromus sitchensis</i> Trin.	UPL	<i>Bromus marginatus</i>	Upland brome	Hakari
<i>Bromus stamineus</i> E.Desv.	UPL	<i>Bromus cebadilla</i>	Grazing brome	Gala
<i>Bromus valdivianus</i> Phil.	UPL	noted as a synonym of <i>B. cebadilla</i>	Pasture brome	Bareno
<i>Cenchrus clandestinus</i> (Hochst. ex Chiov.) Morrone	FACU	<i>Pennisetum clandestinum</i>	Kikuyu	Whittet
<i>Cichorium intybus</i> L.	FACU		Chicory	Choice
<i>Cynosurus cristatus</i> L.	UPL		Crested dogstail	N/A
<i>Dactylis glomerata</i> L.	FACU		Cocksfoot, Orchardgrass	Wana
<i>Festuca rubra</i> L.	FACU		Chewings fescue	N/A
<i>Hedysarum coronarium</i> L.	UPL	<i>Sulla coronaria</i>	Sulla	Grasslands Aokau
<i>Holcus lanatus</i> L.	FAC		Yorkshire fog	Massey Basyn
<i>Lolium arundinaceum</i> (Schreb.) Darbysh.	FAC	<i>Schedonorus arundinaceus</i> , <i>Festuca arundinacea</i>	Tall fescue	Hummer
<i>Lolium multiflorum</i> Lam.	UPL		Italian ryegrass	Sonic
<i>Lolium perenne</i> L.	FACU		Perennial ryegrass	Alto
<i>Lolium pratense</i> (Huds.) Darbysh.	FACU	<i>Schedonorus pratensis</i> , <i>Festuca pratensis</i>	Meadow fescue	Kasper
<i>Lolium rigidum</i> Gaudin	UPL		Annual ryegrass	Safeguard
<i>Lolium xholmbergii</i> (Dorf) Foggi. Kopecky & Ardenghi	UPL	Festulolium	Festulolium	Matrix
<i>Lolium xhybridum</i> Hasskn	UPL	<i>Lolium xboucheanum</i>	Hybrid ryegrass	Shogun
<i>Lotus angustissimus</i> L.	UPL		Slender birdsfoot trefoil	N/A
<i>Lotus corniculatus</i> L.	FACU		Birdsfoot trefoil	Goldie
<i>Lotus hirsutus</i> L.	UPL	<i>Dorycnium hirsutum</i>	Hairy canary clover	TAS1002
<i>Lotus pedunculatus</i> Cav.	FAC	<i>Lotus uliginosus</i>	Lotus	Trojan

Full name	Rating	Synonym	Common name	Cultivar (example)
<i>Lotus pentaphyllum</i> L.	<u>UPL</u>	<i>Dorycnium pentaphyllum</i>	Prostrate canary clover	TAS1179
<i>Lotus rectus</i> L.	<u>UPL</u>	<i>Dorycnium rectum</i>	Erect dorycnium	TAS1274
<i>Lotus subbiflorus</i> Lag.	<u>UPL</u>	<i>Lotus suaveolens</i>	Hairy birdsfoot trefoil	N/A
<i>Lotus tenuis</i> Willd.	FACU		Narrow-leaved birdsfoot trefoil	Esmeralda
<i>Lupinus albus</i> L.	<u>UPL</u>		White lupin	Lliama
<i>Lupinus angustifolius</i> L.	<u>UPL</u>		Narrow-leaved lupin, blue lupin	Danja
<i>Lupinus polyphyllus</i> Lindl.	FAC		Perennial lupin	N/A
<i>Medicago lupulina</i> L.	FACU		Black medic	George
<i>Medicago nigra</i> (L.) Krock.	FACU	<i>Medicago polymorpha</i>	Burr medic	Santiago
<i>Medicago sativa</i> L.	<u>UPL</u>		Lucerne, Alfalfa	Wairau
<i>Melilotus albus</i> Medik.	FACU		Sweet clover	Polara
<i>Melilotus officinalis</i> (L.) Lam.	FACU		Yellow sweet clover	Goldtop
<i>Onobrychis viciifolia</i> Scop.	<u>UPL</u>		Sainfoin	Delaney
<i>Ornithopus compressus</i> L.	<u>UPL</u>		Yellow serradella	N/A
<i>Ornithopus pinnatus</i> (Mill.) Druce	<u>UPL</u>		Yellow serradella	N/A
<i>Paspalum dilatatum</i> Poir.	FACU		Paspalum	Raki
<i>Phalaris aquatica</i> L.	FAC		Phalaris	Maru
<i>Phleum pratense</i> L.	FACU		Timothy	Grasslands Charlton
<i>Plantago lanceolata</i> L.	FACU		Narrow-leaved plantain, ribgrass	Tonic
<i>Poa pratensis</i> L.	FACU		Kentucky bluegrass	Campus
<i>Poa trivialis</i> L.	FACU		Rough-stalked meadow grass	N/A
<i>Rumex acetosella</i> L.	FACU		Sheeps sorrel	N/A
<i>Sanguisorba minor</i> subsp. <i>balearica</i> (Bourg. ex Nyman) Muñoz Garm. & C.Navarro	FAC	<i>Sanguisorba minor</i> subsp. <i>muricata</i>	Sheeps burnet	Delar
<i>Securigera varia</i> (L.) Lassen	<u>UPL</u>	<i>Coronilla varia</i>	Crown vetch	Emerald
<i>Sporobolus africanus</i> (Poir.) Robyns & Tournay	FACU		Ratstail	N/A
<i>Thinopyrum intermedium</i> (Host) Barkworth & D.R.Dewey	<u>UPL</u>	<i>Elytrigia intermedia</i>	Pubescent wheat grass	Amur
<i>Trifolium ambiguum</i> M.Bieb.	<u>UPL</u>		Caucasian clover	Endura
<i>Trifolium arvense</i> L.	<u>UPL</u>		Hare's-foot trefoil	N/A

