# **The Kootenay Community Bat Project:** 2005 Summary Report



Lone Townsend's big-eared bat reported by a resident

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Prepared for: Columbia Basin Trust<sup>3</sup> and Columbia Basin Fish and Wildlife Compensation Program<sup>4</sup>

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## Acknowledgements

The success of this project can be attributed to the involvement of many volunteers. We wish to thank all of the residents who reported their bat colonies, allowed us to investigate their roosts, submitted dead bats for identification, or provided us with information: They are too many to list, but without them, this project would not have been possible.

We would especially like to thank Sarah Roberts for her field assistance and for updating the website and Tom Bradley for his GIS assistance. Thanks also to: Craig Lawrence for organizing the community programs in Winlaw, the staff of the Pass Creek Regional Park for hosting a public mist-netting night, Gwen Teichroeb for organizing the Argenta events, Tamara Smith for providing graphic design support for posters, Dr. Mark Brigham and Cori Lausen for sharing their technical expertise, Thomas Stewart for assisting with cutting bat-house supplies, Per Wallenius for storing bat-house supplies, Thomas Hill and Aaron Reid for their assistance with surveys, and Marlene Hebert for her enthusiasm and assistance with field surveys and public events. Special thanks to Angela Saffire for recording information on the Townsend's big-eared bats near Winlaw.

We graciously acknowledge the Columbia Basin Trust, Public Conservation Assistance Fund, Kaslo Nature at Night, and the Dancing Bear Inn for providing funding for this project. We are grateful to the Columbia Basin Fish and Wildlife Compensation Program for their administrative support, particularly Ross Clarke and John Gwilliam for reviewing a draft of this report and to Mark Schnider for preparing GIS maps.





Public Conservation Assistance Fund

## **Executive Summary**

The Slocan Valley Bat Project (SVBP) was initiated in 2004 to raise awareness about bats and their conservation, identify local bat species and their roost sites, and to provide a resource to residents with bats on their property. The overwhelming enthusiasm from residents in the Slocan Valley and surrounding area, and the success of the project in identifying local bat species, led to the expansion of the SVBP in 2005 and its renaming as the Kootenay Community Bat Project (KCBP). This report provides only a brief summary of the activities and results from the KCBP in 2005. For a more detailed overview of the objectives and methodology of the project, please see *Slocan Valley Bat Project: A Community Approach to Bat Inventory and Conservation* (Craig and Sarell 2004).

The objectives of the Kootenay Community Bat Project in 2005 were:

- 1) To promote public awareness of the diversity and importance of bats through education and dispelling myths;
- 2) To identify bat roosts on private property, some which could be at risk by inappropriate management practices;
- 3) To work with resident to promote the conservation and enhancement of these roost sites, including addressing landowner concerns (e.g. health, noise);
- 4) To encourage residents to record bat activity at their roosts.

In 2004, the focus of the bat project was the Slocan Valley. However, with phone calls from interested residents throughout the Kootenays, the study area of the KCBP in 2005 was expanded to include the entire West Kootenay.

This project incorporated outreach, inventory, stewardship and conservation. The project was highly publicized, and encouraged local participation in identifying and conserving bat roosts. As well as raising awareness through advertising and public events, the project included roost surveys. Approximately 137 site visits were conducted throughout the 2005 field season to actual and suspected bat roosts for a total of 229 site visits in the past two years.

A total of 114 roost sites were identified during 2005, including 62 maternity roosts, 36 day roosts, 10 night roosts, and 6 unknown roosts. Seven bat species were seen or detected in 2005 including Townsend's big-eared (*Corynorhinus townsendii*), little brown myotis (*Myotis lucifugus*), California myotis (*M. californicus*), Yuma myotis (*M. yumanensis*), big brown bat (*Eptesicus fuscus*), silver-haired bat (*Lasiurus noctivigans*) and long-legged myotis (*M. volans*).

The KCBP continued to raise awareness about bats and engage communities in bat conservation. With almost 230 site visits conducted in the past two years, and numerous public events with high attendance, residents have been learning about the importance of bats. The increased number of reported roost sites is indicative of a higher awareness of the project and its goals. We hope that the continuation of this project will lead to further public involvement and awareness.

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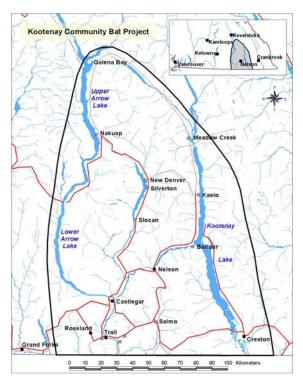
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## Introduction

The Slocan Valley Bat Project (SVBP) was initiated in 2004 to raise awareness about bats and their conservation, identify local bat species and their roost sites, and to provide a resource to residents with bats on their property. The overwhelming enthusiasm from residents in the Slocan Valley and surrounding area, and the success of the project in identifying local bat species, led to the expansion of the SVBP in 2005 and its renaming as the Kootenay Community Bat Project (KCBP). This report provides only a brief summary of the activities and results from the Kootenay Community Bat Project in 2005. For a more detailed overview of the objectives and methodology of the project, please see *Slocan Valley Bat Project: A Community Approach to Bat Inventory and Conservation* (Craig and Sarell 2004).

