



OKANAGAN SMALL MAMMAL CONSERVATION PRIORITIES

Presented by Orville Dyer
Coordinator for Bats and White-nose Syndrome Response
Ministry of Forests, Lands, Natural Resources and Rural
Development

SOSCP Science and TEK forum
February 20, 2019



OVERVIEW

- What is the issue?
- What research was done?
- What are the results?
- Who needs to know?
- What needs to be done?



Harvest Mouse by Andy Teucher



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WHAT ARE THE RESULTS?

Small Mammal Management and Conservation in British Columbia: Assessment of Knowledge Gaps and Research Needs



by
David Nagerson
Mammalia Biological Consulting



Ministry of Environment and Climate Change Strategy
Victoria, B.C.

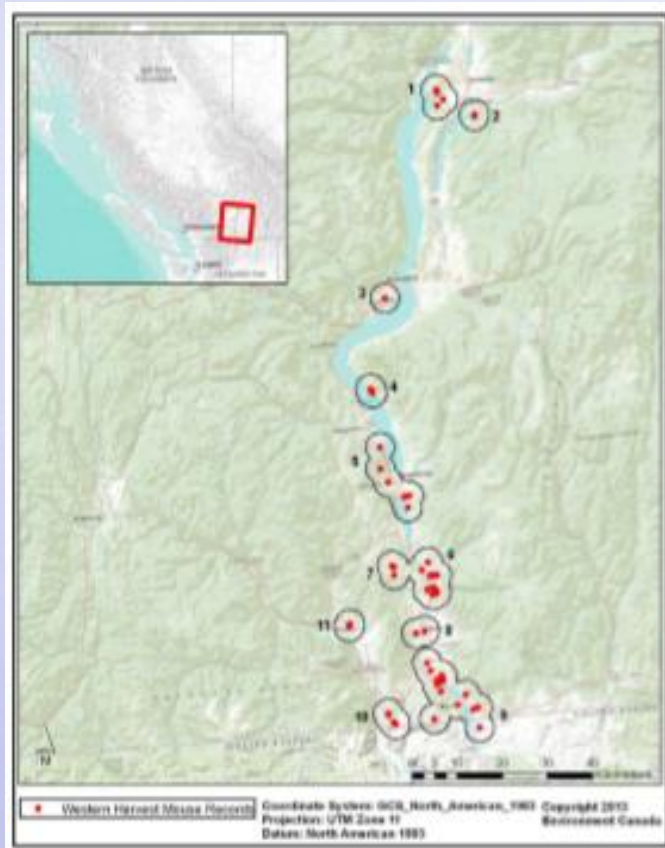
Wildlife Bulletin No. B-127
March 2016



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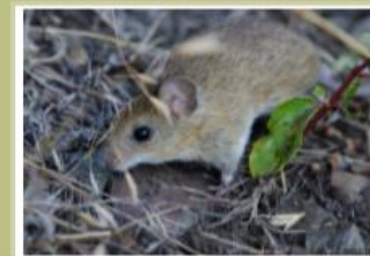
WESTERN HARVEST MOUSE (MEGALOTIS SUBSPECIES) SPECIAL CONCERN IN CANADA, S3-BLUE LISTED IN BC



Species at Risk Act
Management Plan Series
Adopted under Section 69 of SARA

Management Plan for the Western Harvest
Mouse *megalogotis* subspecies (*Reithrodontomys*
megalogotis megalotis) in Canada

