























<b><i>Knautia arvensis</i></b>			<b>FIELD SCABIOUS</b>		
				<p>Introduced as an ornamental and medicinal uses  Mature plants unpalatable to livestock  Invades open dry grassy areas disturbed and undisturbed  Difficult to eradicate</p>	
Photo Credits: Fornax, Wikimedia Commons (leaf); Prazak, Wikimedia Commons (plants); Mentifisto, Wikimedia Commons (flower)			Photo Credits: Michael H. Lemmer Wikimedia Commons (flower)		
<b><i>Lythrum salicaria</i></b>			<b>PURPLE LOOSESTRIFE</b>		
				<p>This species is an aggressive invader of wetland, riparian and marsh habitats. Forms dense stands replacing native vegetation communities.</p>	
Photo Credits: Leslie J. Mehrhoff, University of Connecticut, Bugwood.org (flower); Eric Coombs, Oregon Department of Agriculture, Bugwood.org (plant)			Photo Credits: John D Byrd Mississippi State University Bugwood.org (blooms); Rob Routledge Sault College Bugwood.org (stem)		
<b>DIFFUSE KNAPWEED</b> <i>Centaurea diffusa</i> Prohibited		<b>SQUARROSE KNAPWEED</b> <i>Centaurea virgata</i> Prohibited		<b>SPOTTED KNAPWEED</b> <i>Centaurea stobe</i> Prohibited	
<b>RUSSIAN KNAPWEED</b> <i>Acroptilon repens</i> Noxious					
Photo Credits: Cindy Roche Bugwood.org (diffuse); Steve Dewey, Utah State University, Bugwood.org (squarrose)		Photo Credits: Rob Routledge Sault College Bugwood.org (Spotted); Steve Dewey, Utah State University, Bugwood.org (Russian)			
<b>BULL THISTLE</b> <i>Cirsium vulgare</i> Noxious		<b>WAVY LEAVED THISTLE</b> <i>Cirsium undulatum</i> NATIVE		<b>NODDING THISTLE</b> <i>Carduus nutans</i> Noxious	
<b>CANADA THISTLE</b> <i>Cirsium arvense</i> Noxious					
Photo Credits: John Cardina, The Ohio State University (bull); easterncoloradowildflowers.com (wavy leaved)		Photo Credits: Ricky Layson Photography Bugwood.org (nodding); Mary Ellen (Mel) Harte Bugwood.org (Canada)			

<p style="text-align: center;"><b>Reporting Contacts</b></p> <p><b>This is a Prohibited Species in Saskatchewan please report</b>  <b>Report To:</b> Local Rural/Urban Municipalities, Weed Inspectors, Landowners  <b>Email:</b> <a href="mailto:invasives.imap@gov.sk.ca">invasives.imap@gov.sk.ca</a>  <b>Sign Up for a free iMap Invasives account:</b>  <a href="https://imapinvasives.natureserve.org/imap/login.jsp">https://imapinvasives.natureserve.org/imap/login.jsp</a></p> <p><b>Contact:</b> Beryl Wait  Invasive Species Coordinator  Saskatchewan Conservation Data Centre  112 Research Drive, Saskatoon, SK S7N 3R3  306-933-6436 (W)  <a href="mailto:beryl.wait@gov.sk.ca">beryl.wait@gov.sk.ca</a></p> 	<p style="text-align: center;"><b>Distinguishing Characteristics</b></p> <ul style="list-style-type: none"> <li>• Stem erect and hairy</li> <li>• Leaves hairy and coarsely toothed</li> <li>• Flower heads range from violet-blue to pale blue to white in color growing on the end of a long leafless stalks</li> <li>• Ring of narrow green bracts below flower head</li> </ul> <p>A Fact Sheet specific to this species can be found at  Saskatchewan Conservation Data Centre  <a href="http://www.biodiversity.sk.ca">www.biodiversity.sk.ca</a></p>
<p style="text-align: center;"><b>Reporting Contacts</b></p> <p><b>This is a Noxious Species in Saskatchewan please report</b>  <b>Report To:</b> Local Rural/Urban Municipalities, Weed Inspectors, Landowners  <b>Email:</b> <a href="mailto:invasives.imap@gov.sk.ca">invasives.imap@gov.sk.ca</a>  <b>Sign Up for a free iMap Invasives account:</b>  <a href="https://imapinvasives.natureserve.org/imap/login.jsp">https://imapinvasives.natureserve.org/imap/login.jsp</a></p> <p><b>Contact:</b> Beryl Wait  Invasive Species Coordinator  Saskatchewan Conservation Data Centre  112 Research Drive, Saskatoon, SK S7N 3R3  306-933-6436 (W)  <a href="mailto:beryl.wait@gov.sk.ca">beryl.wait@gov.sk.ca</a></p> 	<p style="text-align: center;"><b>Distinguishing Characteristics</b></p> <ul style="list-style-type: none"> <li>• Long narrow spike (raceme) of numerous pink to purplish flowers comprised of six petals</li> <li>• Stem square</li> <li>• Leaves clasping, narrowly lanceolate, opposite in cureat arrangement/orientation</li> </ul> <p>A prolific seed producer whose tiny seeds are easily spread by water, wind, wildlife and humans. Cut flower stalks prior to seed production</p> <p>More Information on this species can be found at  Saskatchewan Conservation Data Centre Website</p>
<p style="text-align: center;"><b>KNAPWEED FLOWER COMPARISON</b></p>	<p style="text-align: center;"><b>KNAPWEED BRACT COMPARISON</b></p>
 <p>Russian Knapweed far left;  Spotted Knapweed center left;  Diffuse Knapweed center right;  Squarrose Knapweed far right</p> <p><small>UGA1459251</small></p>	 <p>Spotted Knapweed bracts (left) with black spot  Diffuse Knapweed bracts (center) with small erect awn  Russian Knapweed bracts (right) no awn transparent margins</p> <p>Squarrose Knapweed bracts (not shown) awn reflexed/bent</p> <p><small>UGA1459736</small></p>
<p>Photo Credits: Steve Dewey, Utah State University, Bugwood.org (flowers)</p>	<p>Photo Credits: Steve Dewey, Utah State University, Bugwood.org (bracts)</p>
<p style="text-align: center;"><b>THISTLE FLOWER AND LEAF COMPARISON</b></p>	<p style="text-align: center;"><b>THISTLE BRACT COMPARISON</b></p>
 <p>Nodding Thistle upper left  Canada thistle lower left  Bull Thistle upper right  Scotch Thistle lower right  Wavy not shown</p> <p><small>UGA1459737</small></p>	 <p>Nodding Thistle upper left  Canada Thistle lower left  Bull Thistle upper right  Scotch Thistle lower right  Wavy not shown</p> <p><small>UGA1459736</small></p>
<p>Photo Credits: Steve Dewey Utah State University Bugwood.org (comparison photos)</p>	<p>Photo Credits: Steve Dewey Utah State University Bugwood.org (comparison photos)</p>

