



## CN's Annual Vegetation Management Program - FAQs

- **Why does CN need to remove vegetation along its train tracks annually?**

At CN, safety is a core value. Part of maintaining and operating a safe railway is ensuring vegetation is managed along our corridors. CN adheres to requirements as per the Code of Federal Regulations, Title 49, Section 213.321 of the regulations require; "vegetation on railroad property which is on or immediately adjacent to roadbed shall be controlled." More specifically, the Regulations require federal railways to ensure the track is free of vegetation that could create fire hazards, affect the track integrity or obstruct visibility of operations and inspections. Regulations also require removal of vegetation to ensure every grade crossing meets sightline requirements.

- **Where does CN remove vegetation?**

For the purposes of vegetation control, CN divides its rail lines into two components: the ballast section and the right-of-way. The ballast section (graveled area) covers a 28ft width. The right-of-way section covers a 36ft width on each side of the ballast section. Vegetation in the right-of-way section needs to be controlled to protect sight lines for train crews to see signal systems and at road crossings, prevent trees from fouling the track during storms, reduce fuel loading to prevent fires, minimize wildlife mortality, ensure good drainage along ditches and culverts, amongst other safety requirements and is primarily controlled mechanically, by mowing and cutting of vegetation. Certain herbicide products are used (excluding glyphosate) to encourage grass rather than tall shrubs and trees.

The ballast section, on the other hand, is the most critical area as it supports the track infrastructure that supports the movement of freight and passengers and provides an area for train crew to safely inspect their train. Given the crucial role it plays in ensuring the safety and integrity of rail operations, this section must be clear of all vegetation.

The only proven way to effectively completely remove vegetation in the ballast section is through chemical application.

- **How will you manage dry plants and herbs left once the spraying is complete?**

Ensuring vegetation is controlled on an annual basis is the best method to reduce larger volumes of dead and dry plants. This is because it eradicates vegetation before it grows, reducing the amount of dead plant material. CN's program has been developed specifically with this in mind. Most vegetation, once dead, will naturally decay and leave little debris.



- **What herbicides will CN be using?**

The choice of chemicals used depends on the specific plants targeted. All pesticides used in the US are approved for use in the US and the state in which they are applied.

- **Will you be using Glyphosate? If so, is it dangerous for us or my pets?**

All pesticides CN uses in the US are registered by the Environmental Protection Agency (EPA) and have been approved for use in the state in which they are applied. Protection of human health and the environment is the EPA's primary objective in the regulation of pesticides and all pesticides must undergo rigorous science-based assessments before being approved for sale in the US. The EPA also re-evaluates registered pesticides on a cyclical basis to ensure they continue to meet modern health and environmental standards. CN's vegetation control contractor uses glyphosate in accordance with label directions.

- **Has CN tried any non-chemical weed control options in the past, such as weed whacking? Have they worked?**

CN has used weed cutting in the past to control vegetation, but this does not remove the roots and actually encourages more growth. It is not an effective long-term solution for vegetation removal along railway tracks. The application of steam injection has also been investigated; however it has proven ineffective in killing the roots, which, if left to continue growing, could compromise the integrity of the rail bed, causing unsafe operating conditions.

CN has also explored other options, such as high concentrate vinegar (acetic acid), however this was deemed not to be a viable option as the acid reacts negatively with steel and the sensitive electronic monitoring equipment used to regulate safe movement and operation of our trains.

- **I am an organic farmer adjacent to your tracks, should I be worried?**

Most of the vegetation control focuses on the ballast section (graveled area) which is 28 feet wide, leaving about 36 feet of right-of-way on each side of the ballast. The equipment used for application is a shrouded boom which focuses the spray downward to reduce potential drift. Application must also be done during appropriate weather conditions, including low wind levels.

- **Many properties back onto the railway. Are the risks of using EPA approved herbicides low enough to use in proximity to people and pets?**

All pesticides used in the US must be registered by the Environmental Protection Agency (EPA). CN only uses pesticides on CN lands and that have been approved for use in the



US by the EPA and the state in which they are applied. A reminder to everyone that no one except authorized employees and contractors, may enter CN lands including yards, along the tracks and the right-of-way at any time. There is minimal risk of herbicide exposure when keeping off of all CN lands.

- **Can I request my area not be sprayed?**

At CN, safety is a core value. Vegetation control is a key component of keeping our employees and the communities in which we operate safe. Ensuring vegetation is kept clear of our infrastructure, signals, road crossing sight lines and enabling our teams to inspect and maintain the track is critically important. As a result, all areas of the CN ballast section will be treated to control vegetation.