



Annual Review of CSISS Operational Plan Priority Invasive Plant List

Land Manager's Meeting:

February 23, 2017 12:30pm-3:30pm Revelstoke, BC. McPherson room, Revelstoke Community Centre. (or by conference call). For more info/RSVP: contact info@columbiashuswapinvasives.org

Agenda

12:30 – 12:50pm: Registration and Networking (coffee and tea provided)

12:50 – 1:00 pm: Introductions, Review “Overview and Purpose of Meeting” (Page 2)

1:00 – 2:00 pm: Review “Part 1: Proposed Updates to CSISS Priority Plant List” including containment lines (Page 3-7)

2:00 - 2:30pm: Review “Part 2: Proposed New Species to Priority Lists” (Page 7-9)

2:30 – 3:00pm: Review “Part 3: Proposed New Categories” including provincially prohibited and unlisted species (Page 9-10)

3:00 – 3:30pm: Final Comments and Closing



Overview and Purpose

The Columbia Shuswap Invasive Species Society is doing an annual review of their Priority Invasive Plant lists from the CSISS' Invasive Plant Management Area (IPMA) Operational Plan. Your input is critical in ensuring the delivery of an effective, efficient, and coordinated invasive plant program in the Columbia Shuswap. The goal of this meeting is to enable land managers to provide guidance and input on the Invasive Plant Management Area Operational Plan Lists. The meeting objectives are to 1) Share updates on invasive plant management activities of each organization; and 2) Revisit prioritization of invasive plant species and activities for treatments, inventories, monitoring and data management.

This annual review of the Priority Invasive Plant Lists is based on the CSISS Operational Plan (2014-2018): "The scope of this plan is to determine the terrestrial and riparian invasive plant species that have the potential to impact the ecological, economic or social well-being of the region and to facilitate their prevention, reduction and management. This plan reflects local priorities for invasive plant management within a five-year time frame with the understanding that the plan will be revisited annually." Therefore, this is not a full update of the Plan, but rather an annual 'revisiting' with the intent to update the priority plant list, add new species and any new categories required based on IAPP database and expert advice from land managers.

To view the full CSISS Operational Plan: http://columbiashuswapinvasives.org/wp-content/uploads/2014/03/CSISS_Operational_Plan_Final.pdf and attached Appendix G Containment Lines to be reviewed at the Land Managers Meeting February 2017. See below Table 1 for a review of the priority ranking categories from invasive plant species.

TABLE 1: DEFINITION OF PRIORITY RANKING CATEGORIES FOR INVASIVE PLANT SPECIES.

Priority Ranking	Description
EDRR WATCHLIST (Prevention) (1)	These species are not currently known in this IPMA but are known to occur in the Columbia-Shuswap region. The goal for these species is immediate eradication if they are detected. EDRR reporting and action protocols for these species are outlined in Section 3.4. These sites are extremely high priority for treatment and eradication is the management objective.
ERADICATION OR ANNUAL CONTROL	These species are known in the IPMA but with very limited distribution. Some of these species may have been present for a relatively long period so monitoring for



(2)	spread is the management objective. Other species are relatively new to the IPMA so eradication is the objective.
CONTAINMENT (3)	These species are abundant (with no expectation of eradication) in certain portions of the IPMA but have not yet infested all potential habitats. Management efforts are delineated by containment lines which may be based on geographic (i.e. a specific region) or jurisdictional boundaries (e.g. private gardens only). Some of these species have biocontrol (BC) agents available which may be useful within the containment line. Containment is the management objective.
ESTABLISHED (BIOCONTROL OR SITE- SPECIFIC APPROACH) (4)	These are widespread species that are beyond landscape-level control and/or have relatively low impact. Land managers may choose to treat these species at high priority sites (e.g. wildlife habitat, corridors of spread, adjacent to agricultural land, restoration goals, etc.) based on specific land management objectives. Some of these species have biological control agents available.
INSUFFICIENT INFORMATION (5)	There is insufficient information for these species on their distribution, impacts, potential for spread and/or feasibility of control. In some cases, species have also been classified in one of the other categories because enough is known about their distribution. They also appear in this category because further information is still required.

