

# Integrated Pest Management Protocol For Thompson Rivers University

- Kamloops campus



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Based on the current sustainability standards and existing grounds maintenance guidelines at Thompson Rivers University (TRU), an Integrated Pest Management (IPM) protocol for the Kamloops campus follows a structured, four-tiered approach. This protocol prioritizes human health and the sensitive semi-arid ecosystem of the Thompson Valley. This IPM protocol approach is discussed in [TRU's Campus Strategic Sustainability Plan](#) (see page 38, section 1.3, Campus Grounds).

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## 1. Action Thresholds

Before any pest control action is taken, a threshold must be met. A "pest" is only managed when its population or the damage it causes poses a significant risk to campus safety, building integrity, or the survival of high-value landscape assets.

- **Health & Safety:** Zero-tolerance for pests like wasps near building entrances or rodents in food service areas.
- **Economic/Aesthetic:** For ornamental gardens (e.g., the [Horticulture Garden](#) managed by the [TRU Horticulture Program](#)), action is only taken if the pest threatens the long-term survival of the plant material.
- **Nuisance:** Minor weed growth in non-critical areas or "naturalized" zones does not trigger action.

## 2. Monitoring and Identification

Accurate identification ensures that "beneficial" organisms (like pollinators or predatory insects) are not harmed.

- **Routine Inspections:** Grounds staff perform regular walkthroughs of campus zones, including "grass land, forest area, lawn, and trail" sections.
- **Pest Logs:** Sightings are recorded to track seasonal trends, such as the emergence of specific invasive weeds or localized insect outbreaks.
- **Collaboration:** TRU utilizes its own academic expertise, involving instructors, students and volunteers from a variety of departments and organizations to help identify complex ecological issues (e.g. those from [Natural Resource Science](#), [and TRU Friends of the Garden](#)).

## 3. Prevention

Prevention is a vital step in the IPM protocol. By removing the conditions that attract pests, the need for intervention is minimized.

- **Landscaping Choices:** Selecting drought-tolerant, pollinator-friendly, and pest-resistant native species suitable for the Kamloops climate.
- **Regular Practices:** Proper irrigation programming, mulching to suppress weeds, and aeration to maintain turf health.
- **Structural Maintenance:** Sealing cracks in building envelopes (exclusion) and managing exterior waste/recycling to eliminate food sources for rodents.
- **Infrastructure:** Gravel-covered areas are systematically paved to reduce weed habitats as funding becomes available.

## 4. Control/Treatment

If thresholds are exceeded and prevention fails, TRU follows a "least-toxic first" hierarchy.

Step	Method	Examples at TRU
<b>1. Mechanical</b>	Physical removal	Manual weeding, line trimming, and non-chemical traps.
<b>2. Biological</b>	Natural enemies	Encouraging beneficial insects or using biological controls for invasive species.
<b>3. Cultural</b>	Habitat alteration	Hydro-seeding natural areas to promote cover crops that outcompete weeds.
<b>4. Chemical</b>	Targeted application	<b>Last resort.</b> Use of targeted, least-toxic pesticides only when survival of plant material is threatened.

**Note on Chemical Use:** TRU has abandoned the historical practice of "blanket-spraying" large areas. Any chemical application must strictly adhere to the [B.C. Integrated Pest Management Act](#) and federal regulations.

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### Implementation Responsibility

The [TRU Grounds Maintenance Department](#) is responsible for the daily execution of this protocol, ensuring the campus remains a "healthy urban ecosystem" as outlined in the university's strategic goals.

Comments or Questions can be directed to: [facilities@tru.ca](mailto:facilities@tru.ca)