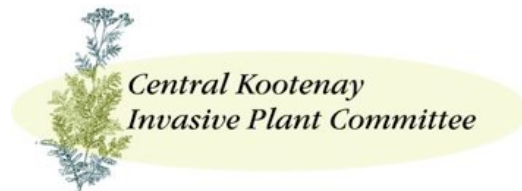


Central Kootenay Invasive Plant Committee (CKIPC) 2010 Summary Report



Report Prepared by:



Crystal Klym, A.Ag., Coordinator

Jennifer Vogel, A.Ag., Assistant Coordinator

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Executive Summary

The Central Kootenay Invasive Plant Committee (CKIPC) was formally established as a non-profit society in February 2005 with the goals of education and awareness, preventing new species introduction, promoting coordinated and collaborative management, working toward control/containment of highly invasive plants, providing a conduit of information, and developing and maintaining an inventory of invasive plant species. Currently, CKIPC pursues these goals by focusing on four program areas: education and awareness, coordination, limited on-the-ground treatment, and inventory.

With support from the Invasive Plant Council of BC's Hot Spot and SWAT crews and the Kaslo Job Opportunity Program crew, extensive multi-species inventories were completed throughout the CKIPC region for a diversity of jurisdictions including Ministry of Transportation and Infrastructure, Terasen Gas, Regional District of Kootenay Boundary, Ministry of Natural Resource Operations (formally Ministry of Forests and Range), BC Parks, and BC Hydro. Target species included those listed in the Central Kootenay Invasive Plant Management Strategy as well as priority new invaders including, but not limited to, giant hogweed and tansy ragwort. In 2010, one infestation of giant hogweed and one infestation of tansy ragwort were reported, inventoried and controlled. These sites will be monitored in 2011 to ensure that any regeneration is effectively controlled. Inventories and treatments conducted in the Regional District of Kootenay Boundary were coordinated with the Boundary Weed Management Committee.

The majority of CKIPC's involvement in on-the-ground treatments (mechanical and chemical control) was coordinating crews on behalf of partner organizations including the Regional District of Kootenay Boundary, Terasen Gas, Ministry of Transportation and Infrastructure, BC Hydro, and the Invasive Plant Council of BC. CKIPC collected and shipped *Larinus obtusus* and *Cyphocleonus achates* biological control agents for the Ministry of Natural Resource Operations' biological control program.

All CKIPC programs and projects were managed by the CKIPC Coordinator with guidance from the CKIPC Board of Directors and support from the Assistant Coordinator and qualified contractors, as required. Through the Invasive Plant Council of BC's Hot Spots program CKIPC was fortunate to receive support via a Regional Technical Support Worker and Outreach Specialists. CKIPC was further supported by a free and open membership policy with over 350 members to date.

CKIPC's education and awareness program included the delivery of Invasive Plant Council of BC's "Stop the Spread" campaign, which included a number of workshops and presentations, the 2010 Annual General Meeting and Speaker Series, and Annual Field Tour. CKIPC hosted its information booth at a number of high profile events across the region and directly reached 125 people. A number of outreach materials were produced, including a youth education program, articles, press releases, and an updated CKIPC E-Newsletter. Target audiences included garden clubs, nurseries, outdoor recreation and hunting groups, youth, private landowners, and others. With support from the Columbia Basin Trust, CKIPC also delivered 10 Communities Pulling Together events and reached 261 students through the Youth Pulling Together program.

Financially, CKIPC delivered 2010 programs and projects on time and within budget. For 2011, CKIPC aims to continue expanding its on-the-ground program, delivering high-quality education and outreach programs, and fostering coordination and collaboration among landowners, land managers, and others involved in invasive plant management. Overall, 2010 was a successful year for CKIPC thanks to the generous support and funding from a diversity of sponsors and members.

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Introduction

The Central Kootenay Invasive Plant Committee¹ (CKIPC) was incorporated as a non-profit society in February 2005 with the following goals:

- To raise awareness and educate the public, government agencies, and other land managers about invasive plants and their impacts in the area;
- To prevent the further introduction and spread of invasive plants through education and awareness, early detection and control, and coordinated integrated weed management efforts;
- To promote coordinated and collaborative management of invasive plants between agencies and land occupiers;
- To work toward the control/containment of highly invasive non-native plant species;
- To provide a conduit for information and a source of expertise on invasive plants; and
- To develop and maintain a comprehensive inventory of invasive plant species within the CKIPC area.

Currently, CKIPC pursues these goals by focusing on four program areas: 1) education and awareness, 2) coordination, 3) on-the-ground treatment, and 4) inventory.

CKIPC's intention is to move in the direction of coordinating and delivering increased on-the-ground treatment during the next few years. CKIPC's activities focus on the Regional District of Central Kootenay geographic area, and Areas A and B of the Regional District of Kootenay Boundary. Activities that occur within Regional District of Kootenay Boundary are coordinated with the Boundary Weed Management Committee. This report summarizes CKIPC's activities from January to December 2010.

Inventory and Mapping

Similar to 2009, the strategy for inventory in 2010 was to work toward completion of multi-species inventories where there were still gaps in the region. Provincial Invasive Alien Plant Program inventory standards were used and a Site and Invasive Plant Inventory Record was completed for each site. All inventory data has been (or will be by January 15th) entered into the Invasive Alien Plant Program. Detailed inventory procedures were recorded by the Invasive Plant Council of BC Hot Spots crew and provided in a final summary report, which is available upon request.

Early Detection and Rapid Response (EDRR)

Another component of CKIPC's inventory strategy is to follow up on reports of rare or isolated patches of invasive plants, such as giant hogweed, blueweed, plumeless thistle, and Scotch thistle. Where feasible, isolated infestations of EDRR species are inventoried, removed and monitored.

¹ Referred to as "CKIPC" for remaining sections of this report.

In 2010, the following EDRR activities were accomplished:

- One isolated infestation of giant hogweed was reported, identified, inventoried, and controlled near Hills. Landowners were consulted and the site will be monitored in 2011.
- One plant of tansy ragwort was reported, identified, inventoried, and controlled in Kaslo. The landowner was consulted and the site will be monitored in 2011.
- One isolated infestation of Scotch thistle was reported in Harrop. CKIPC contacted the landowner and provided information on the species. A site visit has been planned for early 2011.

Terasen Gas

This was the first year that the CKIPC coordinated and delivered the invasive plant program along the Southern Crossing Pipeline right-of-way from Yahk to the Santa Rosa Summit west of Big Sheep Creek on behalf of Terasen Gas. The program was managed by Crystal Klym, CKIPC Coordinator and coordinated by Jennifer Vogel, CKIPC Assistant Coordinator. This program was previously coordinated by John Gwilliam for three years (2007-2009), and has transitioned smoothly to the CKIPC.

In 2010, invasive plant inventory and management activities focused on areas where there were landowner concerns and where the Terasen Gas right-of-way represented important wildlife habitat or was found in close proximity to sensitive wildlife habitat potentially impacted by invasive plants travelling off the right-of-way. CKIPC's invasive plant priority list and strategic plan for the central Kootenay was followed when planning treatment activities; areas targeted for invasive plant inventory were established in consultation with Catherine MacRae, Invasive Plant Specialist, Ministry of Natural Resource Operations (formally Ministry of Forests and Range).