Part 1: Proposed Updates to CSISS Priority Plant List

See table below with 2013 priority ranking by Invasive Plant Management Area (IPMA), and 2017 proposed ranking. The proposed ranking changes are based on up to date (until December 31 2016) compiled IAPP data (see Appendix A), and preliminary meetings with provincial Ministry specialists (April 2016).



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Species	Bio-control?	Relevant legislation ¹	Salmon Arm IPMA 2013	Salmon Arm IPMA 2017	Revelstoke IPMA 2013	Revelstoke IPMA 2017	Golden IPMA 2013	Golden IPMA 2017
Baby's breath (GYPS PAN)		CCA, FRPA	1	1	1	1	2	2
Bighead knapweed (CENT MAC)			2	2	1	1	1	2
Bittersweet nightshade / Nightshade (SOLA SPP)			5	4	5	5	5	5
Black knapweed (CENT NIG)	Y	FRPA	1	4	2	4	1	4
Blueweed (ECHI VUL)		WCA, FRPA	2	2	2	2	2	2
Bull thistle (CIRS VUL)	Y	CCA, FRPA	4	4	4	4	4	4
Burdock (ARCT SPP)		WCA, FRPA	4	4	4	4	4	4
Canada thistle (CIRS ARV)	Y	WCA, CCA, FRPA	4	4	4	4	4	4
Caraway (CARU CAR)			1	1	1	1	2	2
Chicory (CICH INT)			4	4	4	4	4	4
Common bugloss (ANCH OFF)		FRPA	1	1	1	1	2	1
Common comfrey (SYMP OFF)			4	4	4	4	4	4
Common tansy (TANA VUL)		WCA, FRPA	3	3	3	3	3	3
Curled dock (RUME CRI)			4	4	4	4	4	4



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Cypress spurge (EUPH CYP)			2	2	1	1	2	2
Dalmatian toadflax (LINA DAL)	Y	WCA, CCA, FRPA	4	4	4	4	4	4
Diffuse knapweed (CENT DIFF)	Y	WCA, CCA, FRPA	4	4	4	4	5	4
Eyebright (EUPH NEM)			5	5	5	5	5	5
Field bindweed (CONV ARV)			5	5	5	5	5	5
Field scabious (KNAU ARV)		FRPA	2	2	1	1	1	1
Hairy cat's ear (HYPO RAD)			5	5	5	5	5	5
Hawkweed spp. (HIER SPP) (see yellow hawkweeds)			4	4	4	4	4	4
Himalayan blackberry (RUBU ARM)		CCA	1	2	5	5	5	5
Hoary alyssum (BERT INC)		FRPA	5	4	1	2	1	2
Hoary cress (CARD DRA)		WCA, FRPA	5	1	1	1	1	2
Hound's tongue (CYNO OFF)	Y	WCA, CCA, FRPA	4	4	4	4	4	4
Knotweeds (FALL SPP)		WCA, CCA, FRPA	2	2	2	2	2	2
Lady's thumb (POLY PER)			5	5	5	5	5	5
Leafy spurge (EUPH ESU)	Y	WCA, CCA, FRPA	2	2	2	2	1	1
Marsh plume thistle (CIRS PALU)		FRPA	1	2	2	1	1	1
Meadow goat's beard (TRAG PRA) (<i>Tragopogon pratensis</i>)			4	4	4	4	1	1



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Meadow knapweed (CENT DEB)		WCA, FRPA	2	2	2	2	1	1
Mouse-ear hawkweed (HIER PIL)			5	PROV PROH list	5	PROV PROH list	1	PROV PROH list
Orange hawkweed (HIER AUR)		WCA, FRPA	4	4	4	4	5	5
Oxeye daisy (LEUC VUL)		FRPA	4	4	4	4	4	4
Perennial sow thistle (SONC ARV)		WCA	4	4	4	4	4	4
Policeman's helmet / Himalayan Balsam/Orchid (IMPA GLA)		CCA	2	2	2	2	2	2
Purple loosestrife (LYNT SAL)	Y	WCA, CCA, FRPA	2	2	2	1	1	1
Rush skeletonweed (CHON JUN)	Y	WCA, CCA, FRPA	2	2	1	1	1	1
Russian knapweed (ACRO REP)		FRPA	5	5	1	1	1	1
Scentless chamomile (MATR PER)	Y	WCA, CCA, FRPA	5	5	5	5	2	2
Scotch broom (CYTI SCO)		CCA, FRPA	2	2	1	1	1	1
Scotch thistle (ONOP ACA)		FRPA	2	2	2	1	1	1
Spotted knapweed (CENT BIE)	Y	WCA, CCA, FRPA	4	4	4	4	3	3
Squarrose knapweed (CENT VIR)			1	PROV PROH list	1	PROV PROH list	2	PROV PROH list
St. John's wort (HYPE PER)	Y	CCA, FRPA	4	4	4	4	5	5