Western Harvest Mouse, *megalogotis* subspecies



2015



Government
of Canada

Gouvernement
du Canada

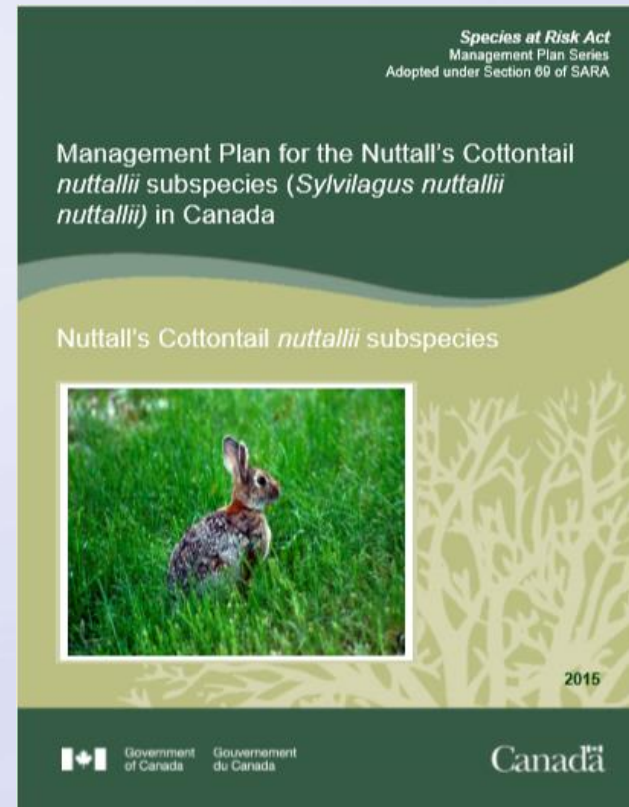
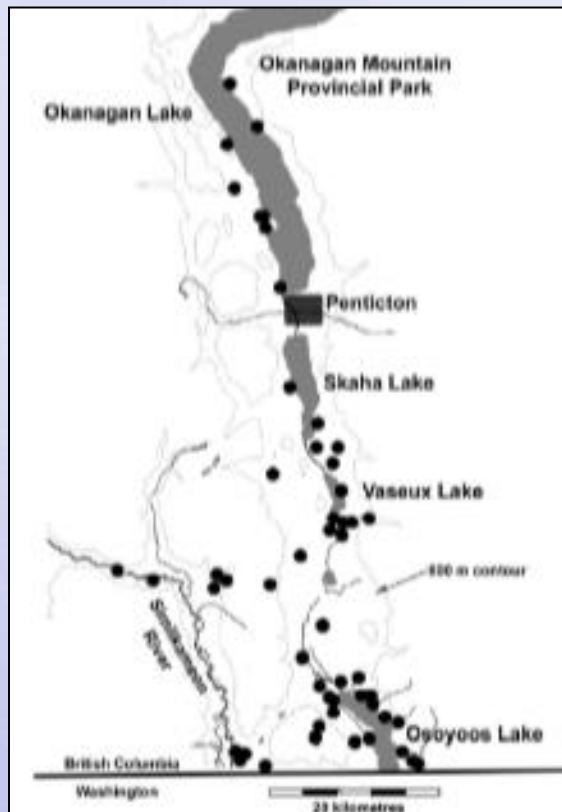
Canada



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NUTTALL'S COTTONTAIL (*SYLVILAGUS NUTTALLII*) SPECIAL CONCERN IN CANADA, S3-BLUE LISTED IN BC

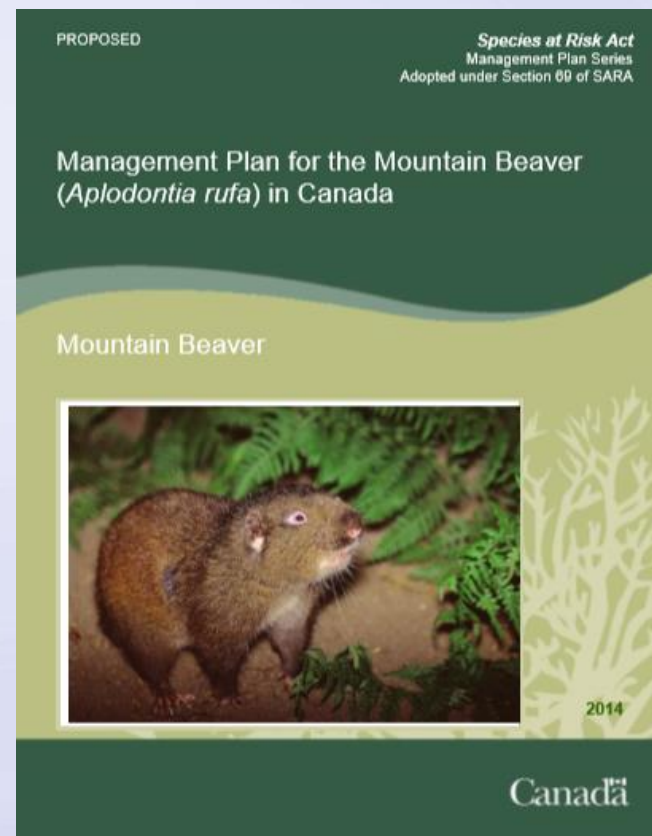
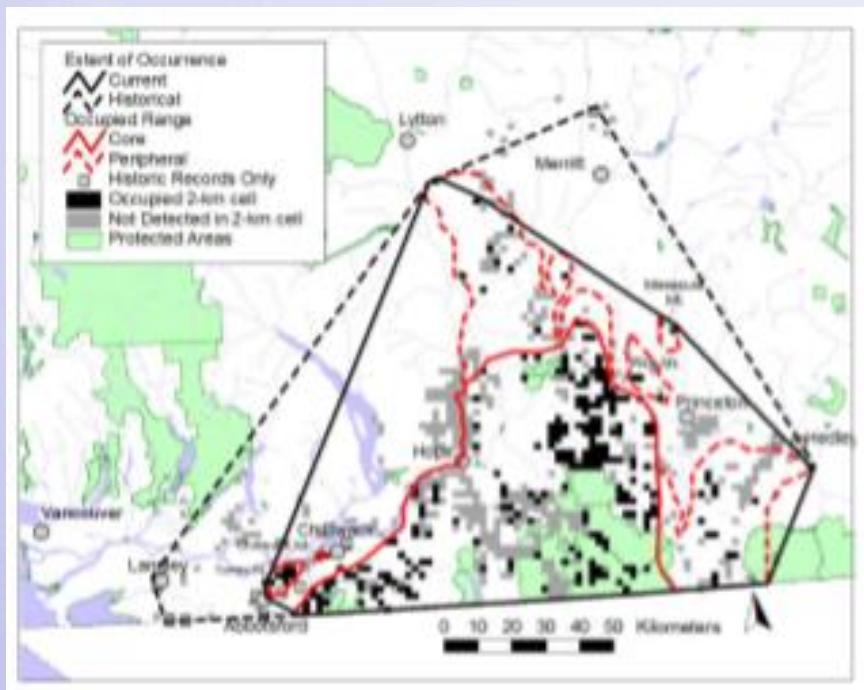