CKIPC completed several extensive invasive plant inventories on Terasen Gas right-of-ways in 2010. Areas of extensive inventory occurred on the Southern Crossing Pipeline from Fort Shepherd Conservancy Area to Casino Road, from Creston to Kootenay Pass and from Nine Mile Road to Columbia Gardens Road. In addition, the Southern Crossing Pipeline running adjacent to the Old Cascade Hwy was also inventoried from Hwy 22 to Seven Summits, and sections of the right-of-way were inventoried in the Pend d'Oreille.

Regional District of Kootenay Boundary (Area A)

This was the first year that the CKIPC coordinated the Regional District of Kootenay Boundary Area A Invasive Plant Program. The program was managed by Crystal Klym, CKIPC Coordinator and coordinated by Jennifer Vogel, CKIPC Assistant Coordinator. Program coordination was completed in collaboration with Boundary Weed Management Committee². During the 2010 season, Jennifer coordinated chemical and manual treatments, conducted inventories and efficacy checks, and provided information and educational resources to landowners and the general public. In addition, Jennifer will input all relevant data into the Invasive Alien Plant Program by January 15th, 2011 and create reports for the Regional

² Regional District of Kootenay Boundary will be submitting an Invasive Plant Grant Program report for 2010.

District of Kootenay Boundary and associated funding partners. This program was previously coordinated by John Gwilliam for three years (2007-2009), and has transitioned smoothly to the CKIPC.

CKIPC completed thirty-three extensive invasive plant inventories in 2010, to ascertain priority areas and to provide data for the spring 2011 strategic planning process. Many of these inventories were carried out on private lands, and on various funding partner lands, including Terasen Gas, BC Hydro, and Ministry of Transportation and Infrastructure.

Ministry of Transportation and Infrastructure

Jennifer Vogel coordinated Ministry of Transportation and Infrastructure activities throughout the Regional District of Kootenay Boundary (Areas A and B). Roads within the Regional District of Kootenay Boundary that were chemically³ and/or manually treated, included Macleod Road, Seven Mile Road Hwy 22A, Columbia Gardens Road, Station Road, Waneta-Nelway Road, Handley Road, Hwy 3B and Camel and Hutchison Pits. Target species included Japanese knotweed, hoary alyssum, common tansy, Himalayan balsam, yellow/orange hawkweed and spotted /diffuse knapweed. Incidental species such as sulphur cinquefoil, ox-eye daisy and St. Johns wort were also treated if they were growing with target species.

Several new infestations of Himalayan balsam were identified at illegal dump sites along the Old Cascade Hwy and along Drakes Roads south of Rossland. These illegal dump sites are being used regularly by local residents to dump garden waste and other sundries. A local business, Record Ridge Riding, has posted “No Dumping” signs and has been vigilant about letting residents know that it is illegal to dump garden waste in these locations.



Figure 1: Old Cascade Hwy, Illegal Dump Site, August 2010 (J. Vogel)

Additional inventories were conducted under the Invasive Plant Council of BC’s Hot Spots program, which will be discussed in upcoming sections of this report.

³ Regional District of Kootenay Boundary will be submitting an Invasive Plant Grant Program report for 2010, which will detail chemical treatments conducted on transportation corridors.

BC Hydro

The right-of-way past the Pend d'Oreille Recreation Area was inventoried and showed that invasive plants were in low numbers relative to other right-of-ways in the area with the exception of St. Johns wort, which has exploded in the last few years and is of great concern to local ranchers. Containment of this species in the Pend d'Oreille will be discussed during strategic planning in spring 2011. Additional sites along the right-of-way in the Pend d'Oreille area were inventoried by CKIPC in the fall of 2010. This was completed in concert with inventories along Forest Service Roads and the Terasen Gas right-of-way.

Hot Spots and SWAT Crews

Invasive Plant Council of BC Hot Spots and SWAT crews conducted extensive inventory of both terrestrial and aquatic species throughout the central Kootenays on a diversity of jurisdictions including Ministry of Natural Resource Operations, Ministry of Transportation and Infrastructure, BC Parks, utilities (Terasen Gas, BC Hydro, and Fortis BC), and the Creston Valley Wildlife Management Area. The Hot Spots crew consisted of five people and the Aquatics SWAT crew consisted of two people.

Hot Spots Crew

Target species for the Hot Spots crew included mouse-ear hawkweed, hoary alyssum, blueweed, teasel, Himalayan balsam, plumeless thistle, hound's tongue, greater celandine, common tansy, Scotch broom, purple loosestrife, blueweed, coltsfoot, rush skeletonweed, black locust, yellow flag iris, giant hogweed, and Himalayan blackberry. Yellow and orange hawkweed, goat's beard, spotted knapweed, hawk's beard, oxeye daisy, sulphur cinquefoil, and scentless chamomile were noted as incidentals, where appropriate. Inventories focused on transportation corridors and main Forest Service Roads throughout central Kootenay communities including Nelson, Castlegar, Slocan City, Creston, Kaslo, Trail, Rosland, Fruitvale, Salmo, Crescent Valley, Balfour, Meadow Creek, Nakusp, Hills, Harrop-Proctor, Fauquier, Blewett, Ymir, Montrose, Deer Park, Pass Creek, and Krestova. Areas where no target invasive plants were found were also recorded and will be monitored in future years.

Aquatics SWAT Crew

These inventories expanded on 2009 activities and included high-use access points along the Kootenay-Columbia River System, Wilson Lake, Slocan Lake, and Kootenay Lake as well as high-use areas in Nancy Green Provincial Park, Kokanee Creek Provincial Park, and Box Lake Forestry Recreation Site. The target species was Eurasian watermilfoil; however, the crew was on alert for other priority aquatic invasive species including Brazilian elodea, hydrilla, parrotfeather, didymo, Japanese wireweed, curlyleaf pondweed, and freshwater mussels (zebra and quagga). The overall purpose of this extensive inventory project was to determine the extent of Eurasian watermilfoil in the central Kootenays. In total 152 sites were surveyed and based on survey results it was concluded that Eurasian watermilfoil was well established in central Kootenay river and lake systems.

Kaslo Job Opportunities Program Crew

An invasive plant Job Opportunities Program was delivered in Kaslo, which expanded on activities completed under a similar program in 2009. CKIPC provided expertise and support to the crew supervisor and program manager in 2010. The Kaslo Job Opportunities Program crew expanded on roadside surveys completed in 2009, and completed additional inventories throughout Area D. In total,

92 new target species sites were inventoried and entered into the Invasive Alien Plant Program including 57 common tansy, 1 hoary alyssum, 3 Himalayan balsam, 4 Scotch broom, 16 coltsfoot, and 3 Himalayan blackberry. No new blueweed sites were found. In 2010, the Kaslo Job Opportunities Program crew inventoried 6.23 hectares of target invasive plants, and 412.8 kilometers of high priority Forest Service Roads.