**Tamarix species**



Photo Credits: Steve Dewey, Utah State University (plant); Joseph M. DiTomaso, University of California – Davis Bugwood.org (flowers, seedling)

**SALT CEDAR**



Photo Credits: Steve Dewey, Utah State University, Bugwood.org (flower); Bonnie Million Bureau of Land Management Bugwood.org (branch)

**Anoplophora glabripennis**



O shaped holes  
Targets broad leaf prefers maple

Photo Credits: Kenneth R. Law USDA APHIS PPQ Bugwood.org (life stages); Dennis Haugen USDA Forest Service Bugwood.org (external damage)

**ASIAN LONGHORNED BEETLE**



Shiny black with prominent irregular white spots  
Distinct blueish-white legs  
Long black and white banded antennae  
1to2x body length

Photo Credits: Dennis Haugen, USDA Forest Service Bugwood.org (closeup)

**Distinguishing Characteristics**



Distinguishing Prussian Carp from “naturalized” Goldfish which have lost their distinctive gold coloring and or genetic hybrids/clones may require genetic testing

Photo Credits: Alberta Environment and Parks (group)

**GOLDFISH  
Carassius auratus**



Photo Credits: OFAH/OMNR Invading Species Awareness Program Illustration by Joe Tomelleri

**PRUSSIAN CARP  
Carassius gibelio**



**Butomus umbellatus**


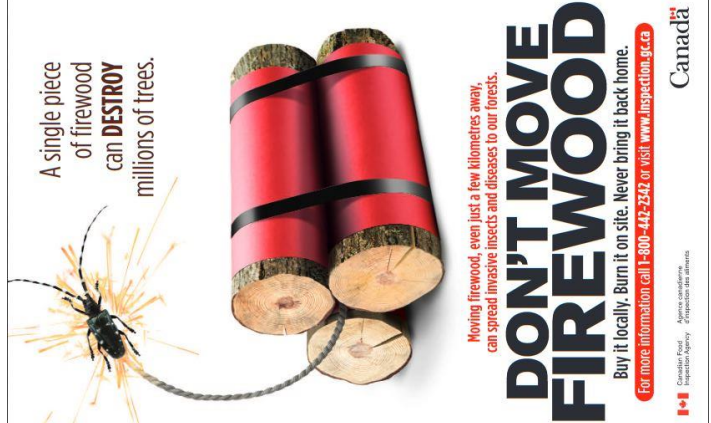



Photo Credits: Leslie J. Mehrhoff University of Connecticut Bugwood.org (bulblets); Chet Neufeld Native Plant Society of Saskatchewan (plant and leaves)