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- 1. To promote public awareness of the diversity and importance of bats through education and dispelling myths;
- 2. To identify bat roosts on private property, some which could be at risk by inappropriate management practices;
- 3. To work with resident to promote the conservation and enhancement of these roost sites, including addressing landowner concerns (e.g. health, noise and smell);
- 4. To encourage residents to record bat activity at their roosts.



## **Study Area**

In 2004, the focus of the bat project was the Slocan Valley. However, with phone calls from interested residents throughout the Kootenays, the study area of the KCBP in 2005 was expanded to include the entire West Kootenay (see Figure 1). Castlegar, Nelson, Ymir, Balfour, Thrums, Shoreacres and Kaslo.

The study area is located within the Central Columbia Mountains, Selkirk Foothills, and Southern Columbia Mountains ecosections. The areas surveyed were primarily within six subzones of the Interior Cedar Hemlock biogeoclimatic zones: (ICHdw, ICHmw2, ICHwk1, and ICHvk1, ICHxw, ICHmw4).

Figure 1. Location of Kootenay Community Bat Project in south-eastern BC.

## **Methods**

This project incorporated outreach, inventory, stewardship and conservation. The project was highly publicized, and encouraged local participation in identifying and conserving bat roosts. For a detailed description of the methodology for this project, please *Slocan Valley Bat Project: A Community Approach to Bat Inventory and Conservation* (Craig and Sarell 2004).

## **Project Promotion**

## **Advertising**

Posters were developed in 2005 to advertise the project and to encourage residents to report their bats.



The key to this project was advertising and promotion. Posters were developed and installed throughout the West Kootenay, and newspaper articles were written throughout the summer to promote the project, inform residents of recent findings, and raise awareness about bats (see Appendix A). Several radio advertisements and interviews were made on CBC, Kootenay Co-op Radio, and BKR. Radio interviews were done for CBC, Kootenay Co-op Radio and CKNW (Vancouver).

### Website

The website was updated regularly (<a href="www.kootenaybats.com">www.kootenaybats.com</a>) to include information on upcoming events, and results from the 2004 field season. The website is currently averaging 8,500 hits per month, and they have come from around the world including United States, England, and China, although the majority of visitors are from Canada.



### **Public events**

Awareness about this project was also raised through public events. We offered interpretive programs in Winlaw, Nelson, Slocan City, Argenta and Creston. During these programs, we provided information on bats, addressed the myths about bats, discussed methods of research, and provided information on local bat species.

Bat-house building workshops were offered in Winlaw, Nelson, Argenta and New Denver. These programs, carried out in collaboration with the Slocan Valley Recreation Commission, Nelson and District Recreation Commission, and HomeLinks School respectively. Two public mist-netting nights were also offered in Argenta and Pass Creek as part of the project.

In 2005, the Annual Backyard Bat Count was initiated. Held in late June and early July, residents were encouraged to conduct an emergence count of their colony. During all of these events, residents were encouraged to provide their contact information if they had bats on their property and/or if they were interested in joining the bat project email list.

As well as local events, the Kootenay Community Bat Project received international exposure. Juliet Craig, Outreach Biologist, presented at the *Western Bat Working Group* conference in Portland, Oregon and the *North American Symposium for Bat Research* in Sacramento, California, as well as provided the Keynote Address for the *Ecological Monitoring and Assessment Network National Conference* in Penticton, BC.

## Landowner Visits

As well as raising awareness through advertising and public events, we conducted roost surveys to identify bat species and their roost sites. Approximately 137 site visits were conducted throughout the 2005 field season to actual and suspected bat roosts for a total of 229 site visits in the past two years. Methodology followed that of 2004 (Craig and Sarell 2004) with the following differences:

- o The "Landowner perspective" scale was not used in 2005. It did not appear to capture the change in attitudes that was occurring as a result of site visits. Rather, comments were written regarding the perspectives of the resident and any changes as a result of the visit.
- DNA samples were collected on big brown bats to provide to Jacquie Metheny from the University of North Carolina to assist her graduate work. Only two other samples were taken and they have not yet been identified.
- A new company, BAT Management Services was formed in 2005 by sole proprietor, Sean Smerdon. This company focuses on building and installing bathouses, and cleaning and modifying attics. Contact information for this company was provided to residents with bat issues.

## **Results and Discussion**

### **Education and Awareness and Public Involvement**

The enthusiasm and support that the Slocan Valley Bat Project generated in 2004 continued and grew in 2005.



Interpretive programs had high attendance and were popular with both adults and children. A total of 17 interpretive programs were offered to community groups, the general public and school children.

Cori Lausen providing guest talk during interpretive program.

The bat-house building workshops were also popular, with all programs filling up to full attendance. A total of 90 bat-houses were built through local workshops in 2005.





Bat-house building workshops in Winlaw (left). Participant (Raven) with his bat-house in Argenta (right).

The mist-netting night offered in Castlegar at the Pass Creek Regional Park had 150 participants. Due to the large crowd, no bats were actually caught. However, participants learned about bats and research equipment, and enjoyed a night out. Unfortunately, the mist-netting night in Argenta was cancelled due to rain.

The Annual Backyard Bat Count had only seven participants in 2005. More promotion will be done in 2006, as well as phone calls to residents with large colonies to encourage their participation.