On-the-Ground Treatments

The majority of CKIPC’s involvement in on-the-ground treatments was coordinating crews on behalf of the Regional District of Kootenay Boundary and the Invasive Plant Council of BC as well as conducting inventories. (Table 9) On-the-ground operations are expected to increase in 2011 as CKIPC continues to expand its operational program.

Table 1: CKIPC on-the-Ground Treatment and Expenditure Summary by Land Class (Report for 2010)

Land Class	Chemical Treatments ⁴		Mechanical Treatments ⁵	
	Area (ha)	Cost	Area (ha)	Cost
<i>E.g.: Crown land tenure, utility corridors, transportation rights-of-ways, parks, private land</i>				
Crown Land	0	\$0	1.0	\$350
Utility Corridors (Terasen Gas, BC Hydro, Fortis BC)	0	\$0	2.2	\$2,000
Transportation	0	\$0	2.0	\$700
BC Parks	0	\$0	2.0	\$700
Private Land (Teck Metals Ltd.)	0	\$0	4.0	\$700
Municipal			1.008	\$1,050
Totals	0	\$0	14.208	\$5,500

Terasen Gas

Kootenay Weed Control completed chemical treatment on the Terasen Gas right-of-way west of Kootenay Pass. The eastern portion of the right-of-way was not treated mechanically or chemically in 2010; however, this portion of the Southern Crossing Pipeline was thoroughly inventoried and priority areas for treatment in 2011 were identified. In the winter and spring of 2011 a gap analysis will be conducted and a strategic work plan will be developed to jointly determine priority areas and ensure timely rollout of both inventory and treatment activities.

Eleven sites were treated with herbicides and 10 sites were manually treated in the general vicinity of Sunshine FSR and Nine Mile Road near Fruitvale, Santa Rosa and Swehaw Forest Service Roads west of Big Sheep Creek, Tiger Creek near Rossland, adjacent to Hwy 3B between Warfield and Rossland, near the junction of Highway 22A and lower Columbia Gardens Road, and Hutchison Road off Columbia

⁴ Regional District of Kootenay Boundary will be reporting on chemical and mechanical treatments.

⁵ Isolated patches of invasive plants were mechanically treated during inventories, which was the majority of mechanical treatments conducted in 2010. Therefore, mechanical treatment costs are also reflected in inventory costs (Table 9).

Gardens Road. In addition, Hutchison pit and Camel pit were treated chemically and manually. Target species included fuller's teasel, hoary alyssum, common tansy, and spotted and diffuse knapweed. Incidental species such as sulphur cinquefoil, ox-eye daisy and St. Johns wort were also treated if they were growing with target species.

One release of *Mogulones cruciger* occurred at the Hutchison pit near Fruitvale; these biocontrol agents are used to manage hound's tongue. An initial release of 150 *Cyphocleonus achates* weevils was conducted along the right-of-way adjacent to the BC Hydro transmission line and Crackerjack Forest Service Road just east of Creston. These weevils are used to manage spotted knapweed, which is found extensively in this area. Additional *C. achates* were released along the BC Hydro right-of-way adjacent to the Terasen Gas right-of-way; however, more releases of both *C. achates* and *Larinus* spp are recommended in 2011 due to the size and extent of spotted knapweed along this section (Creston to Yahk) of the Terasen Gas right-of-way.

Regional District of Kootenay Boundary (Area A)

The chemical portion of the Regional District of Kootenay Boundary Invasive Plant Program ran smoothly⁶. Kootenay Weed Control from Castlegar carried out the chemical program very professionally, particularly in the areas of record keeping and herbicide application. Efficiencies in travel time were realized due to cooperation with Terasen Gas, BC Hydro and Ministry of Transportation and Infrastructure invasive plant treatment programs.

In 2010, Kootenay Weed Control treated 22 properties along with 15.32 ha of hoary alyssum, 13.13 ha of spotted knapweed, 1.28 ha of sulphur cinquefoil, 1.55 ha of yellow hawkweed, 1.32 of hoary cress, 0.14 ha of Canada thistle, and 0.20 ha of common tansy. All landowners contacted were pleased with the timing of treatments and the professionalism of Kootenay Weed Control. Treatment options for hoary cress will be re-evaluated in the spring of 2011. While undertaking efficacy monitoring at the various sites, isolated, individual invasive plants missed by Kootenay Weed Control were removed manually. All manually treated weeds were bagged and deposited in the Trail landfill.

BC Hydro

Jennifer Vogel coordinated BC Hydro invasive plant management activities throughout the Regional District of Kootenay Boundary Areas A and B. In 2010, the Pend d'Oreille Valley 500kV right-of-way near Handley Road and Nine Mile creek west of Selkirk Substation was treated. The area near Blizzard Mountain, Waneta was treated extensively to decrease spread of invasive plants into the adjacent ranching lands.

Ministry of Natural Resource Operations

CKIPC collected 5089 (23 releases) *Larinus obtusus* weevils and 5132 (49 releases) *Cyphocleonus achates* weevils in the summer of 2010. Releases of *L. obtusus* and *C. achates* were shipped to Ministries and regional committees across the province including Boundary, Vancouver Island, Kamloops, Central Okanagan, South Okanagan, Columbia-Shuswap, and Thompson. A couple of *C. achates* releases were

⁶ Regional District of Kootenay Boundary will be reporting on chemical treatments.

re-distributed to Creston along highly infested (spotted knapweed) BC Hydro and Terasen Gas rights-of-ways.

CKIPC also re-measured three knapweed density plot transects that were established in 1994 by the BC Forest Service to monitor the effectiveness of biological control agents on spotted knapweed, and to observe and record the change in invasive plant composition, density and height over time. Results are currently being analyzed. It's recommended that these plots be measured again in 2014-15.

IPCBC Hot Spots and SWAT Crews

Invasive Plant Council of BC Hot Spots and Terrestrial SWAT crews conducted extensive mechanical control of terrestrial invasive species throughout the central Kootenays on a diversity of jurisdictions including Ministry of Natural Resource Operations (formally Ministry of Forests and Range), Ministry of Transportation and Infrastructure, BC Parks, utilities (Terasen Gas, BC Hydro, and Fortis BC), and the Creston Valley Wildlife Management Area.

Hot Spots Crew

Target species for mechanical control varied by site but included those priority species identified for inventory activities (see Inventory and Mapping section). In total, 11.8 hectares were mechanically treated on priority sites throughout the central Kootenays (Table 2).

Table 2: Summary of mechanical control by agency/jurisdiction (Hot Spots crew)

Agency/Jurisdiction	Total proportion of <u>time</u> spent in each jurisdiction (%)	Total number of <u>hectares</u> treated in each jurisdiction
Ministry of Transportation and Infrastructure	30	3.8337
BC Parks	19	2.9000
Creston Valley Wildlife Management Area	5	2.6000
Ministry of Natural Resource Operations	39	2.3451
BC Hydro	1	0.0801
Fortis BC	4	0.0410
Terasen Gas	1	0.0120
TOTAL TREATED		11.8119

Terrestrial SWAT Crew

This four-week crew focused on Himalayan blackberry infestations in Kokanee Creek Provincial Park and Syringa Provincial Park. In total, 36 sites and 12.5 hectares were mechanically treated.