**FLOWERING RUSH**



Photo Credits: Leslie J. Mehrhoff, University of Connecticut Bugwood.org (flower)

<h2 style="text-align: center;">Reporting Contacts</h2>	<h2 style="text-align: center;">Distinguishing Characteristics</h2>
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	<h2 style="text-align: center;">Basic Information</h2> <ul style="list-style-type: none"> <li>• The Asian Long Horned Beetle attacks nearly all broad leaved trees including Poplar, Elm, Birch and willows. Maple (<i>Acer</i>) trees are preferred.</li> <li>• Adults emerge in late May to July, chew a shallow oval pit and deposit an egg (single adult lays 100 eggs) develop into larvae (1 week to several months)</li> <li>• The resulting larvae feed on the cambium and then tunnel deeper in to the tree eventually killing it. More Information on this species can be found at Saskatchewan Conservation Data Centre Website</li> </ul>
	<h2 style="text-align: center;">Basic Prevention</h2> <p style="text-align: center;">DON'T MOVE LIVE FISH TO NEW WATERS  DON'T USE LIVE BAIT OR DUMP LIVE BAIT OR AQUARIUMS INTO WATER BODIES  DON'T STORE, DISPOSE, OR RELEASE PETS OR AQUARIUM CONTENTS OUTDOORS INTO STREAM, LAKES, RIVERS OR FLUSH DOWN TOILETS, INTO STORM DRAINS OR TREATMENT/STORAGE/STORMWATER PONDS  KEEP WATER GARDENS, PONDS, AQUARIUMS ISOLATED FROM NATURAL SYSTEMS</p>
<h2 style="text-align: center;">Reporting Contacts</h2>	<h2 style="text-align: center;">Distinguishing Characteristics</h2>
<p><b>This is a Prohibited Species in Saskatchewan please report</b>  <b>Report To:</b> Local Rural/Urban Municipalities, Weed Inspectors, Landowners  <b>Email sightings to:</b> <a href="mailto:invasives.imap@gov.sk.ca">invasives.imap@gov.sk.ca</a>  Please include the following information  <b>Who:</b> John Doe along with <b>Contact Information</b> (email preferred)  <b>Where:</b> GPS co-ordinates or an exact land location or address  <b>When:</b> the date of the sighting/observation  <b>Habitat:</b> wetland, ditch etc.  <b>Additional Details:</b> number, life stage, controls  Please include a <b>Photo</b> (preferred) or collect and press a specimen for “confirmation” or observations will remain “unconfirmed”</p>	<ul style="list-style-type: none"> <li>• Flowers grown in umbel shaped clusters of whitish-pink flowers.</li> <li>• Leaves are sword-like, triangular in cross section, up to 1.5m in height, spongy, reddish tinge at base. Leaf tips spirally twisted, under water leaves limp.</li> <li>• Hand dig and dispose of with care. Avoid disturbing root system until fragments can be captured.</li> </ul> <p>A Fact Sheet specific to this species can be found at Saskatchewan Conservation Data Centre  <a href="http://www.biodiversity.sk.ca">www.biodiversity.sk.ca</a></p>

## *Centaurea solstitialis*



Photo Credits: Mary Ellen (Mel) Harte Bugwood.org (leaf, stem); Charles Turner USDA Agricultural research Service Bugwood.org (plant)

## YELLOW STARThISTLE



Photo Credits: Steve Dewey, Utah State University, Bugwood.org (flower)

## *Agrilus planipennis*



D  
shaped  
holes  
Targets  
Ash  
trees

Photo Credits: ); Debbie Miller USDA Forest Service Bugwood.org (distance); Debbie Miller USDA Forest Service (hole)

## EMERALD ASH BORER



Photo Credits: David Cappaert, Bugwood.org (closeup)

## *Dreissena bugensis* and *Dreissena polymorpha*



Photo Credits: Amy Benson US Geological Survey Bugwood.org (size zebra); United States Environmental Protection Agency Great Lakes National Program Office USEPA (infestation)

## QUAGGA AND ZEBRA MUSSELS



Photo Credits: Amy Benson US Geological Survey Bugwood.org (quagga left; zebra right)

## *Lilioceris lili*



Photo Credits: Richard A. Casagrande University of Rhode Island Bugwood.org (larvae and eggs)