These programs provided key contacts in each community, and were instrumental in the success of the project. By the end of the summer, 150 contacts were on the Kootenay Community Bat Project email list.

**Table 1. Summary of 2005 Extension Activities** 

Date	Event	Location	# Audience
04-Jan-05	Kootenay Co-op Radio	Nelson & Area	Unknown
17-Jan-05	General Public	Winlaw	9
19-Jan-05	General Public	Nelson Library	50
23-Feb-05	MWLAP and MSRM staff	Nelson	25
25-Feb-05	West Kootenay Naturalists	Trail	40
28-Feb-05	Company of Older Women	Nelson	15
01-Mar-05	Rotary Club	Nelson	40
01-Mar-05	Brent Kennedy School	South Slocan	25
01-Mar-05	Brent Kennedy School	South Slocan	25
12-Mar-05	Bat-house building	Nelson Recreation Commission	30
01-Apr-05	Western Bat Working Group presentation	Portland, OR	125
17-Apr-05	Bat-house building	Winlaw	50
17-Apr-05	Interp Program	Winlaw	40
13-May-05	Rotary Club	Nelson	7
29-May-05	GRUBS garden kids	New Denver	15
03-Jun-05	LVR High School	Nelson	25
07-Jun-05	Interp Program	Argenta	75
07-Jun-05	Bat-house building	Argenta	75
08-Jul-05	CBC Radio	Throughout BC	Unknown
09-Jul-05	Garden Festival	Creston	15
09-Jul-05	Garden Festival	Creston	15
26-Jul-05	Kootenay Coop Radio	Nelson & Area	Unknown
09-Aug-05	Mist-netting night	Pass Creek Regional Park	150
08-Sep-05	Interp Program	Selkirk College student field trip	25
01-Oct-05	Vancouver Radio CKNW	Vancouver & area	Unknown
22-Oct-05	NASBR presentation	Sacramento, CA (International)	125
05-Nov-05	Bat-house building	Nelson Recreation Commission	50
23-Nov-05	EMAN presentation	Penticton (National)	150
29-Nov-05	Blewett School (grade 2)	Nelson	20
		TOTAL	1236

## Bat Inventory and Roost Sites

A total of 114 roost sites were identified during 2005, including 62 maternity roosts, 36 day roosts, 10 night roosts, and 8 unknown roosts (see Table 2). Seven bat species were seen or detected in 2005 including Townsend's big-eared (*Corynorhinus townsendii*), little brown myotis (*Myotis lucifugus*), California myotis (*M. californicus*), Yuma myotis (*M. yumanensis*), big brown bat (*Eptesicus fuscus*), silver-haired bat (*Lasiurus noctivigans*) and long-legged myotis (*M. volans*).

The silver-haired bat was reported in December 2005, when it repeatedly flew into a resident's house. It is possible that this juvenile male bat had been hibernating in the house, and aroused to find water or food.

For 2004 and 2005, 180 roost sites have been detected from almost 230 site visits. As well, because of the high exposure of this project, roost sites from other areas of BC were reported including Masset (Haida Gwaii), Parsons, Oliver, and William's Lake. When site visits were not feasible, an information package was mailed to the resident following a phone conversation. These roost sites have not been included in the results since the bat species were not identified.

Table 2: Summary of Bat Observations for the Kootenay Community Bat Project (2004 & 2005)

Common Name	Scientific Name	Fed/Prov Status	# Roosts 2004 <sup>3</sup>	# Roosts 2005	TOTAL
Yuma Myotis	Myotis yumanensis	n/a / Yellow	1 Mat	2 Day 10 Mat	13
California Myotis	Myotis californicus	n/a / Yellow	1 Night		1
Little Brown Myotis	Myotis lucifugus	n/a / Yellow	3 Day 13 Mat 2 Night	6 Day 20 Mat 1 Night	45
Western Long- eared Myotis	Myotis evotis	n/a / Yellow	1 Day 1 Mat 1 Night		3
Long-legged Myotis	Myotis volans	n/a / Yellow	1 Day	1 Day 1 Mat 1 Night	4
Big Brown Bat	Eptisicus fuscus	n/a / Yellow	5 Day 8 Mat 2 Night	3 Day 10 Mat 3 Night	31
Townsend's Big- eared Bat	Corynorhinus townsendii	recommended T/Blue	3 Day 2 Mat	5 Day (1 Mat) <sup>4</sup>	10 (1)
Little brown or Yuma	Myotis spp.		2 Mat	3 Mat 3 Day	8
Silver-haired bat	Lasiurus noctivigans	n/a / Yellow		1 Day	1
Unknown Bats	Myotis sp. and others		3 Day 6 Mat 11 Night	15 Day 18 Mat 5 Night 6 Unk	64
TOTAL ROOSTS			16 Day 33 Mat 17 Night	36 Day 62 Mat 10 Night 6 Unk 114 TOTAL	180 (1)

Federal Status is Endangered (E), Threatened (T), Special Concern (SC), Data Defficient (DD), not assessed (n/a)

<sup>2</sup> Provincial Status: Red, Blue, Yellow

<sup>3</sup> Roosts: Maternity is day roost with evidence of parturition; day roost is no parturition detected. Dead bats and bats detected flying are not included in this summary.