Figure 2: Himalayan blackberry impacting recreation values by impeding trail access at Kokanee Creek Provincial Park in fall 2010 (T. Anderson)

Kaslo Job Opportunities Program Crew

In addition to inventory activities, the Kaslo Job Opportunities Program crew mechanically treated 446 sites including 391 common tansy, 17 hoary alyssum, 5 Himalayan balsam, 12 blueweed, 30 Scotch broom, 3 coltsfoot, and 4 Himalayan blackberry. In total, 10.88 hectares of target invasive plants were treated in Area D.

Administration and Coordination

As of December 2010, CKIPC's Board of Directors include:

- Tom Bradley, Slocan Integral Forestry Co-Operative & West Kootenay Woodlot Association (President);
- Catherine MacRae, Ministry of Natural Resource Operations (Vice-President);
- Terry Anderson, Ministry of Natural Resource Operations (Treasurer);

- Rob Davidson, Creston Valley Beef Growers Association;
- Allan Freeborn, Kootenay Weed Control;
- Carol Bell, Regional District of Central Kootenay (Alternate: Hillary Elliott);
- Valerie Huff, HER Consulting;
- David Caswell, Regional District of Kootenay Boundary;
- Laurie Carr, Ecological Consultant; and
- Darrell Smith, Ministry of Agriculture.

CKIPC welcomed Crystal Klym in spring 2010 as the CKIPC Coordinator. Jennifer Vogel, Assistant Coordinator, was contracted to coordinate the Regional District of Kootenay Boundary Area A Invasive Plant Program and the Terasen Gas Program in 2010, and will continue to coordinate these programs and provide other assistance to CKIPC in 2011. Juliet Craig, CKIPC's former Coordinator, and John Gwilliam, CKIPC's former President, provided valuable advice and support through 2010.

Through the Invasive Plant Council of BC's Hot Spots Program, CKIPC was fortunate to receive technical support via a Regional Technical Support worker Karen Schening. Karen brought a wealth of knowledge and experience to the position and enabled CKIPC to draft a comprehensive 2011 work plan, which will be collaboratively reviewed and updated in February 2011 at a CKIPC land managers' meeting.

CKIPC currently has a free and open membership policy with over 350 members to date. Any person who wishes to join CKIPC needs to provide their email address to the CKIPC Coordinator so that they are added to the CKIPC membership list-serv. Members receive E-Newsletters, press releases, notification of upcoming events, and other "weedy" tidbits via the CKIPC list-serv. CKIPC aims to update its membership contact list in 2011 and continue to improve communications.

In 2009, CKIPC adopted Simply Accounting to record committee transactions. This tool was used in 2010 and will continue to be used well into the future. Support from experienced bookkeeper Carol Hamm, and CKIPC Director Darrell Smith ensured that CKIPC's books were maintained as per General Accepted Accounting Principles or GAAP. Statements of Accounts generated from Simply Accounting will enable CKIPC to easily track revenues and expenditures by project.

All inventory, monitoring and treatment data was recorded as per Invasive Alien Plant Program guidelines and has been, or will be in early January 2011, entered into the Invasive Alien Plant Program. The CKIPC data manager is Crystal Klym, Coordinator. Catherine MacRae provided expertise and training to CKIPC contractors as well as the Invasive Plant Council of BC Hot Spot crew and Regional Technical Support worker.

CKIPC contractors and crews received the following training in 2010:

- Invasive Alien Plant Program data entry and map display (Nelson, BC): Hot Spot Crew, Coordinator
- Roadside inventory techniques (Nelson, BC): Hot Spot Crew, Coordinator
- Enterprising Non-Profits seminar (Trail, BC): Outreach Specialist
- Get Outdoors Weekend Workshop (Invermere, BC): Outreach Specialist
- Community Based Social Marketing Workshop (Dr. Doug Mackenzie-Moore) (Richmond, BC): Coordinator, Outreach Specialist

Education and Awareness

One of CKIPC's main program areas is education and awareness. Key messages include:

- Invasive plants threaten our ecosystems and economy;
- People are the biggest source of spread of invasive plants;
- Prevention is the best control option; and
- Collaboration and cooperation is the key to successful invasive plant management in the central Kootenay region and across the province.

As with previous years, activities undertaken in 2010 include delivery of presentations and workshops, participation in community events, landowner contact, and distribution of outreach tools and publications. Much of these activities were made possible through the Invasive Plant Council of BC's Outreach Specialist positions.

Invasive Plant Council of BC Outreach Specialists

The Invasive Plant Council of BC and CKIPC worked collaboratively to deliver the "Stop the Spread" campaign throughout the Central Kootenay region in the spring of 2010 and fall/winter of 2010. In the spring, two Outreach Specialists were hired by the Invasive Plant Council of BC for three months to deliver this program, under the direction of Eva Cameron, past Coordinator. In the late summer, one Outreach Specialist was hired for four months to deliver this program, under the direction of Crystal Klym, current Coordinator.

CKIPC was fortunate to have two Outreach Specialists for the spring program, Valerie Huff⁷ and Jennifer Vogel. Together they were able to reach several groups through presentations, workshops and interactive booth displays. The CKIPC booth was displayed at several Seedy Saturday events throughout the West Kootenay (approximately 300 participants) and at the Waneta Mall for a full three days in January (approximately 120 participants). Three presentations, to various recreation groups, including the Backcountry Horseman Association, Castlegar Garden Club and the Kootenay Columbia Trail Society

⁷ Valerie stepped down from the CKIPC Board for the duration of this position.

(42 participants) were provided. In addition, several outreach materials were produced, including the development of a youth education program, which was distributed to ten elementary schools throughout the Central Kootenays. This program allowed for extensive networking with interested user groups, including various trail management groups (Slocan Valley Heritage Trail Society, etc.), recreation groups (West Kootenay ATV, etc.) and with garden clubs and nurseries. A summary of spring activities is presented in Table 3 below.