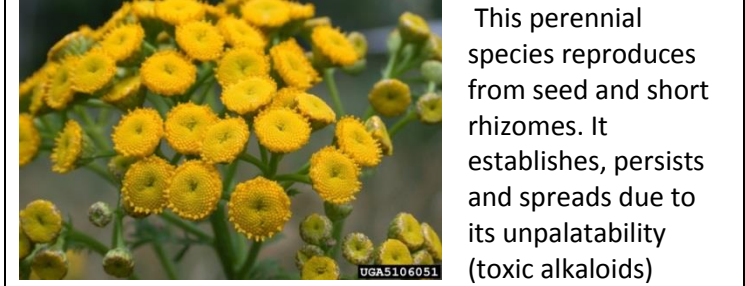
## LILY LEAF BEETLE



Photo Credits: Lisa Tewksbury, University of Rhode Island Bugwood.org (adult)



<b><i>Tanacetum vulgare</i></b>	<b>COMMON TANSY</b>
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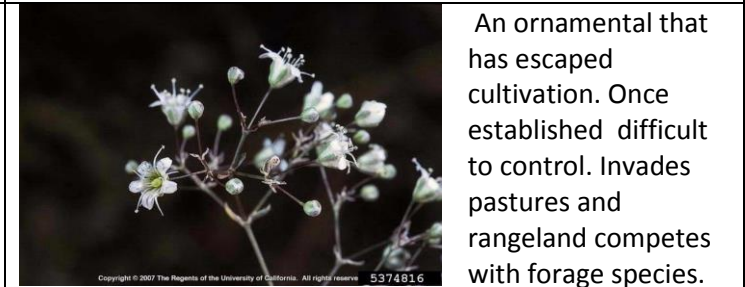
This perennial species reproduces from seed and short rhizomes. It establishes, persists and spreads due to its unpalatability (toxic alkaloids)

Photo Credits: Mary Ellen (Mel) Harte, Bugwood.org (leaf); Michael Shephard, USDA Forest Service, Bugwood.org (plant)

Photo Credits: Mary Ellen (Mel) Harte, Bugwood.org (flower); Steve Dewey Utah State University Bugwood.org (flower and leaf)

***Gypsophila paniculata***

**BABY'S-BREATH**



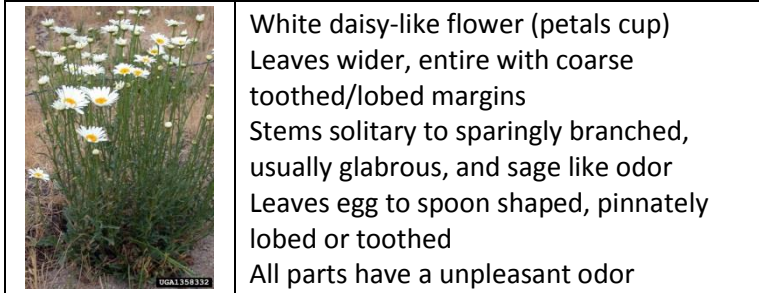
An ornamental that has escaped cultivation. Once established difficult to control. Invades pastures and rangeland competes with forage species.

Photo Credits: Joseph M. DiTomaso University of California – Davis, Bugwood.org (plant and stem)

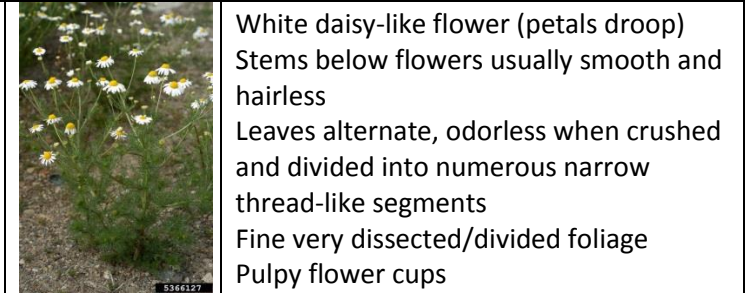
Photo Credits: Joseph M. DiTomaso University of California – Davis, Bugwood.org (flower)

**OXEYE DAISY**  
***Leucanthemum vulgare***  
**Noxious**

**SCENTLESS CHAMOMILE**  
***Matricaria perforata***  
**Noxious**



White daisy-like flower (petals cup)  
Leaves wider, entire with coarse toothed/lobed margins  
Stems solitary to sparingly branched, usually glabrous, and sage like odor  
Leaves egg to spoon shaped, pinnately lobed or toothed  
All parts have a unpleasant odor