<sup>4</sup> One roost was reported by friends of a family who had a Townsend's maternity roost in their barn. This site had already been identified (Firman 1999)

## Townsend's big-eared Bat (Corynorhinus townsendii): Blue-listed

Five day roosts of Townsend's big-eared bats (*Corynorhinus townsendii*) were identified in the West Kootenay in 2005. Two of these roost sites were reported by residents (Castlegar and the East Shore) who recognized the long-eared bats from a photo they had seen in a newspaper. Another two roost sites were identified because residents submitted photos of bats they had seen on their property. It is interesting that one of these photos is from the Slocan Valley in 1995, indicating that other historic information may be available from residents. These photographs are from Appledale and the Columbia Gardens areas. The final day roost site was identified in Blewett, an area where Townsend's big-eared bats were not previously known to occur. This lone bat may indicate further roost sites in the vicinity.

As Townsend's maternity colony was also reported this year by friends of a family with bats in their barn in the Fort Steele area. When the report was followed up, the family indicated that this roost site had already been identified in previous bat inventory work (Firman 1999) so it is not included in our summary.





Photographs submitted by residents of the Kootenays. (left) Photo taken in 1995 in Appledale and (right) photo of bat in basement in Columbia Gardens.

The small maternity cluster near Winlaw was identified in 2004 (Craig and Sarell 2004) was monitored this year. Resident, Angela Saffire took detailed notes on the activities of the bats, providing information on the timing of arrival, parturition and departure (see Table 3).

Funding was acquired from the Public Conservation Assistance Fund to modify this roost site. A design has been developed to add a small room to the roof of the building in order to provide a quieter space for these bats. Although many residents had volunteered for the project, a lead carpenter could not be found so the renovation has been postponed until 2006.

This colony was investigated further by staff from the Columbia Basin Fish and Wildlife Compensation Program (Hill et al 2005). Suspecting a larger maternity roost site in the region, likely in a natural rock feature, Thomas Hill and Aaron Reid caught one of the bats and put a transmitter on her on September 7, 2005. Unfortunately, despite extensive

searching they were unsuccessful in relocating this bat. However, the disappearance of the signal may indicate another roost site (likely a rock feature) in the vicinity.

Table 3: Notes taken by resident, Angela Saffire, about the small Townsend's maternity cluster.

Date	Notes
03-Jun-05	Saw 2. She was away before this.
06-Jun-05	3 bats snuggling
07-Jun-05	4 bats - 3 snuggling and 1 loner
29-Jun-05	4 bats
29-Jun-05	5 bats - 4 snuggling and 1 loner (lighter in colour - grey).
13-Jul-05	Woken by bats crying. Maybe a cat that got them but 4 + 1 are there.
18-Jul-05	Noticed new babies. 7 bats.
27-Jul-05	Woken again by bats crying. Solo dude flew first. Counted 10. 2 slightly bigger and 1 really small. Little ones left behind.
07-Sep-05	For past week, counted 7-8 bats. CBFWCP bat guys came and put on transmitter.
08-Sep-05	Woke to hear bats flying. Squeaking. 6-7 of them.
15-Sep-05	Saw bat with transmitter.
25-Sep-05	8 bats.
08-Oct-05	3 COTO bats - 1 little brown
09-Oct-05	1-3 bats for the past while.
12-Oct-05	3 COTO bats - 1 little brown
13-Oct-05	3 bats.
15-Oct-05	Bats left?

#### Other Bat Observations

A well as Townsend's big-eared bats, six other bat species were recorded in 2005. A detailed database outlining the locations of these roost sites has been submitted to the Columbia Basin Fish and Wildlife Compensation Program.

#### Roost Enhancement and Conservation

Roost enhancement and conservation issues were similar to those of 2004. A number of residents were frightened of bats and hoped that by calling the Kootenay Community Bat Project, we could get rid of the bats for them. Some residents admitted to killing bats with Raid, killing bats in the day time because they thought by seeing the bat they could get rabies, or exterminating entire colonies with car exhaust systems. These same residents, and countless others, were extremely grateful to have a resource that they could call to get advice on what to do about their bats.

After a site visit, residents either let the bats remain where they were, or agreed to put up a bat-house and seal the roost in winter months. With the new "BAT Management Services" company, some residents were willing to pay for roost modification services.

Another conservation issue that was identified during the project was the decommissioning of mines. One local resident reported:

30 to 40 years ago when we used to explore the Rossland mines before they were all bulldozed or blasted shut, we would often find bats hanging from the ceilings of tunnels. They were small, brown and usually in a very deep torpor.

Barry, Nelson

Inventorying mine sites before they are decommissioned is an important element in conserving bat populations in the Kootenays.

The Kootenay Community Bat Project continued to raise awareness about bats and engage communities in bat conservation. With almost 230 site visits conducted in the past two years, and numerous public events with high attendance, residents have been learning about the importance of bats. The increased number of reported roost sites is indicative of a higher awareness of the project and its goals. The project has involved volunteers in putting up posters, assisting with events, assisting with surveys, and monitoring roost sites. We hope that the continuation of this project will lead to further public involvement and awareness.