Table 3: Summary of Spring 2010 IPCBC Outreach Specialist Activities

Audiences reached	Number, Type of Activity and # people targeted	Brief description of activity and how it was completed
Elementary Classes	<ul style="list-style-type: none"> - Contacted 11 schools in SD20 - Contacted 16 schools in SD8 - 30 children reached directly by program 	<ul style="list-style-type: none"> - Prepared contact list (SD20-9 schools contacted; SD8-18 schools contacted) - Re-designed Youth Pulling Together Program - Sent introduction letter and description of Nab the Bully program to 11 schools in the SD20 area and 16 schools in the SD8 - Organized Poster Contest - Printed and bound 10 Youth Pulling Together kits, bought and organized supplies for kits
Girl Guides/Scouts	<ul style="list-style-type: none"> - 1 presentation organized using Youth Pulling Together - 10 people for the event 	<ul style="list-style-type: none"> - Valhalla Girl Guides booked for June, 2010
General Public	<ul style="list-style-type: none"> - Booth set-up and brochure hand-out - 120 people at Waneta Mall - 300 people at Seedy Saturdays 	<ul style="list-style-type: none"> - Booth set-up and brochures distribution - Booking of Communities Pulling Together events for Summer 2010
Trail Societies	<ul style="list-style-type: none"> - Discussion re: invasive plant management and tail gate sessions at Kootenay Columbia Trail Society and Slocan Valley Heritage Trail Society (10 people) - Attended Rossland Backcountry Film Festival with booth (20 people) 	<ul style="list-style-type: none"> - Contacted 5 local trail societies (biking and multi-use) - Scheduled tailgate sessions for the spring - Prepared two articles regarding invasive plants of concern within the Kootenay region related to trail use - Discussed invasive plants with 20 people at the Film Festival
ATV, Angling and Hunting Groups	<ul style="list-style-type: none"> - Produced an article related to invasive plant spread and what you can do to decrease your impact, to be used during the summer months 	<ul style="list-style-type: none"> - Familiarized self on material - Identified groups of concern - Draft articles with photos completed
Kootenay Association for Science and Technology Environmental Luncheon Participants	<ul style="list-style-type: none"> - 50 people attended - Booth set-up and brochures 	<ul style="list-style-type: none"> - Booth set-up and brochure's - 5 minute discussion on what the Invasive Plant Council of BC and CKIPC are and contact information

Audiences reached	Number, Type of Activity and # people targeted	Brief description of activity and how it was completed
Regional District of Kootenay Boundary Area A Residents and Ranchers	<ul style="list-style-type: none"> - 150 letters of introduction to event sent - Agriculture and Range Spotters chosen 	<ul style="list-style-type: none"> - Introduction letter, poster and Hoary Alyssum Targeted Invasive Plant Solution (TIPS) brochures sent to 150 households in the Area A region - Spotters presentation reviewed
Friends of the Rossland Range	<ul style="list-style-type: none"> - Spotters workshop hosted and organized by Friends of the Rossland Range (30 people) - Mix of aquatic and terrestrial invasive species of concern within watershed 	<ul style="list-style-type: none"> - Meeting with Friends of the Rossland Range, discussion of invasive plants of concern, ensuring that invasive plants are taken into consideration when planning and managing trails - Suggested that a formal invasive plant management plan is formulated
Garden Clubs	<ul style="list-style-type: none"> - Spotters workshop provided (30 participants) - Spoke with all nursery owners in the area, and provided "Grow Me Instead" brochures 	<ul style="list-style-type: none"> - Good discussions - More brochures should be provided in the summer of 2011
Regional District Kootenay Boundary Area A landowners and Environmental Services	<ul style="list-style-type: none"> - Discussion with Columbia Garden Winery and Columbia Garden Weddings regarding invasive plant management (4 people) - Discussion with Environmental Services about invasive plant management 	<ul style="list-style-type: none"> - Information used for article series that will be launched in the summer - Draft articles completed

Throughout the fall and winter program, several groups received presentations, including three elementary schools, two aquatic stewardship/recreation groups, and one trail/recreation group (Table 4). In addition, a two-hour "Weedy Workshop" was developed and delivered through the Selkirk College Continuing Education Program. Three local events were attended with the regional booth and various resources provided by the Invasive Plant Council of BC. The number of individuals reached through this program totaled 1054 directly. In addition promotional items, such as t-shirts, reusable grocery bags, vehicle magnets and booth displays were created.

Table 4: Outdoor club/association presentations 2010 IPCBC Fall/Winter Outreach Program

Group	Presentation	# of attendees
Slocan Lake Stewardship Society	Spotter's aquatic with regional content	31
Castlegar Friends of Parks and Trails	Spotter's general with trail management information	20
West Kootenay Fly Fishing Club	Spotter's aquatic with regional content	21
TOTAL		72

Press Releases and Media Interviews

Several media releases and publications⁸ were developed through the outreach position term and circulated to the CKIPC membership and media contacts. Those that were created by the Outreach Specialist but not circulated in 2010 will be used by CKIPC in 2011.

In total, eight press releases were submitted and published by local media (Nelson Star, Pennywise, Rossland Telegraph, Trail-Rossland News, Arrow Lake News, Castlegar News, and Creston Valley Advance). Feature press releases included the following:

- Giant Hogweed, It's Nasty and it's Here, October 2010
- Trafalgar Pulls Together For Our Community, October, 2010
- Invasive weed giant hogweed becoming widespread, October, 2010
- Aquatic invasive plants a risk to Slocan Lake, December, 2010
- Thanks to Volunteers at the Rossland Invasive Plant Pull, August 2010
- Pulling Together to Pull out the Hound's Tongue, August, 2010
- Kootenay Weed Invasion!! Help Stop the Spread of Eurasian Watermilfoil and Hoary Alyssum, August, 2010
- Youth Pulling.....Weeds.....Together, May 2010

The *Giant Hogweed, It's Nasty and it's Here* press release generated lots of media and public interest. In response to this interest, the CKIPC Coordinator gave two radio interviews (KBS Radio and Mountain FM) and followed up with a number of email and phone information requests.

Articles and Publications

Throughout the course of the fall/winter outreach position, many outreach materials were produced and distributed. These tools proved to be useful during the program and will be outreach materials that CKIPC can use in the future. Below is a list of outreach materials that were created or completed during the contract:

- 12 weed of the week profiles
- Weedy Workshop manual (8)
- Youth Pulling Together kits (10)
- Homework sheets for teachers
- New CKIPC booth (under development)

⁸ Copies of press releases, articles or any other CKIPC publication are available upon request: coordinator@kootenayweeds.ca or 250-352-1160.

- Prize packages
- CKIPC bags, T-shirts, vehicle magnets
- Articles (8)
- New website (in draft)

Examples of the above mentioned outreach materials are available upon request and digital copies, as appropriate, will be made available once the updated website is live.

Communities and Youth Pulling Together & Youth Pulling Together

With support from the Columbia Basin Trust, Communities Pulling Together and Youth Pulling Together raise awareness about invasive plants in the central Kootenay, and engage community groups and youth in invasive plant management and environmental stewardship.

Communities Pulling Together encourages community groups to commit three hours to manual treatment of a high priority invasive plant site. The program includes an introduction to invasive plants and information on identification, appropriate methods of treatment, and disposal. In recognition of the group's efforts, each one receives a \$250 honorarium, t-shirts (with the Communities Pulling Together logo), refreshments, invasive plant carabiners, and other invasive plant education items. Sites were selected early in the season and matched with interested community groups and additional invasive plant carabiners were produced and assembled for the program. There was excellent feedback from participants and two of the returning groups are stewarding areas where they conducted their first community pull. Treated sites will be monitored for treatment efficacy in spring 2011. All Communities Pulling Together treatment data was entered into the Invasive Alien Plant Program.