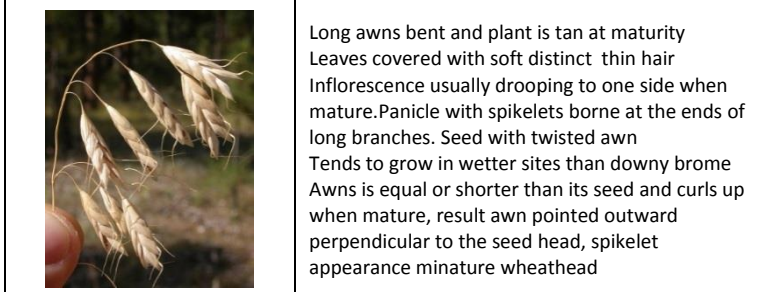
White daisy-like flower (petals droop)  
Stems below flowers usually smooth and hairless  
Leaves alternate, odorless when crushed and divided into numerous narrow thread-like segments  
Fine very dissected/divided foliage  
Pulpy flower cups

Photo Credits: Mary Ellen (Mel) Harte, Bugwood.org (oxeye plant)

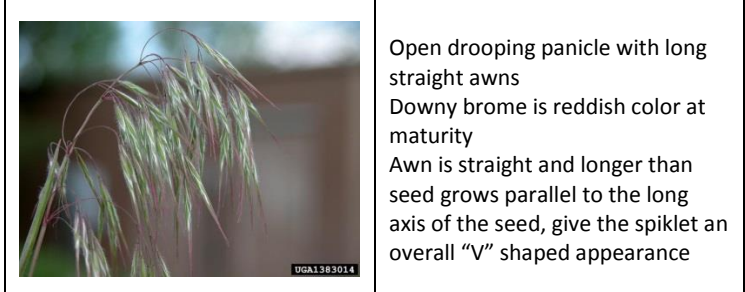
Photo Credits: K. George Beck and James Sebastian, Colorado State University, Bugwood.org (scentless plant)

**JAPANESE BROME**  
***Bromus japonicus***  
**Noxious**

**DOWNY BROME**  
***Bromus tectorum***  
**Noxious**










Long awns bent and plant is tan at maturity  
Leaves covered with soft distinct thin hair  
Inflorescence usually drooping to one side when mature. Panicle with spikelets borne at the ends of long branches. Seed with twisted awn  
Tends to grow in wetter sites than downy brome  
Awns is equal or shorter than its seed and curls up when mature, result awn pointed outward perpendicular to the seed head, spikelet appearance miniature wheathead



Open drooping panicle with long straight awns  
Downy brome is reddish color at maturity  
Awn is straight and longer than seed grows parallel to the long axis of the seed, give the spikelet an overall "V" shaped appearance

Photo Credits: Matt Lavin Wikimedia commons (inflorescence)

Photo Credits: Tom Heutte, USDA Forest Service, Bugwood.org (inflorescence)

Reporting Contacts	Distinguishing Characteristics
<p><b>This is a Noxious Species in Saskatchewan please report</b>  <b>Report To:</b> Local Rural/Urban Municipalities, Weed Inspectors, Landowners  <b>Email:</b> <a href="mailto:invasives.imap@gov.sk.ca">invasives.imap@gov.sk.ca</a>  <b>Sign Up for a free iMap Invasives account:</b>  <a href="https://imapinvasives.natureserve.org/imap/login.jsp">https://imapinvasives.natureserve.org/imap/login.jsp</a></p> <p><b>Contact:</b> Beryl Wait  Invasive Species Coordinator  Saskatchewan Conservation Data Centre  112 Research Drive, Saskatoon, SK S7N 3R3  306-933-6436 (W)  <a href="mailto:beryl.wait@gov.sk.ca">beryl.wait@gov.sk.ca</a></p> 	<ul style="list-style-type: none"> <li>• Foliage deeply and pinnately divided with toothed margins</li> <li>• Leaves arranged alternately along the main stem</li> <li>• Leaves deeply divided into numerous leaflets with toothed edges</li> <li>• Stems often dark brown to purple in color when mature</li> <li>• Flowers yellow, numerous “button-like”, lacking prominent ray petals</li> </ul>
<h3 style="text-align: center;">Reporting Contacts</h3>	<h3 style="text-align: center;">Distinguishing Characteristics</h3>
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<h3 style="text-align: center;">SHASTA DAISY</h3> <h4 style="text-align: center;"><i>Leucanthemum X superbum</i></h4> <h3 style="text-align: center;">ORNAMENTAL</h3>	<h3 style="text-align: center;">PLANT LEAF COMPARISON</h3>
 <p>White daisy-like flower  Leaves entire with finely toothed margin  A popular ornamental which tend to be taller, larger more robust plant (bushy) later blooming, with larger flowers than Oxeye  reputedly lacks invasive tendency of Oxeye  some reports contradict this and reports of evasive hybrids are reported as well</p>	 <p>Oxeye Daisy Leaf (left)  Scentless Chamomile Leaf (right)  Shasta Daisy (center)</p>
<p>Photo Credits: John Ruter University of Georgia (Shasta); Cape May Plants An Identification Guide (Shasta leaf)</p>	<p>Photo Credits: Ohio State Weed Lab, The Ohio State University (oxeye leaf); Robert Videki, Doromicum kft., Bugwood.org (scentless chamomile leaf)</p>
<h3 style="text-align: center;">Reporting Contacts</h3>	<h3 style="text-align: center;">BROME INFLORESCENCE COMPARISON</h3>
<p><b>These are Noxious Species in Saskatchewan please report</b>  <b>Report To:</b> Local Rural/Urban Municipalities, Weed Inspectors, Landowners  <b>Email:</b> <a href="mailto:invasives.imap@gov.sk.ca">invasives.imap@gov.sk.ca</a>  <b>Sign Up for a free iMap Invasives account:</b>  <a href="https://imapinvasives.natureserve.org/imap/login.jsp">https://imapinvasives.natureserve.org/imap/login.jsp</a></p> <p><b>Contact:</b> Beryl Wait  Invasive Species Coordinator  Saskatchewan Conservation Data Centre  112 Research Drive, Saskatoon, SK S7N 3R3  306-933-6436 (W)  <a href="mailto:beryl.wait@gov.sk.ca">beryl.wait@gov.sk.ca</a></p> 	 <p>Japanese Brome (left)  More fine, blunter ligule, panicle less droopy, spikelets more compact</p>  <p>Downy Brome (right)</p>
	<p>Photo Credits: North Dakota State University NDSU Extension Service (Japanese and Downy comparison)</p>