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MOUNTAIN BEAVER (*APLODONTIA RUFA*) SPECIAL CONCERN IN CANADA, YELLOW LISTED IN BC

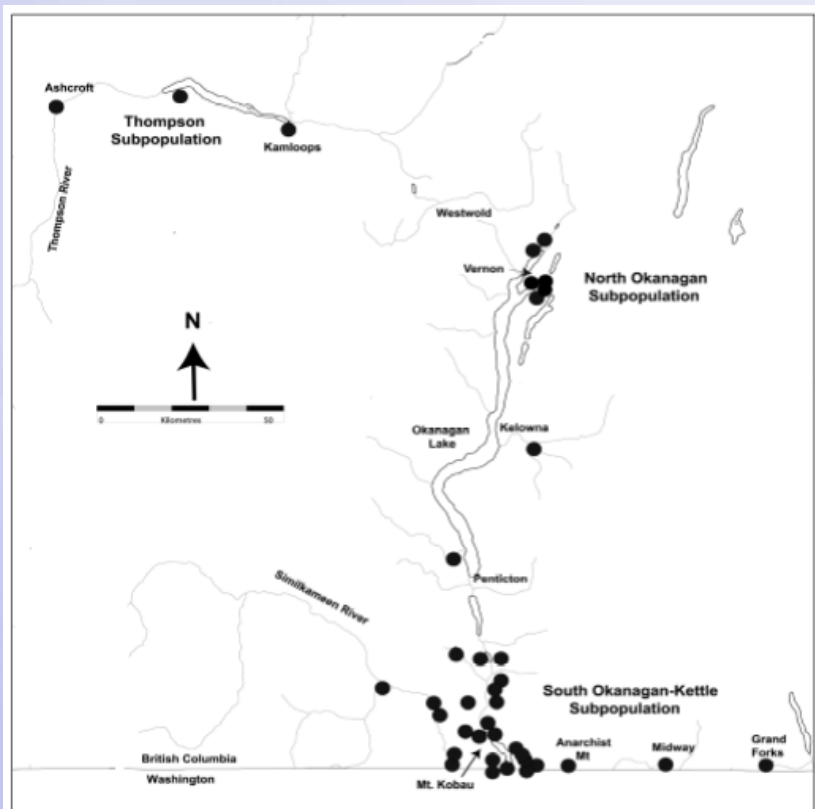




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COLUMBIA PLATEAU POCKET MOUSE COSEWIC HIGH PRIORITY CANDIDATE, S3 BLUE LIST



STATUS OF THE GREAT BASIN POCKET MOUSE (*Perognathus parvus*) IN BRITISH COLUMBIA

by
D. Nagoren



Illustration © Michael Haines



Ministry of
Environment

Victoria, BC

Wildlife Working Report No. WR 117
March 2004



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MERRIAM'S SHREW S1 RED LIST





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PREBBLES'S SHREW S1 RED LIST