Figure 3: Ministry of Environment Social Committee Communities Pulling Together event participants mechanically controlling Scotch Broom at Kokanee Creek Provincial Park in spring 2010 (T. Anderson)

The Youth Pulling Together program was developed in 2009 with the goal of targeting young people and school groups. Ten teaching kits are being developed for Grades 4 to 6. This program utilizes the Fraser Basin Council’s “Nab the Bully” program and other teaching tools to meet learning outcomes in Science and Social Studies for Grades 3 to 6 in our region.

In 2010, both programs continued to build on past successes and lessons learned and were delivered throughout the central Kootenays (Table 5, Table 6).

Table 5: Communities Pulling Together Events for 2010

Group or Organization Name	Site Location	Species treated	# Participants	# of Hours	# People Hours	Area Treated (ha)	# of bags filled	# of Kg
Valhalla Girl Guides	Girl Guides Camp and Bosun Hall	Scotch broom, Spotted knapweed	15	3	45	0.003	40	NA
Kootenay Columbia Trail Society	Centennial Trailhead	Common tansy, Hoary alyssum	12	3	36	1	34	NA
Nelson Cycling Club	Mountain Station	Knotweed, Burdock	10	3.5	35	0.005	20	NA

Group or Organization Name	Site Location	Species treated	# Participants	# of Hours	# People Hours	Area Treated (ha)	# of bags filled	# of Kg
Trail Wildlife Association	Hwy 22 and Casino Road	Knotweed, Scotch broom	15	3.5	52.5	1	NA	900
Communities in Bloom/Castlegar Interact Club	Millinium Park and Hwy 3	Spotted knapweed, Scotch broom	20	4	80	1	50	600
Keep the Beat, Warchild	Kokanee Creek Provincial Park	Scotch Broom	10	3	30	1	NA	500
Ministry of Environment Social Committee	Kokanee Creek Provincial Park	Scotch broom and Mouse eared hawkweed	30	3	90	1	NA	500
Rosland Rotary	Rosland Bike Skills Park/Reptile Habitat Conservation Area	Hounds tongue and fuller's teasel	15	3	45	2	50	NA
Rosland Interac	Rosland Bike Skills Park/Reptile Habitat Conservation Area	Hounds tongue and fuller's teasel	12	3	36	2	50	NA
Trafalagar Secondary School	Nelson Waterfront	Yellow flag iris and purple loosestrife	70	3.5	245	1	NA	1072
TOTAL			209	32.5	694.50	10.008	244	3572

Table 6: Youth Pulling Together and School Presentations 2010

	School Name	Date of Program Delivery	Class	Number of Student Participants
1	Fruitvale Elementary, Fruitvale	May 17, 2010	Grade 5-6	26
2	Fruitvale Elementary, Fruitvale	May 2010	Grade 1-2	21
3	Brent Kennedy, Nelson	May 26, 2010	Grade 1-2	21
4	Brent Kennedy, Nelson	May 27, 2010	Kindergarten	20
5	Brent Kennedy, Nelson	May 27, 2010	Grade 3	22
6	JL Crowe, Trail	June 1, 2010	Grade 11	11

	School Name	Date of Program Delivery	Class	Number of Student Participants
7	Nelson Christian Community School, Nelson	June 3, 2010	Grade, 4-6	15
8	Nelson Elementary, Nelson	June 7, 2010	Grade, 3-4	21
9	Brent Kennedy, Nelson	June 16, 2010	Grade 2-3	22
10	LV Rogers High, Nelson	June 14, 2010	Biology 11	25
11	Nakusp Elementary, Nakusp	September 21, 2010	Grade 5-6	21
12	South Nelson Elementary, Nelson	October 18, 2010	Grade 3-4	23
13	Yaqa Yukiy School, Creston	November 5, 2010	Intermediate Class	8
14	J.L Crowe Secondary School (Trail).	October 26, 2010	Grade 11-12	20
Total Number of Participants: 261				

General CKIPC Extension Activities

In addition to those activities delivered by Outreach Specialists, the Coordinator and Assistant Coordinator undertook a number of other extension activities in 2010.

Display Booth

During 2009 the CKIPC display booth was hosted at four events, including spring and fall venues (Table 7). Given the invitations we receive to host our display booth at a variety of venues, and the cost associated with transporting and hosting the booth, CKIPC is following a rotation schedule to ensure that over a three to five year period, the booth will have a presence at each community in our area.

Table 7: Events attended with Booth (2010)

Event Location	Resources	Number of Reached
Rosland Farmer's Market	T.I.P.S sheets, CKIPC brochure, terrestrial carabiners, "Grow Me Instead" brochures	20
New Denver Garlic Festival	T.I.P.S sheets, CKIPC brochure, terrestrial carabiners, "Grow Me Instead" brochures	60
Nelson Community Garden	T.I.P.S sheets, CKIPC brochure, terrestrial carabiners, "Grow Me Instead" brochures	20
Kaslo Saturday Market	T.I.P.S sheets, CKIPC brochure, terrestrial carabiners, "Grow Me Instead" brochures	25
TOTAL		125

E-newsletter

Five E-Newsletters were sent to the CKIPC membership in 2010. A new format was developed for the E-Newsletter (Appendix 1), which featured the following information in each issue: upcoming events (local, regional, provincial, national, and international); outreach updates; regionally specific news and articles (i.e., "Giant Hogweed: It's nasty and it's here", "Aquatic Invaders in the Kootenays", etc); an interesting national or international press release or article (i.e., "Invasive species and climate change

form a 'deadly duo', warn top scientists"); interesting news links and tidbits from around BC and beyond; and weed of the month. The format and design will be revised as needed.

AGM Speaker Series & Annual Weed Tour

The CKIPC Annual General Meeting was held April 13th, 2010 in Castlegar. New this year was the addition of a morning Speaker Series that featured presentations from experts around the central Kootenays including Deb MacKillop (Ministry of Forests and Range), Valerie Huff (HER Consulting), and David Caswell (Regional District of Kootenay Boundary). Topics included "Predictions for Climate Change in the Kootenays", "Recipe for a Weed: Ingredients of Invasive Reed Canarygrass", and "Invasive Aquatics: Gateways and Indicators". The Speaker Series was well received and will be continued in 2011.

The CKIPC Annual Weed Tour, "When Good Gardens Go Bad" was held on June 23rd at Kokanee Creek Provincial Park. Over 30 CKIPC members and Directors participated and learned about bristly locust, escaped ornamentals, tips for being "garden smart", biological control, and effective control options for ecosystem recovery. Overall, the field day was a success and will be hosted again in 2011.

Landowner Visits

The CKIPC continued to deliver the education component for the Regional District of Kootenay Boundary, through landowner visits, provision of resources and assistance with management plans and techniques of invasive plant species on private lands. In addition, Casino received various brochures at the post kiosk and several offices throughout the Greater Trail Area received invasive plant literature and specifically aquatic invasive plant resources. In addition to landowner visits completed under the Regional District of Kootenay Boundary Area A program, CKIPC completed six landowner visits in the Salmo, Pass Creek, Nelson, Hills, and Slocan Park in 2010. Discussions focused on biocontrol, integrated pest management tools, and invasive plant identification.