***Arctium minus***



**COMMON BURDOCK**



Photo Credits: Mary Ellen (Mel) Harte, Bugwood.org (plant, leaves); Ansel Oommen, Bugwood.org (inflorescence)

Photo Credits: Theodore Webster USDA Agricultural Service Bugwood.org

***Pastinaca sativa***

**WILD PARSNIP**



Photo Credits: Rob Routledge Sault College Bugwood.org (leaf); John Cardina The Ohio State University Bugwood.org (flower)

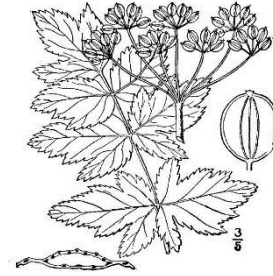


Photo Credits: Rob Routledge, Sault College, Bugwood.org (plant); Ohio State Weed Lab Bugwood.org (Leaf)

**CYPRESS SPURGE**  
***Euphorbia cyparissias***  
**Noxious**

**LEAFY SPURGE**  
***Euphorbia esula***  
**Noxious**



Leaves whorled appearance  
Smaller more numerous flowers  
Fruits turn a peach-orange-red color in fall

Photo Credits: Leslie J. Mehrhoff, University of Connecticut Bugwood.org (cypress)



Leaves not in whorls  
Long and strap shaped  
Modified leaf forms cup shaped "flower"  
"Flowers" yellow-green in color  
"Flowers" larger  
Milky sap in all parts of the plant

Photo Credits: Robert Videki Doronicum Kft Bugwood.org (leafy)

**DALMATIAN TOADFLAX**  
***Linaria dalmatica***  
**Prohibited**







**COMMON TOADFLAX**  
***Linaria vulgaris***  
**Noxious**



Photo Credits: K. George Beck and James Sebastian Colorado State University (plant, leaf); Bob Nowierski Montana State University Bugwood.org (flower)



Photo Credits: Wendy VanDyk Evans Bugwood.org (flower); Bonnie Million National Park Service Bugwood.org (leaves)