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BATS



BC Bat Action Team

2016 - 2020 Action Plan

In Response to the Threat of White-nose Syndrome



Status of BC Bats

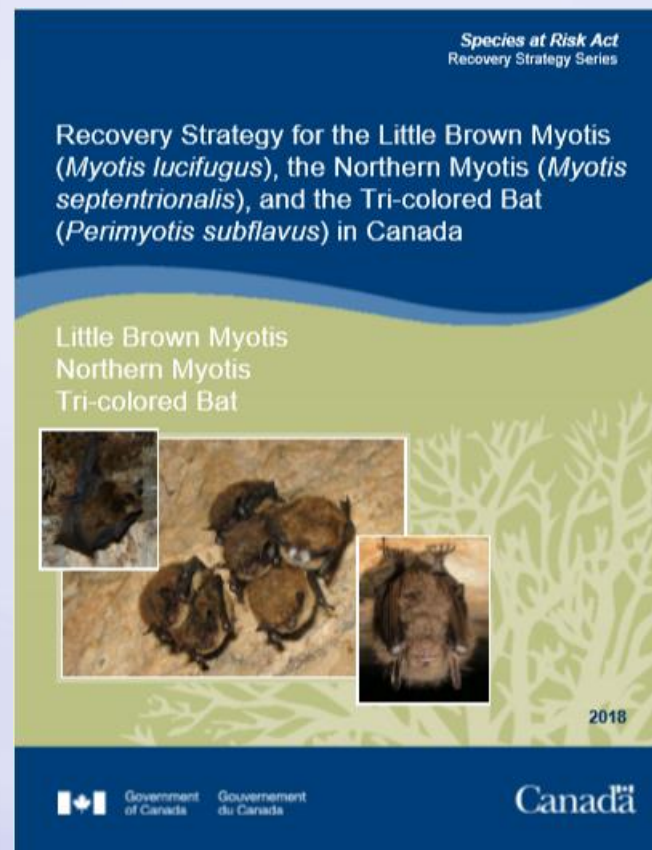
English Name	Prov Stat	COSEWIC	BC List	SARA	In Canada, found only in BC	WNS susceptibility
Little Brown Myotis	S4	E (Nov 2013)	Yellow	1-E (Dec 2014)		Yes-decline
Northern Myotis	S3S4	E (Nov 2013)	Blue	1-E (Dec 2014)		Yes-decline
Pallid Bat	S2	T (Nov 2010)	Red	1-T (Jun 2003)	Yes	Unknown
Spotted Bat	S3S4	SC (Nov 2014)	Blue	1-SC (Jul 2005)	Yes	Unknown
Fringed Myotis	S3	DD (May 2004)	Blue	3 (Mar 2005)	Yes	Unknown
Townsend's Big-eared Bat	S3S4		Blue		Yes	Pathogen-not disease
Western Small-footed Myotis	S2S3		Blue			Pathogen-not disease
Silver-haired Bat	S4S5		Yellow			Pathogen-not disease
Hoary Bat	S4S5		Yellow			Unknown
Californian Myotis	S4S5		Yellow		Yes	Likely at Risk
Long-eared Myotis	S5?		Yellow			Likely at Risk
Long-legged Myotis	S4S5		Yellow			Yes
Big Brown Bat	S5		Yellow			Yes-moderate decline
Yuma Myotis	S5		Yellow		Yes	Yes-decline
Eastern Red Bat	SU		Unknown			Pathogen-not disease
Mexican Free-tailed Bat	SNA		Accidental		Yes (potentially)	Pathogen-not disease
Canyon Bat	SNA		Accidental		Yes (potentially)	Unknown
Big Free-tailed Bat	SNA		Accidental		Yes (potentially)	Unknown