Publication and Outreach Tools

The **highway sign project** continued in 2010; however, the number of signs installed was much less than 2009. As with previous years, the signs generated interest and inquiries from the public about invasive plants and CKIPC aims to improve this program in 2011 by increasing the number of signs installed and circulating articles and press releases to raise awareness of the sign project. Overall, 22 signs were posted along major road corridors in the central Kootenay, timed to coincide with the flowering of each species. Signs were removed once the plant finished flowering. The Hot Spot crew supported the installation, maintenance and removal of signs throughout their projects. CKIPC will be working with ATCO Wood Products and other supporters to increase the number of signs installed in 2011.

The **CKIPC website**, www.kootenayweeds.com, is currently undergoing a comprehensive review, and will be updated in early 2011. Proposed revisions include a more user-friendly interface, increased linkages to other invasive species organizations and resources, current news and events, and an aquatic invasive species webpage. With these revisions, the Coordinator and Assistant Coordinator will have an improved ability to keep content and resources current.

The CKIPC **invasive plant hotline**, 1-250-352-1160, was well advertised in 2010. CKIPC received over 100 phone calls between June and December, and over 50 emails from people inquiring about invasive plant identification and management, requesting membership information, and expressing general concern about the perceived lack of management of invasive plants on Crown lands. Many calls were regarding spotted knapweed on transportation and utility corridors. Some reports of giant hogweed were received because of the extensive media coverage; however, most reports – with the exception of one in Hills – were confirmed to be native species such as cow parsnip. Through increased education and awareness and support from the IPCBC Hot Spots crew, CKIPC was able to identify, inventory and remove an isolated patch of giant hogweed in Hills.

The IPCBC Aquatics SWAT crew was able to install some of the **Eurasian water milfoil interpretive signs** at Kootenay Lake boat launches and at other sites with high public use. This project was initiated in 2008-09 with support from the Fish and Wildlife Compensation and the Columbia Power Corporation. In total, nine signs were installed in addition to the 12 installed in 2009.

Provincial and Regional Collaboration

The CKIPC Coordinator represented the committee on a broader level (primarily provincial) to ensure that current information and resources are made available to CKIPC members, land managers and others, and that regional issues are brought forward to the provincial level. This level of collaboration is also important to improve efficiencies in the design and delivery of regional programs, projects and materials as well as to foster cross-border collaboration and cooperation. The CKIPC Coordinator participated in a number of committees, meetings and workshops including:

- IPCBC Communications & Awareness Committee
- IPCBC Technical & Operational Support Committee (and Aquatics Sub-Committee)
- Weed Coordinator Working Group (monthly teleconferences; in-person meetings at least twice per year)
- Invasive Alien Plant Program Version 2 Advisory Committee

Compliance and Enforcement

CKIPC does not deliver a compliance and enforcement program. Invasive plant complaints have been received via the CKIPC “hotline” (see Publication and Outreach Tool section), and the Coordinator and/or Assistant Coordinator provided whatever assistance and resources were available to mitigate the caller’s concerns. Some complaints resulted in a landowner visit.

Research

CKIPC did not conduct any research activities in 2010; however, CKIPC did provide input on seeding and restoration trials conducted by the Kaslo Job Opportunities Program crew.

Financial Statement

Table 8: Invasive Plant Program Total Revenue Summary by Funding Agency Report for 2010⁹

Source of Revenue	Amount (\$)
Ministry of Natural Resource Operations (formally Ministry of Forests and Range)	\$20,000.00
Terasen Gas	\$13,752.74
Regional District of Kootenay Boundary (Area A)	\$5,700.00
Agriculture Environment Wildlife Fund	\$1,000.00
Ministry of Transportation and Infrastructure	\$10,200.00
BC Hydro	\$6,000.00
Invasive Plant Council of BC	\$40,399.17
Columbia Basin Trust	\$21,200.00
Kaslo Job Opportunities Program	\$1,800.00
Nature Conservancy of Canada	\$500.00
Interest Revenue, Misc Revenue	\$299.43
Total	\$120,851.34

Table 9: CKIPC Invasive Plant Program Total Expenditure Summary by Activity Report for 2010

Activity	Expenditures* (\$)
1. Inventory	\$15,247.35
2. On-the-Ground Treatments ^{10,11}	\$7,142.67
3. Administration	\$4,353.32
3. Coordination ¹²	\$49,317.15
4. Education & Awareness	\$24,351.00
5. Compliance & Enforcement	\$0
6. Research	\$0
7. Other (general: travel, materials, supplies, office expenses; GST/HST; hotline; storage unit rent; website fees)	\$2,334.78
Total	\$102,746.27

Proposed Program for 2011

CKIPC anticipates that 2011 will see increased coordination and delivery of on-the-ground programs, and improved collaboration between land managers in the delivery of regional invasive plant management programs. CKIPC will also focus on evaluating and enhancing existing education and outreach programs, activating an Aquatics Advisory Committee, and diversifying funding opportunities.

Proposed activities for 2011 include:

- Hosting a land managers workshop in early 2011 and jointly developing a detailed 5-year CKIPC work plan for on-the-ground operations.

⁹ A three-year grant was received from the Ministry of Agriculture in 2009 totaling \$42,000.

¹⁰ Mechanical control of isolated infestations was often conducted during inventories, thus was not tracked separately.

¹¹ Includes biological control collection and releases, and knapweed density plot monitoring.

¹² Includes data entry and work planning. A high percentage of these funds were used to coordinate the Hot Spots crew, SWAT crew and Outreach Specialist.

- Delivering a coordinated invasive plant management program including inventory and management of priority species, such as wild carrot, and areas as identified in the 2011 work plan (see above point) for all areas within the CKIPC region including Creston. This includes the regional coordination of invasive plant programs for the following jurisdictions/organizations: Terasen Gas, BC Hydro, Ministry of Transportation and Infrastructure, and Regional District of Kootenay Boundary (Areas A and B).
- Delivering on high priority tasks as identified in the Central Kootenay Invasive Plant Strategy.
- Collaborating with the Creston Valley Beef Growers Association to deliver a coordinated invasive plant program from Yahk to Creston through to Salmo.
- Delivering high-quality education and outreach programs including 10 YPT programs and 10 CPT events throughout the region.
- Working with the Regional District of Central Kootenay to develop and deliver a successful “no tip” fee program.
- Creating and expanding on outreach materials including invasive plant profiles, weed alerts,
- Redesigning and improving the CKIPC website.
- Coordinating the invasive plant highway sign program with support from the Ministry of Transportation and Infrastructure.
- Developing (as required) and distributing invasive plant identification, prevention, and management resources and brochures to the general public, private landowners, and land managers. This includes stocking or re-stocking visitor info centers, offices, libraries, and other key venues as guided by the Board of Directors.
- Promoting provincial programs and resources, as appropriate, including the Weeds and Roads Training Program, and Spotter’s Network. Pending funding, this would also include the regional coordination and delivery of any future Hot Spots crews and outreach workers.
- Conducting landowner visits, as required and/or requested.
- Coordinating an Annual General Meeting and Speaker Series (April 2011), and Annual Field Tour (June 2011). Hosting additional land manager and partner meetings as required to foster coordinated delivery of invasive plant programs throughout the region.
- Conducting and monitoring treatment trials on knotweed and coltsfoot.
- Updating the CKIPC booth and hosting it at key events around the region.
- Developing best practices and invasive plant management plans/tools for municipalities and public works crews.