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Sulphur cinquefoil (POTE REC)		WCA, FRPA	4	4	4	4	5	5
Tall Buttercup (RANU ACR)			5	5	5	5	5	5
Teasel (DIPS FUL)		FRPA	2	2	1	1	2	1
Wormwood (ARTE ABS) (Absinth)			1	2	1	1	5	5
Yellow flag-iris (IRI PSE)		WCA, CCA, FRPA	3	3	1	2	1	1
Yellow hawkweeds (HIER SPP) (including: king devil, meadow, polar, queen devil, spotted, tall, whiplash, yellow devil)		FRPA (meadow)	4	4	4	4	4	4
Yellow (common) toadflax (LINA VUL)		WCA, CCA, FRPA	4	4	4	4	4	4

Part 2: Proposed New Species to Priority Lists

Several new species that have been found within and/or adjacent to CSISS region, and/or are high priority in neighbouring jurisdictions are proposed to be added to CSISS priority list.

Species	Bio-control?	Relevant legislation ¹	Salmon Arm IPMA 2017	Revelstoke IPMA 2017	Golden IPMA 2017
Annual sow thistle (SONC OLE)/ Sowthistle spp. (SONC SPP)			4	4	4
Bachelor's button (CENT CYA)			5	5	5



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Black locust (ROBI PSE)			5	5	5
Brown Knapweed (CENT JAC)	Y?		5	5	5
Bur chervil (ANTH CAU)			1	1	1
Colt's Foot (TUS FAR) (Tussilago spp.)			1	1	1
Contain to gardens: - Butterfly bush (BUDD DAV) - English Ivy (HEDE HEL) - Goutweed (AEGO POD) - Japanese butterbur - Lamium/Yellow archangel (LAMI GAL) - Russian olive (ELAE ANG) - Common Periwinkle (VINC MIN) - Salt cedar/ Tamarisk (TAMA RAM) - Siberian elm (ULMU PUM)			3	3	3
Creeping buttercup (RANU REP)			5	5	5
Dame's rocket (HESP MAT)			5	5	5
Flat Peavine (LATH SYL) (<i>Lathyrus sylvestris</i>)			5	5	5
Fragrant water lily (NYMP ODO)			1	1	1
Garlic mustard (ALLI PET)			5	5	5
Giant hogweed (HERA MAN)			2	1	1
Greater celandine (CHEL MAJ)			5	5	5
Green foxtail / green bristlegrass (SETA VIR)			5	5	5
Knapweed species (CENT SPP)	Y		4	4	4
Meadow Buttercup (RANU ACR)			5	5	5



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Night-flowering catchfly (SILE NOC)			5	5	5
Poison hemlock (CONI MAC)			4	5	5
Puncturevine (TRIB TER)		FRPA	1	1	1
Queen anne's lace / wild carrot (DAUC CAR)			4	5	5
Short-fringed knapweed (CENT NIR)	Y?		4	4	2
Western Goat's Beard (TRAG DUB) <i>(Tragapogon dubius)</i>			4	4	4
Wild chervil (ANTH SYL)			2	2	1

Part 3: Proposed New Categories:

Provincially Prohibited Species

The purpose of this category is to separate regional EDRR species and provincial EDRR watchlist species to ensure that the provincial Ministry specialists are notified and EDRR provincial protocols are followed.



Provincial Prohibited EDRR WATCHLIST – Prohibited species for BC. Provincial government takes lead role in treatments. Report these species through Report-A-Weed app.