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LITTLE BROWN MYOTIS ENDANGERED IN CANADA, S4 YELLOW LISTED IN BC

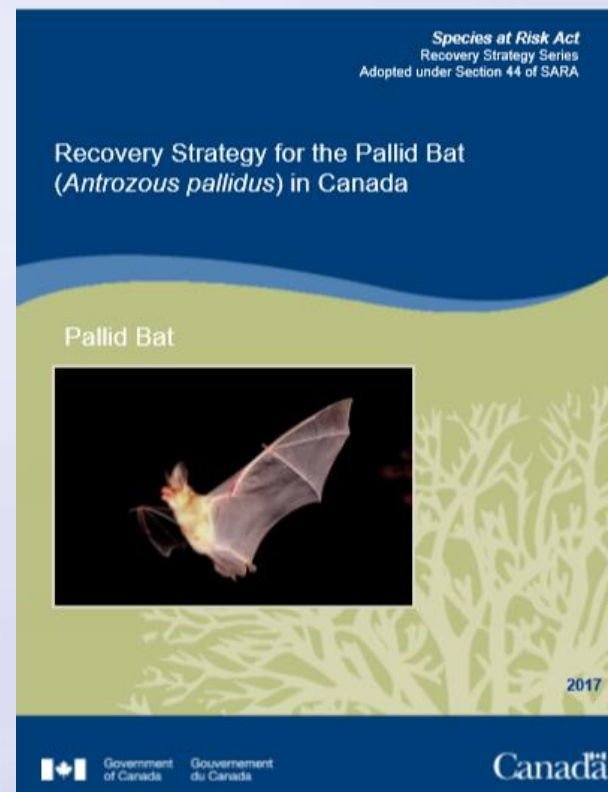
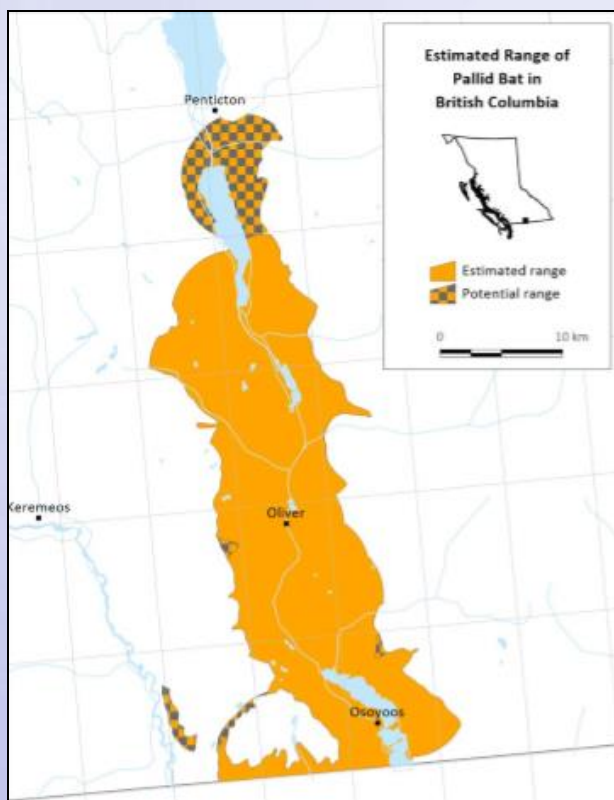




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PALLID BAT *THREATENED IN CANADA, S2 RED LISTED IN BC*

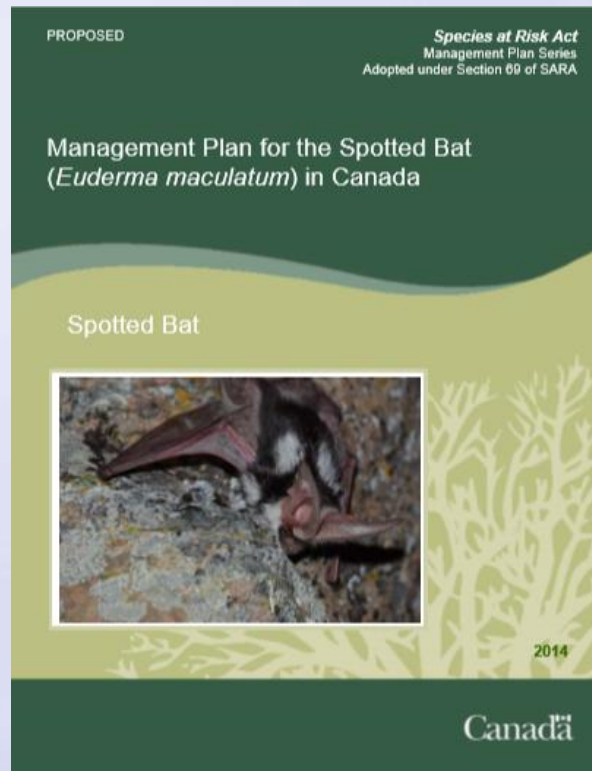
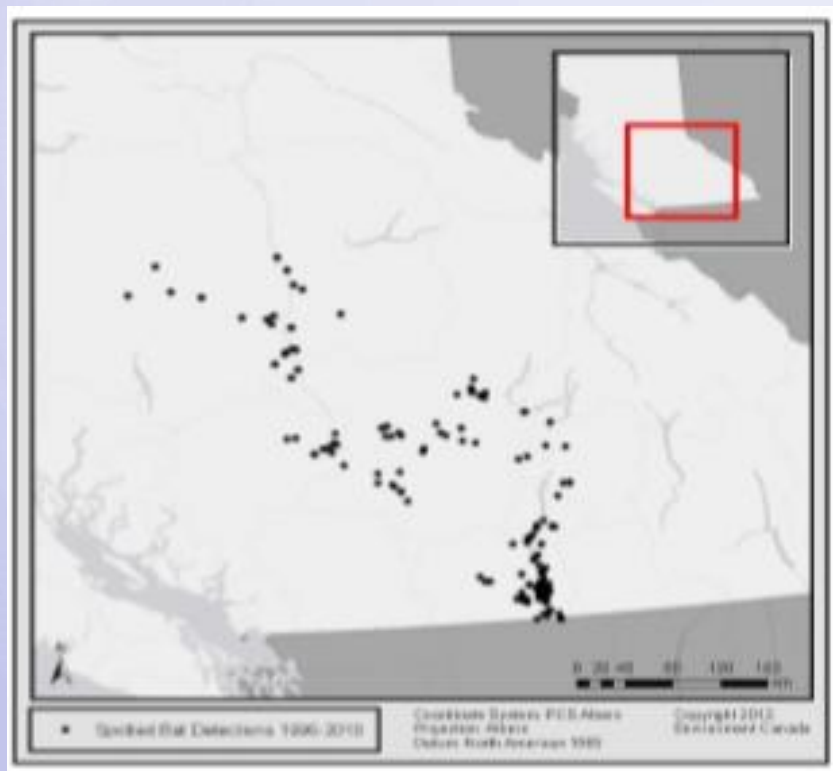