- Raising awareness and delivering “Grow Me Instead” training for growers, retailers, gardening enthusiasts, and others involved in the horticulture industry.
- Collecting, shipping, and releasing biological control agents as directed by the Ministry of Natural Resource Operations. Monitoring historical release sites and existing/potential collection sites.
- Providing support to land managers, supporters, and partners as required.

Opportunities and Challenges

Generous funding and support from a broad range of agencies in 2010 allowed CKIPC to continue offering and enhancing outreach and education programs as well as delivering on-the-ground invasive plant management programs. Expanding on lessons learned from 2009, CKIPC was able to improve its approach to on-the-ground management and expand its inventory and mechanical control programs. Work conducted under 2010 programs (i.e., Hot Spots, Terasen Gas, Regional District of Kootenay Boundary Area A, BC Hydro, etc) will enable CKIPC to develop a comprehensive regional work plan in the winter of 2011, which will ensure timely and efficient delivery of programs in the spring and summer of 2011. Increased funder support and expansion of regional programs enabled CKIPC to create a project-based Assistant Coordinator contract opportunity.

Many of CKIPC opportunities in 2010, as with 2009, were also its challenges. For example, a new Coordinator – Crystal Klym – was welcomed in June 2010. As she was brought up to speed it was challenging to roll out programs efficiently and effectively. There were also challenges in obtaining the necessary approval to conduct mechanical control on aquatic invaders such as Eurasian watermilfoil, and currently there is very limited funding for private land outside of Regional District of Kootenay Boundary Area A.

Appendices

Appendix 1: Example of CKIPC E-Newsletter

Central Kootenay Invasive Plant Committee (CKIPC)
www.kootenayweeds.com



E-Newsletter

"Working together to prevent the spread of invasive plants in the Central Kootenays"



August-September 2010

Upcoming Events

Nanaimo, Sept 28 Kaslo, Sept 30	Selkirk College Continuing Education, <i>Windy Workshops</i> from 7-9pm
Nanaimo, Sept 29 Trail, Sept 30	Selkirk College Continuing Education, <i>Grow Your Own Native Plants</i> from 7-9pm
Nelson, Oct 2	<i>Invasive Medicinal Plants and Their Alternatives Workshop</i> , Cottonwoods Community Garden
Kelowna, Oct 19-22	<i>Integrated Vegetation Mgmt Assoc. of BC Conference</i>
Richmond, Jan 18-19 2011	<i>Invasion of the Allevs</i> , the 2011 IPCBC forum, Delta Vancouver Airport Hotel

Communities Pulling Together

On September 10th over seventy Grade 7 students from Trafalgar Middle School set out to control some of the Central Kootenay's most notorious invasive plants, including purple loosestrife (*Lythrum salicaria*) and yellow flag iris (*Iris pseudacorus*), along the banks of the Kootenay River. Sponsored by the Columbia Basin Trust and the Community Adjustment Fund, and hosted by the Central Kootenay Invasive Plant Committee (CKIPC) and Invasive Plant Council of BC (IPCBC), the Communities Pulling Together event was a huge success.

"We learned how invasive plants are affecting biodiversity, our local economy and communities," explained teacher Joclyn Decker. "Our students are proud that their efforts have improved growing conditions for native plants along the creek, which provide important habitat for wildlife. They also helped to slow the spread of invasive plants in our community."

The IPCBC provided each class with a \$250 honorarium for their efforts. The students will use the money to purchase trees for the ongoing Trafalgar School landscaping project. A total of 92 native trees will be planted in groupings that reflect the forest ecosystems that occur in our region. The trees will not only provide much needed shade and improve the outdoor environment for students, but they will also create a living classroom so students can continue to learn about the importance of healthy ecosystems.



Book a CPT event for 2011

Eligibility criteria and registration information can be found at: <http://www.kootenayweeds.com/pulling.php>. You can also email assistant@kootenayweeds.com or call 250-362-5624.

Photo: Jeff Taylor, photos: Jeff Taylor & J. Ashwood, illustration: Eg. de M&A, B&M

Appendix 2: Priority Species

Categories of Invasive Plant Species for the Central Kootenay CKIPC Area Based on Proposed Action and Treatment.

Category 1	Category 2	Category 3	Category 4
Black Knapweed	Blueweed	Baby's Breath	Bull Thistle
Common Bugloss	Fuller's Teasel	Black Locust	Burdock
Gorse	Giant Knotweed	Bristly Locust	Canada Thistle
Marsh Thistle	Hoary Cress	Brown Knapweed	Common Hound's-tongue
Nodding Thistle	Japanese Knotweed	Common Tansy*	Common Toadflax
Perennial Pepperweed	Leafy Spurge	Diffuse Knapweed	Dalmatian Toadflax
Puncturevine	Mouse-ear Hawkweed	Hairy cat's ear	Downy Brome
Russian Knapweed	Scotch Thistle	Field Scabious	Oxeye Daisy
Tansy Ragwort	Yellow Iris	Himalayan Blackberry	Spotted Knapweed
Yellow Starthistle	Eurasian Water-milfoil*	Hoary Alyssum	St. John's-wort
		Meadow Knapweed	Sulphur Cinquefoil
		Orange Hawkweed*	
		Plumeless Thistle	
		Policemen's Helmet	Agricultural/Horticultural
		Purple Loosestrife	Curled Dock
		Rush Skeletonweed	Dodder
		Scentless Chamomile	Hops
		Scotch Broom	Perennial Sow Thistle
		Wormwood	
		Yellow Hawkweeds*	

* Insufficient inventory information available to accurately categorize species.

Note: Additional information regarding containment and control strategies are found in Wikeem (2007) and Invasive Plant Profiles and Treatment Options in the Central Kootenay (in prep.).

Legend
Category 1. New species not present in BC or in the Central Kootenay area but likely to establish if introduced. Early detection and rapid response is the main management focus.
Category 2. New species to the CKIPC area with limited distribution and low density on infested sites. Species invading susceptible habitats, sensitive areas, or sites containing red- or blue-listed species. New infestations of established species in the area beyond the original population. Eradication is the main management focus.
Category 3. Established infestations along transportation corridors and areas of concentrated activities such as trails, campgrounds, parking lots, garbage dumps, maintenance yards, and gravel pits. These species are well established in some parts of the Central Kootenay but not present throughout most of the region. Control and containment are the main management focuses.
Category 4. Established low-density or high-density infestations that are widely distributed throughout the Central Kootenay area. Containment and control are the main management focuses.
Species of Agricultural and Horticultural Concern. Invasive species that may interfere with agricultural production or become garden pests. Containment and control are the main management focuses.