## Recommendations

### Methods/Approach

- 1) Continue to promote the approach of a community-based bat inventory method throughout the Columbia Basin, and further afield.
- 2) Continue the project in a larger geographic area (e.g. entire Kootenay region) next year.
- 3) Maintain a two-biologist field crew that encourages volunteer assistance.
- 4) Acquire a 1-800 number for roost reports, and work towards making this number available throughout BC.
- 5) Continue to collaborate with small businesses making and selling bat-houses.
- 6) Encourage landowners to monitor their bat colonies and collect and report data. Continue the Annual Bat Count to encourage community members to collect data on a specific date every year.
- 7) Provide school programs during winter months to continue education and awareness and encourage children to become involved.
- 8) Contact realtors, exterminators, roofers, house inspectors, and others who may encounter bats to make them aware of the project as a resource for them and landowners they assist.

9) Advertise the project phone number through the Pennywise and other local classifieds, as well as through articles.

#### Conservation

- 10) Develop plan for Townsend's bat-houses or modify an existing structure and install them in various locations, including the Galena Bay and Perry's Siding properties.
- 11) Collaborate with Ministry of Highways to enhance bridge roosting habitat by either providing rough siding (so bats can cling to it) or by installing bat-houses under or along the sides of bridges.
- 12) Collaborate with the Ministry of Energy, Mines and Petroleum Resources to ensure inventories for bats are conducted prior to mine closures and bat gates are used where this occurs.
- 13) Develop plaques or window stickers to recognize landowners who are conserving or enhancing bat habitat.

#### **Scientific**

- 14) Continue to examine the DNA of several bat species, especially that of little brown myotis and all long-eared myotis', to confirm the identification of these bats and to contribute to the broader understanding of bat species genetics.
- 15) Collect more detailed roost site information including temperature, humidity, structural dimensions, to better design successful roost sites.
- 16) Collaborate with Interior Health to acquire data on bat locations and rabies and histoplasmosis incidents so that project biologists maintain accurate and recent information.

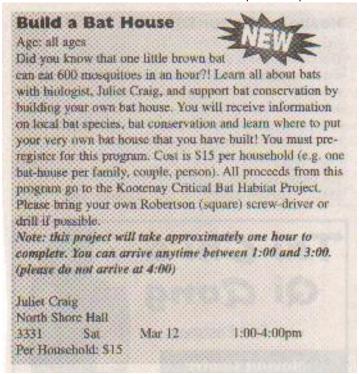
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## Appendix A: Bat Project Press Releases, 2005.

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Nelson & District Recreation Guide, March, 2005



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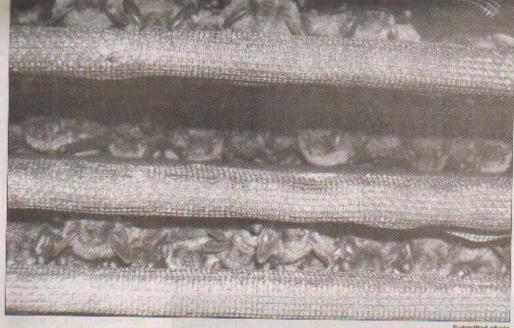


Kootenay Express, April 6, 2005

## Build a batty abode

Join Biologist Juliet Craig as she combines forces with the Slocan Valley Recreation Commission to present another day devoted to bats! On Sunday, April 17 from 11 a.m. to 3 p.m. come on out to the Winlaw Hall where you can build a bat house for a nominal fee and/or get an update on the Kootenay Community Bat Project (formerly known as the Slocan Valley Bat Project). The Winlaw Hall Society will be hosting a tailgate Garage Sale from 10:00 a.m. to 2:30 p.m. the same day. You must pre-register to build a bat-house so call Slocan Valley Recreation at 226-0008 by April 11 to make sure there are supplies for you. If you are wishing to partake in the Tailgate Garage Sale call Carey at 226-7702.

The Trail Times, May 13, 2005



Submitted photo

SIMPLY BATTY: Residents counted over 505 bats emerging from their bat-house in the Slocan Valley.

The Kootenay Community Bat Project is gearing up for another year of identifying local bat species, providing educational programs and workshops, and assisting landowners with bat issues.

There are 16 species of bats in B.C., and half of them are considered vulnerable or threatened.

Very little is known about bats and local biologists are trying to change that. Following up on the success

of the Slocan Valley Bat Project last year, the Kootenay Community Bat Project will be expanding its area to include the entire West Kootenay.

"We had amazing success last year," says Juliet Craig, outreach biologist for the project. "Residents were great for reporting their bats and allowing us come out to see them.

"We discovered over 75 roost sites, including important colonies of the rare Townsend's big-eared

During a site visit, biologists will bring a bat down (if possible) from the attic or barn for residents to have a close look at.

Because they have their rabies shots, biologists are able to safely handle bats, allowing them to identify them. They measure and weigh the bat, provide information about bats to landowners, and provide ideas for addressing concerns such as smell and noise

"Some people don't mind having bats in their buildings, while others are looking for methods to remove them," explains Craig. "We provide people with information and ideas for addressing their issues, whether that means leaving the bats where they are, or removing them from the roost site with as little impact as possible.

"We also encourage people to monitor their bat populations by letting us know when the bats are returning from hibernation, or leaving in the fall. This information is very valuable, since there is very little known about local bat species.