Black henbane* (HYOS NIG)	1+	ALL IPMAs
Common crupina* (CRUP VUL)	1+	ALL IPMAs
Common reed* (PHRA AUS)	1+	ALL IPMAs
Dyer's woad* (ISAT TIN)	1+	ALL IPMAs
Mouse-ear hawkweed* (HIER PIL)	1+	ALL IPMAs
Perennial pepperweed* (LEPI LAT)	1+	ALL IPMAs
Syrian beancaper* (ZYGO FAB)	1+	ALL IPMAs
Squarrose knapweed* (CENT VIR)	1+	ALL IPMAs
Velvet leaf* (ABUT THE)	1+	ALL IPMAs
Yellow starthistle* (CENT SOL)	1+	ALL IPMAs
* = not currently known in the CSISS region		

Unlisted Species List Category

There are some invasive plants that are unlisted due to their low priority in all IPMAs. They may be considered as priority '4' operationally as some land managers may still decide to treat.

UNLISTED - Lowest Priority all IPMAs (therefore not included in ranking, but some jurisdictions may still control - consider as priority 4)	Rank
Bladder Campion	6
Groundsel	6
Sheep sorrel (RUME ACE)	6



Mullein	6
White Cockle	6

2017 Operational Priorities

The table below describes the CSISS operational priorities for 2017 planning purposes.

2017 SURVEY PRIORITIES			
Priority 1, 2, 3 Species outside containment: Re-survey outdated sites and contact landowners regarding treatment (CSISS and CSRD letters)	Level 1: Survey ASAP and encourage treatment ASAP, follow up with landowners frequently	Level 2: Survey and encourage treatment, follow up with landowners frequently	Level 3 outside containment: Survey and encourage treatment, follow up with landowners
MoTI gravel pits	Survey all active sites annually - unless treatment contractors are already scheduled to survey and treat (JCP Crew?)		
MoTI roadsides	Survey all priority 1, 2,3 outside containment		



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Borders of CSISS region:road surveys	Survey border regions not yet surveyed or those 2013 and earlier
CSRD landfills/transfer stations	Survey all annually
CSRD properties (those that have not yet been surveyed)	Survey every 3-5 years
Review each IPMA comments beside proposed change for site specific to-do lists	See each IPMA excel tabs - "2017 To Do list"
Priority 5 Species	Survey where found to continue to build database knowledge.



Appendix A: Priority Species IAPP Data by 2013 Ranking and IPMA

Salmon Arm IPMA Priority Ranked IAPP Data

Note: Priority Ranked "0" is unlisted based on 2013 list, NWF: no weed found.

Priority Ranking 2013	0 "unlisted"			
Invasive Plant	Total Estimated Area (ha)	Total Number of Sites	Proposed Ranking 2017	To Do 2017 / Comments
Annual sow thistle (SONC OLE)	1.2841	7	4	
Bachelor's button (CENT CYA)	0.0001	1	5	
Bladder campion (SILE VUL)	13.3937	15	6	
Brown knapweed (CENT JAC)	0.53	3	5	
Bur chervil (ANTH CAU)	0	1	1	
Common periwinkle (VINC MIN)	0.0006	1	3	
Creeping buttercup (RANU REP)	0.0225	3	5	
Dame's rocket (HESP MAT)	2.0115	5	5	
English ivy (HEDE HEL)	0.001	1	3	
Flat pea / flat peavine (LATH SYL)	0.2815	10	5	
Giant hogweed (HERA MAN)	0	1	2	NWF in 2016 survey - re-survey 2017
Groundsel (SENE VUL)	0.0001	1	6	
Knapweed species (CENT SPP)	712.6454	162	6	
Meadow buttercup (RANU ACR)	0.1039	6	5	
Mullein (VERB THA)	52.6207	67	6	
Night-flowering catchfly (SILE NOC)	0.0001	1	5	
Poison hemlock (CONI MAC)	0.4676	3	4	
Puncturevine (TRIB TER)	0	1	1	
Queen anne's lace / wild carrot	0.124	5	4	



