

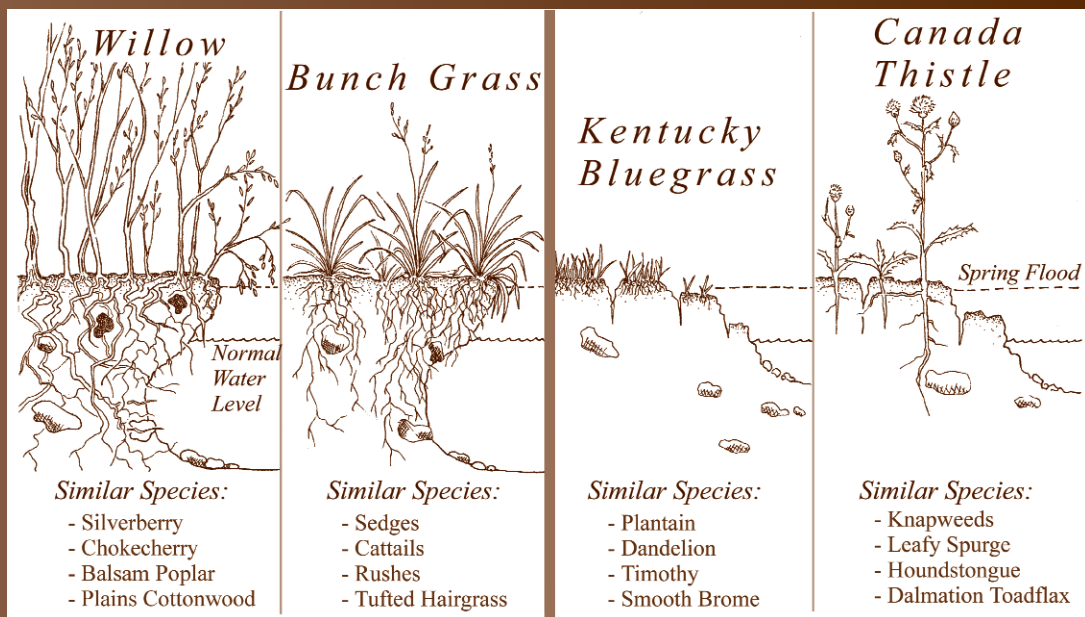
Invasive Weed & Disturbance-caused Undesirable Plant List

For Use in Riparian Health Assessment and Inventory in Alberta

Purpose of this List

This invasive weed and disturbance-caused undesirable herbaceous species list is used by the Cows and Fish staff and others to complete riparian health assessments and inventories. ***This list is a tool that landowners, resource managers, and communities can use in understanding riparian health assessments and examining their own riparian areas.***

A comprehensive list of invasive weeds and disturbance-caused species is necessary for riparian inventory and assessment. In order to accurately determine the health of a riparian area, those completing the assessments need to know which species in the native plant community would be present with natural disturbance and which would not. Weeds and disturbance species may be vigorous competitors that prevent a healthy, native riparian plant community from providing important riparian functions like sediment trapping, bank stabilization, and filtration.



Native Riparian Plants

Disturbance-caused Plants

Invasive Weeds

Weeds and disturbance-caused plants lack the deep binding roots of native riparian plants. This results in unstable banks and increased erosion.

About This List

The list of designated weeds (restricted, noxious, and nuisance) is based on the Weed Designation Regulations of the Weed Control Act of Alberta, most current at the time this list was created. This list was generated to create a consistent list for Alberta, so if you plan to add species or modify this list, be sure to talk to other plant community and riparian experts in the area first. Individual counties and municipal districts occasionally have by-laws that rate the regulated species (restricted, noxious, and nuisance) more stringently. Contact a local agricultural representative to confirm weed designations in your area. Contact the Queen's Printer Bookstore (Edmonton or Calgary) for up-to-date copies of acts or regulations. This invasive weed and disturbance-caused species list was developed in conjunction with information from the Alberta Weed Designation Regulations and extensive experience and testing by Cows and Fish team members and Public Lands Division (Sustainable Resource Development). There may be other invasive or disturbance-caused species or you may find that some species respond differently to disturbance, depending upon the region you are working in.

LEGEND

How to Read the Species Table

Species Code (in the species table) refers to the seven letter code used to record the Latin (scientific) name of a species during riparian health assessments and inventories. The first four letters are usually composed of the beginning of the genus, while the last three letters of the code are the start of the species name. If the genus is only three letters, then four letters are taken from the species portion. These codes are used for consistency and speed of data collection. If you are unfamiliar with the codes or scientific name, ensure that whatever common name you use is verified with a scientific name at a later date, since common names tend to be more variable (and less common) than you might think.

Regulated Category refers to the designation given weeds (restricted, noxious, or nuisance) under the Weed Designation Regulations.