Funded by the Columbia Basin Trust, and supported by the Columbia Basin Fish and Wildlife Compensation Program, the Kootenay Community Bat Project is a leading example in North America of a community-based project that engages the commuencouraged to call the Kootenay Community Bat Project 352-2260 at OF kootenaybats@uniserve.com.

See www.kootenaybats.com for more information.

Kootenay Express, May 19, 2005

## Got Bats? Tell the Kootenay Community Bat Project



Biologists Juliet Craig and Mike Sarell gearing up for another year of identifying local bat species.

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"We had amazing success last year," says Juliet Craig. Outeach Biologist for the project. "Residents were great for reporting their bats and allowing us come out to see them. We discovered over 75 roost sites, including important colonies of the rare Townsend's big-eared bat."

Funded by the Columbia Basin Trust, and supported by the Columbia Basin Fish and Wildlife Compensation Program, the Kootenay Community Bat Project is a leading example in North America of a community-based project that engages the community in bat conservation, incorporates local knowledge in identifying roost sites, and works with landowners towards the conservation and enhancement of roost sites.

If you have bats living in your buildings, you are encouraged to call the Kootenay Community Bat Project at 352-2260 or email kootenaybats@uniserve.com. See www.kootenaybats.com for more information.

### Nelson Daily News, May 23, 2005

## Bat project builds off success and prepares for new season

WILDLIFE: Whether you love them or hate them, local project will inform you about the night creatures

The Kootenay Community Bat The Kootenay Community Bat Project (KCBP) is gearing up for another year of identifying local bat species, providing educational pro-grams and workshops, and assisting landowners with bat issues. There are 16 species of bats in B.C., and half of them are considered

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During a Site visit, biologists will bring a bat down (if possible) from the attic or barri for resident's to have a close look at. Because they have that exhibit schies docts blooking the side.

their rabies shots, biologists are able to safely handle bats, allowing them to identify them.

They measure and weigh the bat, provide information about bats to landowners, and provide ideas for addressing concerns such as smell and noise.

"Some people don't mind having bats in their buildings, while others are looking for methods to remove them," explains Craig.



Resident's counted over 505 bats emerging from their bat-house in the Slocan Valley. Whether you have problem bats or just want to find out more about them, the Kootenay Community Bat Project is at your service.

we provide people with informa-tion and ideas for addressing their issues, whether that means leaving the bats where they are, or removing them from the roost site with as little impact as possible. We also encour-age people to monitor their bat pop-ulations by letting us know when the bats are extracted. bats are returning from hibernation, or leaving in the fall. This informa-tion is very valuable, since there is very little known about local bat

Funded by the Columbia Basin Trust, and supported by the Columbia Basin Fish and Wildlife Columbia Basin Fish and Wildlife Compensation Program, the Kootenay Community Bal Project is a leading example in North America of a community-based project that engages the community in bat conservation, incorporates local knowledge in identifying roost sites, and works with landowners towards the conservation and enhancement of roost sites.

If you have bats living in your buildings, you are encouraged to call the Kootenay Community Bat Project at 352-2260 or email koote-naybats@uniserve.com. See www.kootenaybats.com for more information.

Juliet Craig is a Registered Professional Biologist with Silverwing Ecological Consulting.

Kootenay Express, May 25, 2005

## Breaking down bat fears

KOOTENAY COMMUNITY BAT PROJECT: Creatures of the night are nothing to fret over, on June 7 learn more about bats at a special day in Argenta

WINLAW - Residents of Argenta will be going batty on Tuesday, June 7, as they build bat-houses, enjoy an educational bat program, and see bats up close when the Kootenay Community Bat Project (KCBP) hosts "A Batty Day"

The KCBP is a community-based bat inventory and conservation project that is designed to identify local bat species, raise awareness about bats, and work with landowners to conserve roost sites. The project is hosting 'A Batty Day in Argenta' to raise awareness about local bat species, and encourage residents to build and install bat houses.

"Bats are very misunderstood and feared animals," says Juliet Craig, Outreach Biologist for the KCBP. "Through these community programs, we hope to raise awareness about bats, and encourage people to install bat-houses to provide roosting habitat."

On June 7, there will be a kids program on bats at 3:30 p.m. at the Argenta Community Hall, and from 4 to 6 p.m., residents can drop in to build their own bat-house. At 7 p.m., mist nets will be set-up to try to catch local bats so they can be identified and released

'It's a wonderful opportunity to



PHOTO SUBMITTED

Kids participating in a local bat-house building workshop last year.

learn more about local bats and see them up close," says Craig. "It will be a fun day, and everyone is welcome to attend.

To register to build a bat-house call Gwen at 366-0030. The cost for the bat-house building workshop is \$5 per family/household, and all other programs are free. Funding for the programs is provided by the

Columbia Basin Trust and the Kaslo and Argenta HomeLinks Program.

To find out more about the Kootenay Community Bat Project or to report bats living on your property, call 352-2260 or email kootenaybats@uniserve.com. See www. kootenaybats.com for more informa-

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## Nelson Daily News, August 15, 2005

## Rare bat found in the Nelson area

NELSON - A rare Townsend's big-cared bat was recently discovered roosting in Blewett near Nelson, and residents are encouraged to report bats living on their property.