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(DAUC CAR)				
Russian olive (ELAE ANG)	0.0075	2	3	
Saltcedar / tamarisk (TAMA RAM)	0.0019	3	3	
Short-fringed knapweed (CENT NIR)	0.1001	3	4	
Sowthistle species (SONC SPP)	3.1478	14	4	
Western goat's-beard (TRAG DUB)	25.7489	46	4	
White cockle (LYCH ALB)	0.0054	13	6	
Wild chervil (ANTH SYL)	0.202	2	2	
Yellow archangel (LAMI GAL)	0.0021	2	3	
Grand Total	812.7025	379		

Priority Ranking 2013	1			
Invasive Plant	Total Estimated Area (ha)	Total Number of Sites	Proposed Ranking 2017	To Do 2017 / Comments
Black knapweed (CENT NIG)	2.0202	4	4	
Himalayan blackberry (RUBU ARM)	0.594	13	2	
Marsh plume thistle/Marsh thistle (CIRS PAL)	4.5377	28	2	Continue to follow up with forestry companies and MFLNRO
Wormwood (ARTE ABS)	0.0102	2	2	Survey - maybe more?
Grand Total	7.1621	47		

Priority Ranking 2013	2			
Invasive Plant	Total Estimated	Total Number of	Proposed Ranking	To Do 2017 / Comments



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	Area (ha)	Sites	2017	
Bighead knapweed (CENT MAC)	0.0005	3	same-2	
Blueweed (ECHI VUL)	9.2282	44	same-2	Review and re-survey all sites before 2013
Bohemian knotweed (FALL BOH)	0.6848	83	same-2	
Cypress spurge (EUPH CYP)	0.11	2	same-2	
Field scabious (KNAU ARV)	0.9	3	same-2	
Japanese knotweed (FALL JAP)	1.4782	27	same-2	
Leafy spurge (EUPH ESU)	198.1252	15	same-2	
Meadow knapweed (CENT DEB)	3.3075	26	same-2	
Policeman's helmet / himalayan balsam (IMPA GLA)	1.6813	27	same-2	
Purple loosestrife (LYTH SAL)	0.0593	12	same-2	
Rush skeletonweed (CHON JUN)	1.5003	37	same-2	
Scotch broom (CYTI SCO)	0.63	3	same-2	
Scotch thistle (ONOP ACA)	4.6796	9	same-2	
Teasel (DIPS FUL)	1.3543	10	same-2	
Grand Total	223.7392	301		

Priority Ranking 2013	3			
Invasive Plant	Total Estimated Area (ha)	Total Number of Sites	Proposed Ranking 2017	To Do 2017 / Comments
Common tansy (TANA VUL)	35.977	334	same-3	Review containment line
Yellow iris (IRIS PSE)	0.2274	14	same-3	
Grand Total	36.2044	348		



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Priority Ranking 2013	4			
Invasive Plant	Total Estimated Area (ha)	Total Number of Sites	Proposed Ranking 2017	To Do 2017 / Comments
Bull thistle (CIRS VUL)	780.9106	153	same-4	
Burdock species (ARCT SPP)	84.266	92	same-4	
Canada thistle (CIRS ARV)	107.3862	75	same-4	
Chicory (CICH INT)	24.1342	84	same-4	
Common comfrey (SYMP OFF)	0.0105	2	same-4	
Curled dock (RUME CRI)	0.0502	2	same-4	
Dalmatian toadflax (LINA DAL)	134.8284	58	same-4	
Diffuse knapweed (CENT DIF)	1856.0999	140	same-4	
Hawkweed species (HIER SPP)	28.8852	235	same-4	
Hound's-tongue (CYNO OFF)	2392.1924	220	same-4	
Meadow hawkweed (HIER CAE)	1.7804	14	same-4	
Orange hawkweed (HIER AUR)	50.4924	221	same-4	
Oxeye daisy (LEUC VUL)	111.9021	182	same-4	
Perennial sow thistle (SONC ARV)	1.027	5	same-4	
Polar hawkweed (HIER ATR)	3.9	1	same-4	
Queen devil hawkweed (HIER PRE)	11.183	32	same-4	
Spotted knapweed (CENT BIE)	3095.4432	713	same-4	
St. John's wort/Saint John's wort/ Goatweed (HYPE PER)	50.2444	73	same-4	
Sulphur cinquefoil (POTE REC)	1434.0355	682	same-4	
Tall hawkweed (HIER OID)	33.501	5	same-4	
Whiplash hawkweed (HIER FLA)	37.6151	16	same-4	
Yellow hawkweed (HIER PRA)	22.6678	69	same-4	