Full name	Rating	Synonym	Common name	Cultivar (example)
<i>Trifolium dubium</i> Sibth.	UPL		Suckling clover	N/A
<i>Trifolium fragiferum</i> L.	FAC		Strawberry clover	Grasslands Onward
<i>Trifolium glanduliferum</i> Boiss.	<u>UPL</u>		Gland clover	Prima
<i>Trifolium glomeratum</i> L.	<u>UPL</u>		Clustered clover	N/A
<i>Trifolium hybridum</i> L.	FACU		Alsike clover	Tetra
<i>Trifolium incarnatum</i> L.	<u>UPL</u>		Crimson clover	Captain
<i>Trifolium medium</i> L.	<u>UPL</u>		Zig-zag clover	G41
<i>Trifolium michelianum</i> var. <i>balansae</i> (Boiss.) Azn.	<u>UPL</u>	<i>Trifolium balansae</i>	Balansa clover	Bolta
<i>Trifolium micranthum</i> Viv.	<u>UPL</u>		Lesser suckling clover	N/A
<i>Trifolium pratense</i> L.	FACU		Red clover	Relish
<i>Trifolium repens</i> L.	FACU		White clover	Demand
<i>Trifolium resupinatum</i> L.	FACU		Persian clover	Lightning
<i>Trifolium striatum</i> L.	<u>UPL</u>		Striated clover	N/A
<i>Trifolium subterraneum</i> L.	<u>UPL</u>		Subterranean clover	Denmark
<i>Trifolium vesiculosum</i> Savi	<u>UPL</u>		Arrowleaf clover	Arrotas
<i>Vicia hirsuta</i> (L.) Gray	UPL		Hairy vetch	N/A
<i>Vicia lathyroides</i> L.	<u>UPL</u>		Spring vetch	N/A
<i>Vicia sativa</i> L.	FACU		Common vetch	Anadolu

References

Clarkson BR, Fitzgerald NB, Champion PD, Forester L, Rance BD. 2021. *New Zealand Wetland Plant List 2021*. Manaaki Whenua – Landcare Research Limited and Hawke’s Bay Regional Council.

Cosgrove G, Dodd M, James T. 2022. *National list of exotic pasture species*. Prepared for the Ministry for the Environment by AgResearch Ltd. Wellington: Ministry for the Environment.

Cosgrove G, Dodd M, James T. 2022. *National list of exotic pasture species: Literature review*. Prepared for the Ministry for the Environment by AgResearch Ltd. Wellington: Ministry for the Environment.

USDA Plants Database. 2022. *United States Department of Agriculture, Natural Resources Conservation Service*. Retrieved from <https://plants.usda.gov/home> (27 May 2022).