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SPOTTED BAT SPECIAL CONCERN IN CANADA, S3S4 BLUE LISTED IN BC

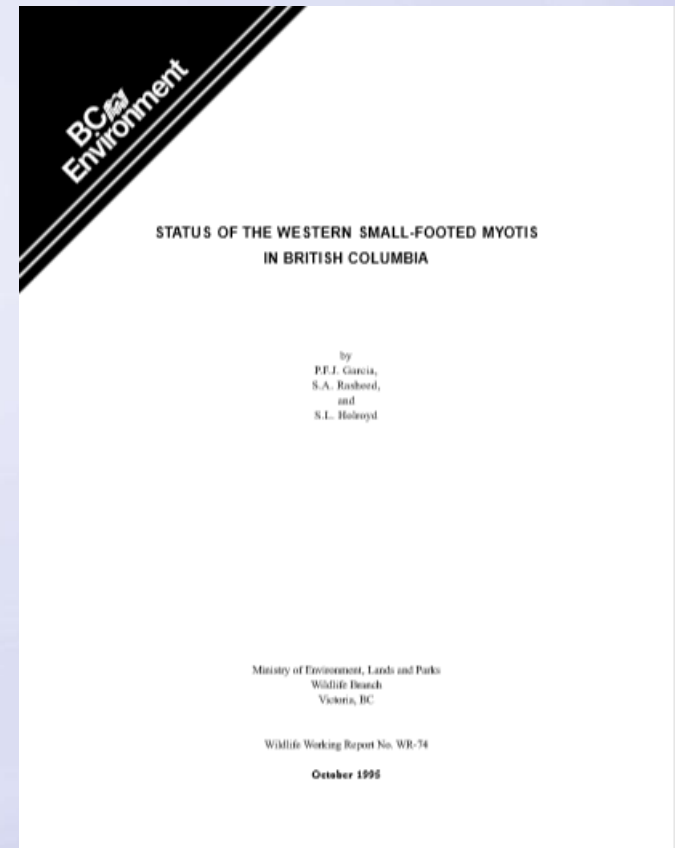
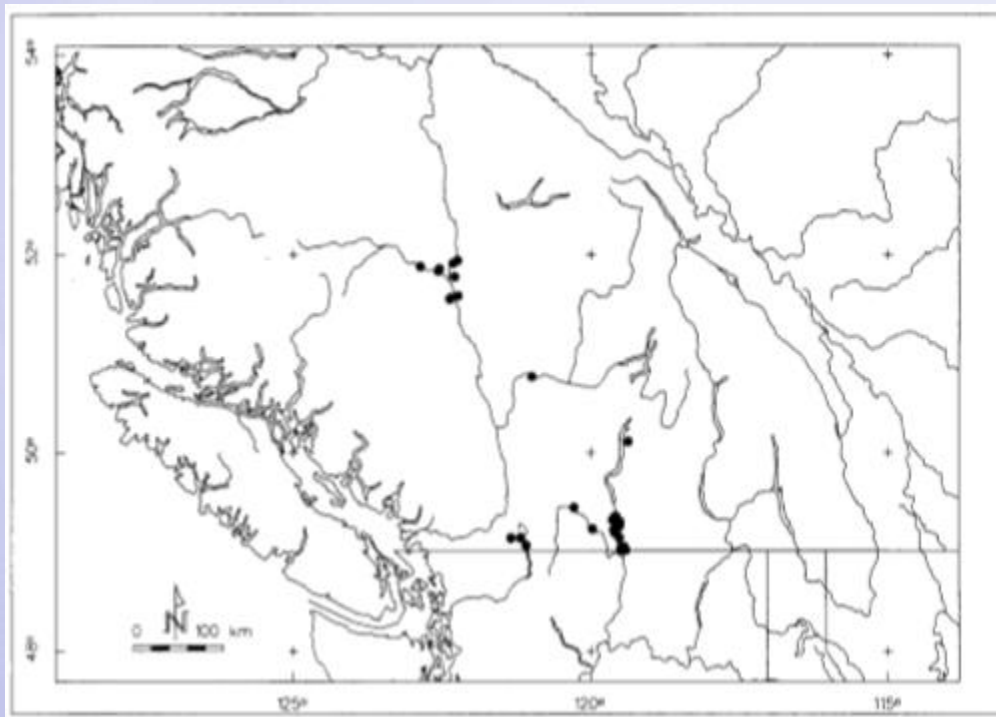