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Yellow/common toadflax (LINA VUL)	3.2578	19	same-4	
Grand Total	10265.8133	3093		

Priority Ranking 2013	5			
Invasive Plant	Total Estimated Area (ha)	Total Number of Sites	Proposed Ranking 2017	To Do 2017 / Comments
Eyebright (EUPH NEM)	0.0156	7	same-5	
Field bindweed (CONV ARV)	0.0176	3	same-5	
Hoary alyssum (BERT INC)	49.4665	196	4	
Lady's-thumb (POLY PER)	0.0001	1	same-5	
Nightshade (SOLA SPP)	3.9828	43	4	
Russian knapweed (ACRO REP)	19.0366	5	same-5	
Scentless chamomile (MATR PER)	0.0525	7	same-5	
Grand Total	72.5717	262		

Revelstoke IPMA Priority Ranked IAPP Data

Note: Priority Ranked "0" is unlisted based on 2013 list

2013 Priority Ranking	0			
Invasive Plant	Total Estimated Area (ha)	Total Number of Sites	Proposed Ranking 2017	To Do 2017 / Comments
Annual sow thistle (SONC OLE)	0.2061	3	4	
Black locust (ROBI PSE)	0.006	2	5	



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Bladder campion (SILE VUL)	0.1015	3	6	
Brown knapweed (CENT JAC)	0.0012	1	5	
Bur chervil (ANTH CAU)	0.0002	1	1	
Creeping buttercup (RANU REP)	0.005	1	5	
Flat pea / flat peavine (LATH SYL)	0.1007	7	5	
Greater celandine (CHEL MAJ)	0.0001	1	5	
Green foxtail / green bristlegrass (SETA VIR)	0.0025	1	5	
Groundsel (SENE VUL)	4.5	2	6	
Meadow buttercup (RANU ACR)	0.0712	2	5	
Mullein (VERB THA)	7.5383	16	6	
Sowthistle species (SONC SPP)	0.408	3	4	Listed with Annual Sowthistle
Western goat's-beard (TRAG DUB)	0.0001	1	4	
White cockle (LYCH ALB)	1.0017	3	6	
Wild chervil (ANTH SYL)	0.303	2	2	
Grand Total	14.1449	42		

2013 Priority Ranking	1			
Invasive Plant	Total Estimated Area (ha)	Total Number of Sites	Proposed Ranking 2017	To Do 2017 / Comments
Hoary alyssum (BERT INC)	0.203	3	2	
Scotch broom (CYTI SCO)	0	1	1-same	
Yellow iris (IRIS PSE)	0.0002	1	2	One site, re-survey and speak with landowner.
Grand Total	0.2032	5		



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2013 Priority Ranking	2			
Invasive Plant	Total Estimated Area (ha)	Total Number of Sites	Proposed Ranking 2017	To Do 2017 / Comments
Black knapweed (CENT NIG)	0.002	4	4	
Blueweed (ECHI VUL)	2.2105	12	2-same	
Bohemian knotweed (FALL BOH)	0.5766	99	2-same	
Giant knotweed (FALL SAC)	0.0225	1	2-same	
Japanese knotweed (FALL JAP)	1.3374	19	2-same	
Leafy spurge (EUPH ESU)	0.6045	9	2-same	
Meadow knapweed (CENT DEB)	0.4	1	2-same	
Policeman's helmet / himalayan balsam (IMPA GLA)	1.7365	38	2-same	
Grand Total	6.49	182		

2013 Priority Ranking	3			
Invasive Plant	Total Estimated Area (ha)	Total Number of Sites	Proposed Ranking 2017	To Do 2017 / Comments
Common tansy (TANA VUL)	804.2963	187	3-same	Review containment line
Grand Total	804.2963	187		