Biologists from the Kootenay Community Bat Project have been searching for roost sites for two years to identify local bat species, raise awareness about bats, and work with landowners who have bats in their buildings. Recently, a local report of abandoned buildings led to the discovery of a lone Townsend's big-eared bat roosting in Blewett.

"This single Townsend's big-eared bat may mean that there is a maternity colony of females nearby," says Juliet Craig, Outreach Biologist for the project.

Outreach Biologist for the project.

"We are encouraging people to report bat roost sites to us to help us identify further roost sites of this bat and other rare species."

The KCBP began as the Slocan Valley Bat Project last year and has already identified over 100 bat roost sites, including a Yuma colony with approximately 1400 bats in the Slocan Valley. Residents are encouraged to



Townsend's Big-eared bats recently discovered in Blewett.

contribute to this project by reporting bats roosting (living) on their property.

Biologists can come to the roost site to identify the species, and will bring one down from the attic or barn for residents to see. Biologists also provide information on how to get bats out of your attic in a sensitive way.

"We are so encouraged by the support of residents to report their bats," says Craig. "With their support, we are gathering important information about the distribution of species. These data are valuable since few inventories of bats have ever been conducted in the West Kootenay area."

The Kootenay Community Bat Project, supported by the Columbia Basin Fish and Wildlife Compensation Program and funded by the Columbia Basin Trust and Habitat Conservation Trust Fund, also aims to raise awareness about bats. The project offers bat-house building workshops, public talks, and other events. Over 125 peuple attended a bat mist-netting night in Pass Creek Regional Park last weekend.

To find out more, go to www.kootenaybats.com or contact the KCBP at (250) 352-2260 or kootenaybats@uniscrve.com.

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## Kootenay Express, August 18, 2005

## Rare bat found in Nelson



Biologists from the Kootenay Community Bat Project have been searching for roost sites for two years to identify local bat species, raise awareness about bats, and work with landowners who have bats in their buildings. Recently, a local report of abandoned buildings led to the discovery of a lone Townsend's big-eared bat roosting in Blewett near Nelson. The KCBP began last year and has already identified over 100 bat roost sites. Residents are encouraged to contribute to this project by reporting bats roosting (living) on their property. Biologists can come to the roost site to identify the species, and will bring one down from the attic or barn for residents to see. Biologists also provide information on how to get bats out of your attic in a sensitive way. To find out more, go to www.kootenaybats.com or contact the KCBP at (250) 352-2250.

Nelson Daily News, September 10, 2005

## A NEW HOME FOR BATS

wilders needed to help out effort

SLOCAN VALLEY — A colony of Townsend's big-eared bats will be getting a new home this winter as an additional room is put onto a resident's house just for the bats.

Townsend's big-eared bats are a blue-listed (vulnerable) species that were first confirmed in the Slocan Valley last year by local biologists. One of the colonies identified is a small cluster of females living within a resident's house.

With few maternity colonies of this species known in the region, maintaining this group of Townsend's big-eared bats is an important element of this species' conservation in the Kootenays.

"It's quite amazing that this group of bats is living where they are, since the building is both a residence and a small theatre," says Juliet Craig, Outreach Biologist with the Kootenay Community Bat Project (KCBP). "This species is quite vulnerable to disturbance, yet this group of females hangs out even while there are dance parties, theatre productions, and other large events."

One strategy to encourage the conservation and expansion of the colony is to provide the bats with their own space. Unlike other bat species, Townsend's big-eared bats don't live in small crevices so typical bat-houses won't work. Instead, these bats require large open cavities. The KCBP has successfully acquired funding from the Habitat Conservation Trust Fund to build an

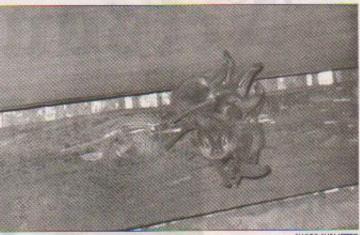


PHOTO SUBMITTED

Small cluster of female Townsend Big-eared bats and their pups who are awaiting a new roost.

additional room to the house just for the bats.

"The idea is to provide a small private room perched on the roof of the house that the bats can fly into for privacy and quiet," explains Craig. "In other parts of North America, limiting disturbance for these bats has resulted in larger colonies. For example, in the United States a small group of Townsend's big-eared bats had been roosting above a horse concession for years. When the concession was closed and the building became quiet, the colony grew from 10 to 70 bats. We are hoping something similar will happen with this colony."

The small room addition will be built in October when the bats have left to hibernate. Like most local bat species, Townsend's big-eared bats hibernate in local mines and caves, leaving the buildings where they roost during the summer.

The Kootenay Community Bat Project is seeking volunteers with carpentry skills to help with these renovations. Funds are available for supplies and materials, but not for labour, so the project is relying on the generosity and interest of residents to help with this renovation.

It's a wonderful opportunity to do something concrete and productive for our local species at risk' says Craig. "Carpenters or handy-people are encouraged to participate by offering a few hours of their time to help build this unique structure and support this community initiative."

Funded by the Columbia Basin Trust, the Kootenay Community Bat Project is a community-based initiative to raise awareness about bats, identify local bat species, and work with landowners who have bats in their buildings.

