MSES

Management and Solutions in Environmental Science

www.mses.ca

WILDLIFE CLASSROOM & FIELD SKILLS TRAINING WORKSHOPS 2021

MSES Training

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Become an Environmental Monitor	Learn ecological principles and common survey protocols that are needed as an environmental scientist and monitor.
Build Community Capacity	Deepen your understanding of the environment and acquire skills that can be used at many environmental jobs.
Flexible Training Programs	We design our training programs to meet your budget and logistical needs. Our programs can be catered to all ages and learning levels.
Have a Research Question?	We can help you design and carry out a study to answer your environmental questions.

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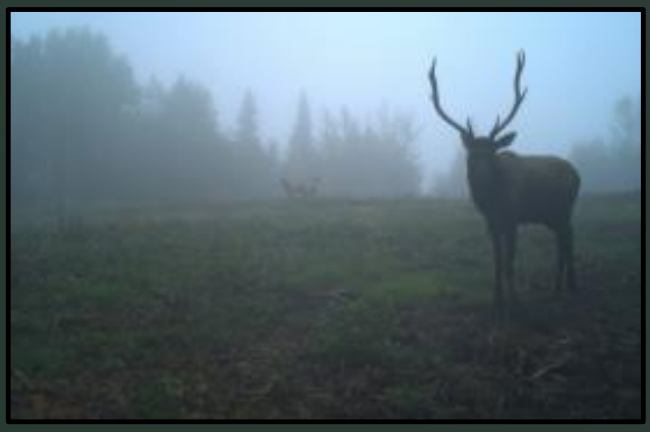
WORKSHOP DESCRIPTIONS

Wildlife Camera Surveys

Set-up, Maintain, and Download Data



Description

- Wildlife cameras are an effective tool to evaluate:
  - wildlife presence and abundance. Ongoing monitoring allows for detection of change in wildlife measures.
  - wildlife use between different habitats and landscape features or disturbances.
  - behaviour and population structure for multiple species simultaneously.
- We provide in-person training on remote camera set-up, maintenance, data download, and data processing.
- We provide assistance with project design to ensure your objectives are met and the design principles lead to a successful outcome.
- We can work with you to interpret results to ensure a fulsome understanding of the outcomes.

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WORKSHOP DESCRIPTIONS

Environmental DNA (eDNA) Surveys

Sampling methods and interpreting results

Description

- eDNA refers to the DNA left by living organisms in the surrounding environment.
- eDNA is an efficient and non-invasive sampling method which can be integrated into any community-based monitoring program.
- We provide in-person training on how to collect eDNA samples that are then submitted for laboratory analysis.
- We provide assistance with project design to ensure your objectives are met and the design principles lead to a successful outcome.
- We can work with you to interpret laboratory provided results to ensure a fulsome understanding of the outcomes.

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WORKSHOP DESCRIPTIONS

Wildlife Surveys

Sampling methods and techniques

Description

- Wildlife survey approaches are geared toward the species or species group of interest to you.
- We provide in-person training in multiple wildlife survey methods, such as:
  - Waterfowl Auditory and Visual Surveys
  - Songbird Point Count Surveys
  - Amphibian Auditory and Visual Surveys
  - Owl Auditory Surveys
  - Winter Snow Tracking Surveys
  - Pellet Group / Scat Surveys
- We provide information on how to design your sampling program to answer your specific questions.

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WORKSHOP DESCRIPTIONS

CABIN Program

Invertebrates and Water Sampling Methods

Description

- The Canadian Aquatic Biomonitoring Network (CABIN) program is used to assess the health of fresh water ecosystems. Data from your watershed is compared to established reference sites to measure impacts and the severity of those impacts in your watershed.
- We provide in-person training. You will learn:
  - How to collect benthic macroinvertebrates
  - How to collect water samples
  - How to characterize streams
- MSES will provide project management and data analysis services through the CABIN program.

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WORKSHOP DESCRIPTIONS

Basics of Field Work

Equipment and Logistics

Description

- The success of any field program hinges on being prepared with the appropriate equipment and gear.
- MSES team members will provide instruction on:
  - Use of compass, maps, and GPS units.
  - Data collection approaches, such as tablets, smart phones, data cards.
  - The basics of data management.
  - Basic safety equipment and procedures.
  - Field gear for success and comfort.
- MSES team members can also provide background on the western scientific method and personal insights and approaches to integrating Indigenous perspectives and western science.

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