Based on the Weed Designation Regulation (Weed Control Act) in Alberta:

- ◆ **Restricted** weed species are indicated by '1'. Because of the serious management implications these species pose, they are indicated by **bold**;
- ◆ **Noxious** weeds are indicated by '2'
- ◆ **Nuisance** weeds are indicated by '3'
- ◆ Species that are **not regulated** are indicated by '0'

Riparian Health Plant Category refers to the categorization of these plants for riparian health assessment and inventory purposes. Two plant categories are important in riparian health assessments/inventories:

- ◆ **Invasive species** are indicated by 'I'. Invasive species include all restricted, most noxious species, and a few nuisance species
- ◆ **Disturbance-caused undesirable herbaceous species** are indicated by 'D'. They include mostly nuisance weed species and some noxious weed species, as well as native species that increase with disturbance in riparian areas.

Species Code	Latin Name	Common Name	Regulated Category*	Riparian Health Plant Category*
BROMTEC	<i>Bromus tectorum</i>	downy chess/brome	3	I
CARASPP	<i>Caragana spp.</i>	caragana	0	I
CARDCHA	<i>Cardaria chalepensis</i>	hoary cress	2	I
CARDPUB	<i>Cardaria pubescens</i>	globe-podded hoary cress	2	I
CARDNUT	<i>Carduus nutans</i>	nodding thistle	1	I
CENTDIF	<i>Centaurea diffusa</i>	diffuse knapweed	1	I
CENTMAC	<i>Centaurea maculosa</i>	spotted knapweed	1	I
CENTREP	<i>Centaurea repens</i>	Russian knapweed	2	I
CENTSOL	<i>Centaurea solstitialis</i>	yellow star thistle	1	I
CHRYLEU	<i>Chrysanthemum leucanthemum</i>	ox-eye daisy	2	I
CIRSARV	<i>Cirsium arvense</i>	Canada thistle	2	I
CONVARV	<i>Convolvulus arvensis</i>	field bindweed	2	I
CUSCGRO	<i>Cuscuta gronovii</i>	common dodder	1	I
CYNOOFF	<i>Cynoglossum officinale</i>	hound's tongue	2	I
ECHIVUL	<i>Echium vulgare</i>	viper's-bugloss; blueweed	2	I
ELAEANG	<i>Elaeagnus angustifolia</i>	Russian olive	0	I
ERODCIC	<i>Erodium cicutarium</i>	stork's bill	2	I
EUPHCYP	<i>Euphorbia cyparissias</i>	cypress spurge	2	I
EUPHESU	<i>Euphorbia esula</i>	leafy spurge	2	I
GALIAPA	<i>Galium aparine</i>	cleavers	2	I

Species Code	Latin Name	Common Name	Regulated Category*	Riparian Health Plant Category ^x
GALISPU	<i>Galium spurium</i>	false cleavers	2	I
KNAUARV	<i>Knautia arvensis</i>	blue buttons, field scabious	2	I
LINADAL	<i>Linaria dalmatica</i>	broad-leaved/Dalmatian toadflax	3	I
LINAVUL	<i>Linaria vulgaris</i>	butter-and-eggs/ toadflax	2	I
LOLIPER	<i>Lolium persicum</i>	Persian darnel	2	I
LYCHALB	<i>Lychnis alba</i>	white cockle	2	I
LYTHSAL	<i>Lythrum salicaria</i>	purple loosestrife	2	I
MATRPER	<i>Matricaria perforata (maritima)</i>	scentless chamomile	2	I
MYRISPI	<i>Myriophyllum spicatum</i>	Eurasian water milfoil	1	I
ODONSER	<i>Odontites serotina</i>	late-flowering eyebright/ red bartsia	1	I
RANUACR	<i>Ranunculus acris</i>	tall buttercup	2	I
RHAMCAT	<i>Rhamnus catharticus</i>	European (common) buckthorn	0	I
SILECUC	<i>Silene cucubalus</i>	bladder campion	2	I
SONCARV	<i>Sonchus arvensis</i>	perennial sow thistle	2	I
TAMASPP	<i>Tamarix spp.</i>	tamarisk/salt cedar	0	I
TANAVUL	<i>Tanacetum vulgare</i>	common tansy	2	I
AGROPEC	<i>Agropyron pectiniforme</i>	crested wheat grass	0	D
AGROREP	<i>Agropyron repens</i>	quack grass	3	D
AMARRET	<i>Amaranthus retroflexus</i>	red-root pigweed	3	D
ANTESPP	<i>Antennaria spp.</i>	pussy-toes and everlastings	0	D
APOCAND	<i>Apocynum androsaemifolium</i>	spreading dogbane	2	D*
ARCTMIN	<i>Arctium minus</i>	common burdock	0	D
AVENFAT	<i>Avena fatua</i>	wild oat	3	D
AVENSAT	<i>Avena sativa</i>	oats	0	D
BRASNAP	<i>Brassica napus</i>	canola (Argentine)	0	D
BRASKAB	<i>Sinapis arvensis (Brassica kaber)</i>	wild mustard	3	D
BRASRAP	<i>Brassica rapa</i>	canola (Polish)	0	D
BROMINE	<i>Bromus inermis</i>	smooth brome	0	D
BROMJAP	<i>Bromus japonicus</i>	Japanese brome	0	D
CAMPRAP	<i>Campanula rapunculoides</i>	creeping bellflower/garden bluebell	3	D
CAPSBUR	<i>Capsella bursa-pastoris</i>	shepherd's purse	3	D
CHENALB	<i>Chenopodium album</i>	lamb's quarters	0	D
CERAARV	<i>Cerastium arvense</i>	field mouse-ear chickweed	3	D
CERANUT	<i>Cerastium nutans</i>	long-stalked chickweed	0	D
CERAVUL	<i>Cerastium vulgatum</i>	common mouse-ear(ed) chickweed	3	D
CONVSEP	<i>Convolvulus sepium</i>	hedge bindweed/wild morning-glory	3	D
CREPTEC	<i>Crepis tectorum</i>	narrow-leaved/annual hawk's beard	3	D
DESCPIN	<i>Descurainia pinnata</i>	green tansy mustard	3	D
DESCSOP	<i>Descurainia sophia</i>	flixweed	3	D
ERUCGAL	<i>Erucastrum gallicum</i>	dog mustard	3	D
ERYSCHE	<i>Erysimum cheiranthoides</i>	wormseed mustard	3	D
FAGOTAR	<i>Fagopyrum tartaricum</i>	tartary buckwheat	3	D
FRAGSPP	<i>Fragaria spp.</i>	strawberries	0	D
GALETET	<i>Galeopsis tetrahit</i>	hemp-nettle	3	D