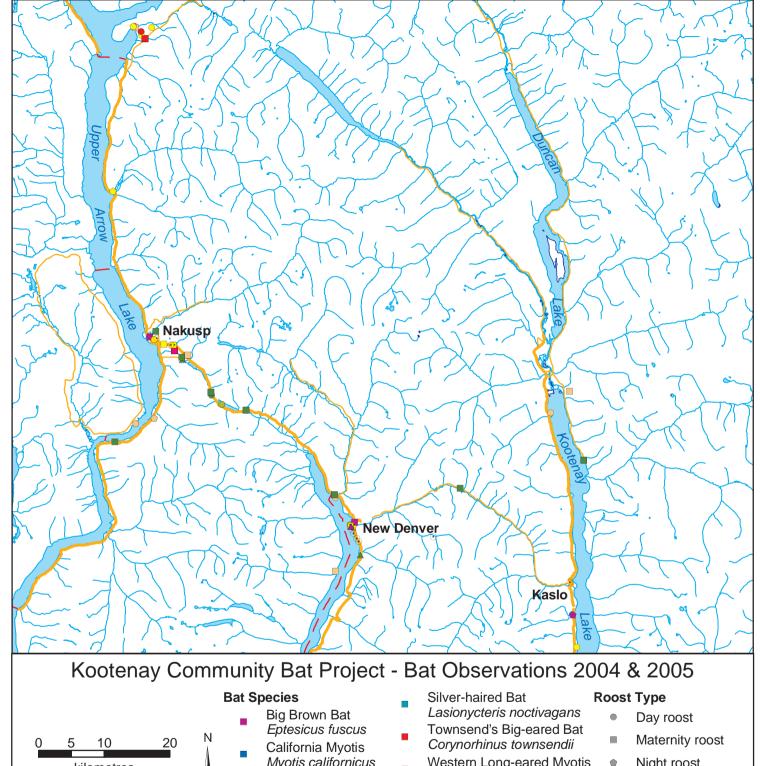
For more information on the Kootenay Community Bat Project, call Juliet Craig at 352-2260 or see www.kootenaybats.com. To volunteer your carpentry skills to build the new "bat room", please call Angela at 355-0010.

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## The Province, October 10, 2005



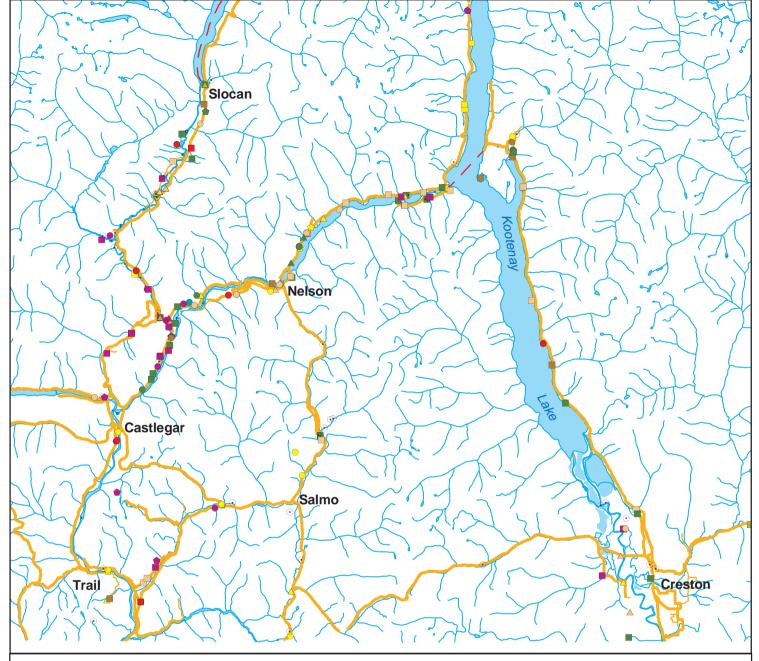
Appendix B: Maps of roost site locations, 2004 & 2005.



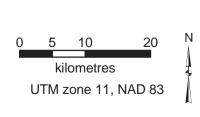
## kilometres UTM zone 11, NAD 83

- Myotis californicus
- Little Brown Myotis Myotis lucifugus
- Long-legged Myotis Myotis volans
- Western Long-eared Myotis Myotis evotis
- Yuma Myotis Myotis yumanensis
- **Unidentified Myotis** Myotis sp.
- Unidentified Bat

- Night roost
- Incidental Sighting
- No Bats Observed



## Kootenay Community Bat Project - Bat Observations 2004 & 2005



## **Bat Species**

- Big Brown Bat Eptesicus fuscus
- California Myotis

  Myotis californicus
- Little Brown Myotis Myotis lucifugus
- Long-legged Myotis Myotis volans
- Silver-haired Bat Lasionycteris noctivagans
- Townsend's Big-eared Bat Corynorhinus townsendii
- Western Long-eared Myotis Myotis evotis
- Yuma Myotis
  Myotis yumanensis
- Unidentified Myotis *Myotis sp.*
- Unidentified Bat

## **Roost Type**

- Day roost
- Maternity roost
- Night roost
- Incidental Sighting
- No Bats Observed