2013 Priority Ranking	4			



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Invasive Plant	Total Estimated Area (ha)	Total Number of Sites	Proposed Ranking 2017	To Do 2017 / Comments
Bull thistle (CIRS VUL)	0.7331	32	4-same	
Burdock species (ARCT SPP)	0.6272	28	4-same	
Canada thistle (CIRS ARV)	13.1726	89	4-same	
Chicory (CICH INT)	7.3677	16	4-same	
Curled dock (RUME CRI)	0.4025	2	4-same	
Dalmatian toadflax (LINA DAL)	0.511	3	4-same	
Diffuse knapweed (CENT DIF)	-7.8896	17	4-same	Negative area numbers - MFLNRO old data - can they clean up?
Hawkweed species (HIER SPP)	32.4871	62	4-same	
King devil hawkweed (HIER FLO)	2.25	12	4-same	
Meadow hawkweed (HIER CAE)	0.7735	9	4-same	
Orange hawkweed (HIER AUR)	20.6355	133	4-same	
Oxeye daisy (LEUC VUL)	54.1461	199	4-same	
Perennial sow thistle (SONC ARV)	2.1591	71	4-same	
Queen devil hawkweed (HIER PRE)	1.2225	13	4-same	
Spotted hawkweed (HIER MAC)	0.001	1	4-same	
Spotted knapweed (CENT BIE)	53.562	222	4-same	
St. John's wort/Saint John's wort/ Goatweed (HYPE PER)	28.8754	44	4-same	
Sulphur cinquefoil (POTE REC)	0.0154	3	4-same	
Tall hawkweed (HIER OID)	0.16	4	4-same	
Whiplash hawkweed (HIER FLA)	15.1306	37	4-same	
Yellow devil hawkweed (HIER GLO)	0.3805	9	4-same	
Yellow hawkweed (HIER PRA)	12.4847	149	4-same	
Yellow/common toadflax (LINA VUL)	0.0025	1	4-same	



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Grand Total	239.6104	1157		
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2013 Priority Ranking	5			
Invasive Plant	Total Estimated Area (ha)	Total Number of Sites	Proposed Ranking 2017	To Do 2017 / Comments
Eyebright (EUPH NEM)	0.032	4	5-same	
Field bindweed (CONV ARV)	0.02	2	5-same	
Hairy cat's-ear (HYPO RAD)	0.5004	3	5-same	
Himalayan blackberry (RUBU ARM)	0.1556	6	5-same	
Nightshade (SOLA SPP)	0.002	2	5-same	
Scentsless chamomile (MATR PER)	0.0001	1	5-same	
Grand Total	0.7101	18		

Golden IPMA Priority Ranked IAPP Data

2013 Priority Ranking	0			
Invasive Plant	Total Estimated Area (ha)	Total Number of Sites	Proposed Ranking 2017	To Do 2017 / Comments
Annual sow thistle (SONC OLE)	0.0003	1	4	
Bladder campion (SILE VUL)	2.632	23	6	
Common periwinkle (VINC MIN)	0.001	1	3	
Flat pea / flat peavine (LATH SYL)	0.2	1	5	



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Goutweed / bishop's weed (AEGO POD)	0.5	1	6	
Green foxtail / green bristlegrass (SETA VIR)	0.005	1	5	Re-survey and treat 2017
Groundsel (SENE VUL)	0.1	1	6	
Knapweed species (CENT SPP)	0.733	4	4	
Meadow buttercup (RANU ACR)	0.0016	6	5	
Mullein (VERB THA)	29.0643	51	6	
Perennial pepperweed (LEPI LAT)	0.4	1	1+	Re-survey - may be mis-ID. Treated 2015 by Wildsight.
Queen anne's lace / wild carrot (DAUC CAR)	0.0015	1	5	
Sheep sorrel (RUME ACE)	0.341	3	6	
Short-fringed knapweed (CENT NIR)	0.016	1	2	Re-survey and treat 2017?
Sowthistle species (SONC SPP)	3.647	24	4	
Western goat's-beard (TRAG DUB)	23.6254	65	4	
Grand Total	61.2703	190		