Reporting Contacts	Distinguishing Characteristics
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Reporting Contacts	Distinguishing Characteristics
<p><b>This is a Noxious Species in Saskatchewan please report</b>  <b>Report To:</b> Local Rural/Urban Municipalities, Weed Inspectors, Landowners  <b>Email:</b> <a href="mailto:invasives.imap@gov.sk.ca">invasives.imap@gov.sk.ca</a>  <b>Sign Up for a free iMap Invasives account:</b>  <a href="https://imapinvasives.natureserve.org/imap/login.jsp">https://imapinvasives.natureserve.org/imap/login.jsp</a></p> <p><b>Contact:</b> Beryl Wait  Invasive Species Coordinator  Saskatchewan Conservation Data Centre  112 Research Drive, Saskatoon, SK S7N 3R3  306-933-6436 (W)  <a href="mailto:beryl.wait@gov.sk.ca">beryl.wait@gov.sk.ca</a></p> 	<ul style="list-style-type: none"> <li>• Yellow flowered umbel</li> <li>• Pinnate leaf with clasping leaflets and leaflets lanceolate with lobed and serrated margins</li> </ul> <p style="text-align: center;"><b>CAUTION</b></p> <p>is known to contain furocoumarins that can make the skin sensitive to light.  Development of burns and blisters (up to 48 hours after and sensitivity lasting for months), after handling plants and exposure to sunlight have been reported</p>
Reporting Contacts	SPURGE PLANT COMPARISON
<p><b>These are Noxious Species in Saskatchewan please report</b>  <b>Report To:</b> Local Rural/Urban Municipalities, Weed Inspectors, Landowners  <b>Email:</b> <a href="mailto:invasives.imap@gov.sk.ca">invasives.imap@gov.sk.ca</a>  <b>Sign Up for a free iMap Invasives account:</b>  <a href="https://imapinvasives.natureserve.org/imap/login.jsp">https://imapinvasives.natureserve.org/imap/login.jsp</a></p> <p><b>Contact:</b> Beryl Wait  Invasive Species Coordinator  Saskatchewan Conservation Data Centre  112 Research Drive, Saskatoon, SK S7N 3R3  306-933-6436 (W)  <a href="mailto:beryl.wait@gov.sk.ca">beryl.wait@gov.sk.ca</a></p> 	 <p>Milky sap in plant parts  Cypress Spurge (left)  Leaves appear whorled  Leafy Spurge (right)  Leaves not in whorls</p> <p>Photo Credits: Leslie J. Mehrhoff University of Connecticut (comparison)</p>
Reporting Contacts	TOADFLAX PLANT COMPARISON
<p><b>These are Prohibited and Noxious Species in Saskatchewan please report</b>  <b>Report To:</b> Local Rural/Urban Municipalities, Weed Inspectors, Landowners  <b>Email:</b> <a href="mailto:invasives.imap@gov.sk.ca">invasives.imap@gov.sk.ca</a>  <b>Sign Up for a free iMap Invasives account:</b>  <a href="https://imapinvasives.natureserve.org/imap/login.jsp">https://imapinvasives.natureserve.org/imap/login.jsp</a></p> <p><b>Contact:</b> Beryl Wait  Invasive Species Coordinator  Saskatchewan Conservation Data Centre  112 Research Drive, Saskatoon, SK S7N 3R3  306-933-6436 (W)  <a href="mailto:beryl.wait@gov.sk.ca">beryl.wait@gov.sk.ca</a></p> 	 <p>Stems erect hairless, No milky sap  Pale green  Yellow snap dragon like flowers  Common Toadflax left  Narrow lance shaped leaves  Dalmatian Toadflax right  ovate broad to heart shaped clasp stem  Hybrid in middle</p> <p>Photo Credits: Elizabeth Goulet Cornell University Bugwood.org (comparison)</p>

<b>COMMON CATTAIL</b> <i>Typha latifolia</i> <b>NATIVE</b>	<b>NARROW LEAVED CATTAIL</b> <i>Typha angustifolia</i> <b>INVASIVE</b>
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Photo Credits: Mary Ellen (Mel) Harte Bugwood.org (no gap close-up); Beryl Wait Common Cattail on left, Narrow Leaved Cattail on right (center photo)	Photo Credits: Beryl Wait (close-up), Common Cattail on left, Narrow Leaved Cattail on right (center photo), gap between male and female flowers (right)
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<b>NATIVE COMMON REEDGRASS</b> <i>Phragmites australis ssp. americanus</i> <b>NATIVE</b>	<b>EUROPEAN COMMON REEDGRASS</b> <i>Phragmites australis ssp. australis</i> <b>INVASIVE</b>
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References: Invasive Phragmites – Best Management Practices Ontario Ministry of Natural Resources 2011	Photo Credits: Michigan State University Extension
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<b>COW PARSNIP</b> <i>Heracleum lanata</i> <b>NATIVE</b>	<b>GIANT HOGWEED</b> <i>Heracleum mantegazzianum</i> <b>Prohibited</b>
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Photo Credits: Dr. James Altland – Oregon State University (stem and leaf); minnesotawildflowers Peter M. Dziuk (plant)	Photo Credits: Donna R. Ellis University of Connecticut leaf; Barbara Tokarska-Guzik University of Silesia plant; Robert Videki Doronicum Kft stem Bugwood.org
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<b>NORTHERN WATERMILFOIL</b> <i>Myriophyllum sibiricum</i> <b>NATIVE</b>	<b>EURASIAN WATERMILFOIL</b> <i>Myriophyllum spicatum</i> <b>Prohibited</b>
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 <p>Native species have fewer leaflets 14(5-10), and can form a turion, apical meristem rounded, leaflet length not equal (forming rounded apex to leaf), foliage does not collapse with removed from water, sparse branching near surface</p> <p>Please note the identification between the various species of watermilfoil can be difficult there are other native watermilfoil species attention to differences in leaflet pairs, bract length and turion buds can be defining</p>	 <p>In general has more 14(12-20) leaflet pairs, and reduced bracts on the inflorescence          Leaflet length mostly equal (square shape)          Foliage collapse (hangs limp) when removed from water          Dense branching near water surface          Stem branching near water surface          Apical meristem flat          No winter bud (turion)</p>
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Photo Credits: John Halpop – Montana State University Extension (leaf comparisons)	Photo Credits: John Halpop – Montana State University Extension (leaf comparisons)
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INVASIVE CATTAIL Distinguishing Characteristics	NATIVE CATTAIL Distinguishing Characteristics
<ul style="list-style-type: none"> <li>Leaves taller and narrower than common cattail</li> <li>There is a gap between female and male flowers</li> <li>Is more aggressive and can outcompete common cattail especially in disturbed areas</li> <li>Longer narrower, firmer “cattail”</li> <li>Foliage dark blue-green in color</li> <li>Watch out for Hybrid Cattail (<i>Typha glauca</i>) exhibit characteristics of both species</li> <li>Still some debate whether species is native or not</li> </ul>	<ul style="list-style-type: none"> <li>Leaves shorter and wider than narrow leaved cattail</li> <li>There is no gap between the female and male flowers</li> <li>Shorter wider, softer “cattail”</li> <li>Foliage yellow-green in color</li> <li>Watch out for Hybrid Cattail (<i>Typha glauca</i>) exhibit characteristics of both species</li> </ul>