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WESTERN SMALL FOOTED MYOTIS (S2S3 BLUE LISTED)

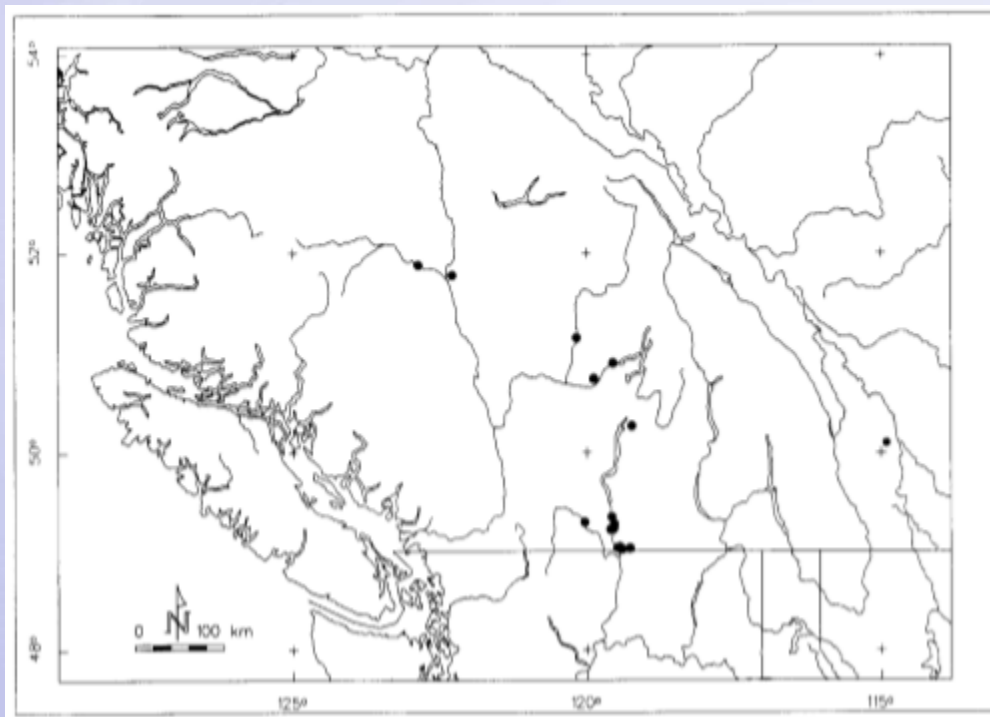




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FRINGED MYOTIS (S3 BLUE LISTED)



BC
Environment

STATUS OF THE FRINGED MYOTIS IN BRITISH COLUMBIA

by
S.A. Bachard,
P.F.J. Garcia,
and
S.L. Holroyd

Ministry of Environment, Lands and Parks
Wildlife Branch
Victoria, BC

Wildlife Working Report No. WR-73

October 1995



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TOWNSEND'S BIG-EARED BAT (S3S4 BLUE LISTED)



Townsend's Big-eared Bat: Patrick Burke photo - South Coast Bat Conservation Society



WHAT CAN YOU DO – WHITE-NOSE SYNDROME?

1. Report dead bats in winter to Community bat program
2. Avoid accidental relocations
3. Follow decontamination protocols
4. Follow best practices (BC and Community Bat Program)
1 855 922-2287 ext 24 or info@bcbats.ca
5. Establish your city as a Bat Friendly Community
6. Participate in the Annual Bat Count



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All Things Bats!