2013 Priority Ranking	1			
Invasive Plant	Total Estimated Area (ha)	Total Number of Sites	Proposed Ranking 2017	To Do 2017 / Comments
Bighead knapweed (CENT MAC)	0.0002	1	2	re-survey and treat 2017
Hoary alyssum (BERT INC)	1	1	2	one isolated plant, chem treated, re-survey 2017



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Hoary cress (CARD DRA)	0.005	1	2	re-survey/ treat in 2017, treated in 2014.
Meadow goats-beard (TRAG PRA)	0.0034	3	1-same	Mis-ID - actually western goats beard.
Meadow knapweed (CENT DEB)	0.0001	2	1-same	One site was mis-ID. Check the other. Mis ID as short fringed, re-survey other site.
Scotch thistle (ONOP ACA)	0.0054	2	1-same	Was mech removed 2016 by Wildsight. Not sure of ID? Re-survey 2017
Grand Total	1.014	8		

2013 Priority Ranking	2			
Invasive Plant	Total Estimated Area (ha)	Total Number of Sites	Proposed Ranking 2017	To Do 2017 / Comments
Baby's breath (GYPS PAN)	4.853	13	2-same	
Blueweed (ECHI VUL)	0.0211	4	2-same	
Bohemian knotweed (FALL BOH)	0.0022	5	2-same	
Caraway (CARU CAR)	0.0002	1	2-same	
Cypress spurge (EUPH CYP)	0.0105	3	2-same	
Policeman's helmet / himalayan balsam (IMPA GLA)	0.011	3	2-same	
Scentless chamomile (MATR PER)	0.001	2	2-same	
Grand Total	4.899	31		

2013 Priority Ranking	3			



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Invasive Plant	Total Estimated Area (ha)	Total Number of Sites	Proposed Ranking 2017	To Do 2017 / Comments
Common tansy (TANA VUL)	16.2245	114	3-same	
Spotted knapweed (CENT BIE)	79.0455	336	3-same	Adjust containment line with MFLNRO and MOTI based on 2016 road surveys
Grand Total	95.27	450		

2013 Priority Ranking	4			
Invasive Plant	Total Estimated Area (ha)	Total Number of Sites	Proposed Ranking 2017	To Do 2017 / Comments
Bull thistle (CIRS VUL)	2.5181	30	4-same	
Burdock species (ARCT SPP)	33.2421	99	4-same	
Canada thistle (CIRS ARV)	62.9535	101	4-same	
Chicory (CICH INT)	0.8019	9	4-same	
Curled dock (RUME CRI)	0.0002	1	4-same	
Dalmatian toadflax (LINA DAL)	-0.8454	9	4-same	
Hawkweed species (HIER SPP)	0.7637	9	4-same	
Hound's-tongue (CYNO OFF)	6.491	22	4-same	
King devil hawkweed (HIER FLO)	0.2055	3	4-same	
Meadow hawkweed (HIER CAE)	0.01	1	4-same	
Oxeye daisy (LEUC VUL)	13.1037	77	4-same	



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Perennial sow thistle (SONC ARV)	0.0535	4	4-same	
Queen devil hawkweed (HIER PRE)	0.5183	7	4-same	
Tall hawkweed (HIER OID)	0.002	1	4-same	
Whiplash hawkweed (HIER FLA)	0.0025	2	4-same	
Yellow devil hawkweed (HIER GLO)	0.5	1	4-same	
Yellow hawkweed (HIER PRA)	1.8054	15	4-same	
Yellow/common toadflax (LINA VUL)	8.7378	73	4-same	
Grand Total	130.8639	466		

2013 Priority Ranking	5			
Invasive Plant	Total Estimated Area (ha)	Total Number of Sites	Proposed Ranking 2017	To Do 2017 / Comments
Diffuse knapweed (CENT DIF)	4.8534	21	4	
Eyebright (EUPH NEM)	0.0714	7	5-same	
Orange hawkweed (HIER AUR)	0.698	18	5-same	
St. John's wort/Saint John's wort/ Goatweed (HYPE PER)	0.1128	5	5-same	
Sulphur cinquefoil (POTE REC)	0.462	5	5-same	
Wormwood (ARTE ABS)	1.3158	14	5-same	
Grand Total	7.5134	70		