INVASIVE PHRAGMITES Distinguishing Characteristics	NATIVE PHRAGMITES Distinguishing Characteristics
<ul style="list-style-type: none"> <li>Grows in stands that are extremely dense, usually crowds out other species</li> <li>Taller can reach height of up to 5 meters, rigid</li> <li>Stems are tan or beige in color, rough and dull with blue-green leaves and larger dense seed heads</li> <li>Leaf sheaths remain attached difficult to remove</li> <li>Lower glume 2.6 to 4.2 mm (less than 4mm)</li> <li>Flowering Intermediate (August to September)</li> </ul>	<ul style="list-style-type: none"> <li>Grows in stands that are usually not as dense as the invasive species, Well established stands are frequently mixed with other plant species</li> <li>Stems usually no taller than 2 meters, highly flexible</li> <li>Usually stems are reddish-brown, smooth and shiny yellow-green leaves and smaller sparser seed heads</li> <li>Lower glume 3.7 to 7 mm (greater than 4 mm)</li> <li>Flowering Early (July to August)</li> </ul>

References: Michigan State University Extension  
<https://mnfi.anr.msu.edu/phragmites/phragmites-native-non-native.pdf>

References: Distinguishing Native and Exotic Forms of Common Reed (*Phragmites australis*) in the United States Jill Swearingen, Kristin Saltonstall 2010

INVASIVE GIANT HOGWEED Distinguishing Characteristics	NATIVE COWPARSNIP Distinguishing Characteristics
<ul style="list-style-type: none"> <li>Very large up to 5 m tall. Stem single stout (5 cm diameter) and hollow with dark reddish-purple spots (Prominent purple blotches, Distinct coarse bristly hairs)</li> <li>Leaves large and deeply lobed with sharply toothed margins (prominently spiked edges), coming off main stem with little to no leafstalk</li> <li>Flowers white large umbels with rounded tops up to 1 m (30-90 cm) wide, 50-150 clusters</li> <li><b>CAUTION</b> sap can cause very severe, painful blisters and burns (photodermatitis)</li> </ul>	<ul style="list-style-type: none"> <li>Cow Parsnip, leaves less spikey and smaller, not as tall (only 1-2 m tall) flower heads smaller 20 cm (10-30 cm) wide, fewer clusters (15-30)</li> <li>Leaf lobes shaped like a hand with fingers, fuzzy undersides, leaf blade separated from main stem by a leaf stalk</li> <li>Stem green, few to no purple spots, soft and fuzzy hairs</li> <li><b>CAUTION</b> sap combined with exposure to sunlight causing blisters and burns (photodermatitis) have been reported</li> </ul>

WATERMILFOIL LEAF COMPARISON	WATERMILFOIL PLANT COMPARISON
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Photo Credits: Gary Fewless Cofrin Center for Biodiversity Herbarium (single leaves)

Photo Credits: Gary Fewless Cofrin Center for Biodiversity Herbarium (plants); Illustrations Hilary Parkinson (Eurasian left) Northern (right)

## BASIC DIRECTIONS

### SPECIES INFORMATION CARDS

Each Set of Pages is meant to be printed off on a double sided page.

Each Page can then be trimmed along the top, bottom and sides and then cut along the line between each species and folded in half to form a card about the size of a standard credit card

The upper left corner can then be hole punched and threaded on a key chain to form a handy photo reference