BAT MATTERS: CHIROPTERA CONFERENCE

Let's work together to #SaveTheBats
REGISTRATION OPENS: FEBRUARY 15th, 2019
CONFERENCE DATES: APRIL 12th & 13th, 2019

FRIDAY NIGHT REGISTRATION WITH WINE & CHEESE - Tour Peachland's Historic Schoolhouse, home to BEEPS and their 2000 furry friends inhabiting the awe-inspiring attic roost, then view the wondrous site of their nightly foraging.

SATURDAY MORNING - Rise and shine for a Bat House Interpretive Trail walk followed by a hearty breakfast and a fun-packed day of Bat Matters and networking!!

SATURDAY EVENING - Recapping the day's events over a robust feast at Gasthaus on the Lake Restaurant. German cuisine at its finest with many delicious options.

SUNDAY DROP IN FAREWELL at the Peachland Visitor Centre from 9 AM - 10 AM. Leave with FULL MINDS, IMAGINATIONS and INSPIRATION!

*Some speakers breakfast, lunch and welcome break are included

peachlandbats@gmail.com

250-767-2455



CONCLUSION

1. Increase awareness
2. Increase inventory
3. Consider in environment assessments
4. Consider disturbed habitats
5. Protect habitats and connectivity
6. Reduce threats from development, roads, cats



THANK YOU!

Orville Dyer

Biologist

Ministry of Forests, Lands, Natural Resources and Rural Development

orville.dyer@gov.bc.ca

250-490-8200



REFERENCES: RODENTS AND SHREWS

- Small Mammal Management and Conservation in BC: <http://a100.gov.bc.ca/pub/eirs/finishDownloadDocument.do?subdocumentId=10871>
- Western Harvest Mouse Management Plan: https://www.registrelp-sararegistry.gc.ca/virtual_sara/files/plans/mp_western_harvest_mouse_megalotis_e_proposed.pdf
- Nuttall's Cottontail Management Plan https://www.registrelp-sararegistry.gc.ca/virtual_sara/files/plans/mp_nuttall%27s_cottontail_e_final.pdf
- Mountain Beaver Management Plan: https://www.registrelp-sararegistry.gc.ca/virtual_sara/files/plans/mp-mountain-beaver-v01-2014May27-proposed-e.pdf
- Mountain Beaver Best Practices:
[http://a100.gov.bc.ca/appsdata/acat/documents/r55777/2015MountainBeaver BMP Merritt Final Sept2015_1548702543895_8702248274.pdf](http://a100.gov.bc.ca/appsdata/acat/documents/r55777/2015MountainBeaver_BMP_Merritt_Final_Sept2015_1548702543895_8702248274.pdf)
- Pocket Mouse Status BC: <http://a100.gov.bc.ca/pub/eirs/finishDownloadDocument.do?subdocumentId=7786>
- Shrew hair tubes Pocock and Jennings 2006) : <https://onlinelibrary.wiley.com/doi/full/10.1111/j.1365-2907.2006.00092.x>



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- Recovery Strategy for Little Brown Myotis: https://www.registrelep-sararegistry.gc.ca/virtual_sara/files/plans/rs_little_brown_myotis_northern_myotis_tri_colored_bat_e_final.pdf
- Recovery Strategy for Pallid Bat: https://www.registrelep-sararegistry.gc.ca/virtual_sara/files/plans/rs_pallid_bat_e_final.pdf
- Recovery Strategy for Spotted Bat: https://www.registrelep-sararegistry.gc.ca/virtual_sara/files/plans/mp_spotted_bat_e_proposed.pdf
- White-nose syndrome decontamination: <https://www2.gov.bc.ca/gov/content/environment/plants-animals-ecosystems/wildlife/wildlife-health/wildlife-diseases/white-nose-syndrome>
- Best Management Practices for Bats in BC: <http://a100.gov.bc.ca/pub/eirs/viewDocumentDetail.do?fromStatic=true&repository=BDP&documentId=12460>
- BC Community Bat Program: <https://www.bcbats.ca/>
 - Annual Roost Count: <https://www.bcbats.ca/index.php/get-involved/participate-in-the-bc-bat-count>
 - Bat Friendly Communities: <https://www.bcbats.ca/index.php/get-involved/bat-friendly-communities>
- Status of Western Small-footed Myotis in BC: <http://a100.gov.bc.ca/pub/eirs/finishDownloadDocument.do?subdocumentId=1247>
- Status of Fringe Myotis in BC: <http://a100.gov.bc.ca/pub/eirs/finishDownloadDocument.do?subdocumentId=1208>