+ Regulated refers to these categories: 0-not regulated; 1-restricted; 2-noxious; 3-nuisance

^x Categorization of the species in riparian health assessment/inventories: I-invasive species; D-disturbance-caused undesirable species

* The categorization of this species may change

NOTE: Other non-native or agronomic species may be 'D' too, but are not listed here. If you find a species that is not listed here but should be considered in riparian health assessment or inventory, record it and note that it was included.

Species Code	Latin Name	Common Name	Regulated Category ⁺	Riparian Health Plant Category ^x
HORDJUB	<i>Hordeum jubatum</i>	foxtail barley	0	D
HORDVUL	<i>Hordeum vulgare</i>	barley	0	D
LAMIAMP	<i>Lamium amplexicaule</i>	henbit	3	D
LAPPECH	<i>Lappula echinata</i>	bluebur	3	D
MALVROT	<i>Malva rotundifolia</i>	round-leaved mallow	3	D
MELISPP	<i>Melilotus officinalis</i> and <i>alba</i>	sweet clovers	0	D
NESLPAN	<i>Neslia paniculata</i>	ball mustard	3	D
PHLEPRA	<i>Phleum pratense</i>	timothy	0	D
PISUSAT	<i>Pisum sativum</i>	peas (field)	0	D
PLANSPP	<i>Plantago spp.</i>	plantains	0	D
POACOMP	<i>Poa compressa</i>	Canada bluegrass	0	D
POAPRAT	<i>Poa pratensis</i>	Kentucky bluegrass	0	D
POLYCON	<i>Polygonum convolvulus</i>	wild buckwheat	3	D
POLYPER	<i>Polygonum persicaria</i>	lady's thumb	3	D
POTEANS	<i>Potentilla anserina</i>	silverweed	3	D
POTENOR	<i>Potentilla norvegica</i>	rough cinquefoil	3	D
POTEREC	<i>Potentilla recta</i>	sulfur/rough-fruited cinquefoil	0	D*
RAPHRAP	<i>Raphanus raphanistrum</i>	wild radish	3	D
SALSKAL	<i>Salsola kali</i>	Russian thistle	3	D
SCLEANN	<i>Scleranthus annuus</i>	knawel	2	D*
SECACER	<i>Secale cereale</i>	rye (cereal)	0	D
SETAVIR	<i>Setaria viridis</i>	green foxtail	3	D
SILECSE	<i>Silene cserei</i>	smooth catchfly/biennial campion	3	D
SILENOC	<i>Silene noctiflora</i>	night-flowering catchfly	3	D
SINAARV	<i>Sinapis arvensis</i>	wild mustard	3	D
SONCOLE	<i>Sonchus oleraceus</i>	annual sow thistle	3	D
SPERARV	<i>Spergula arvensis</i>	corn spurry	3	D
STELMED	<i>Stellaria media</i>	common chickweed	3	D
TARAOFF	<i>Taraxacum officinale</i>	common dandelion	3	D
THLAARV	<i>Thlaspi arvense</i>	stinkweed	3	D
TRIFSPP	<i>Trifolium spp.</i>	clovers	0	D
TRITAES	<i>Triticum aestivum</i>	wheat	0	D
VACCPYR	<i>Vaccaria pyramidata/Saponaria vaccaria</i>	cow cockle	3	D
XTRITIC	<i>X Triticosecale</i>	triticale	0	D

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Working with producers and
communities on riparian awareness

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