



**Minneapolis**  
Park & Recreation Board

# **Glyphosate Use in Formal Gardens & Landscaped Beds 2016-2018**

## **Who Applies Glyphosate?**

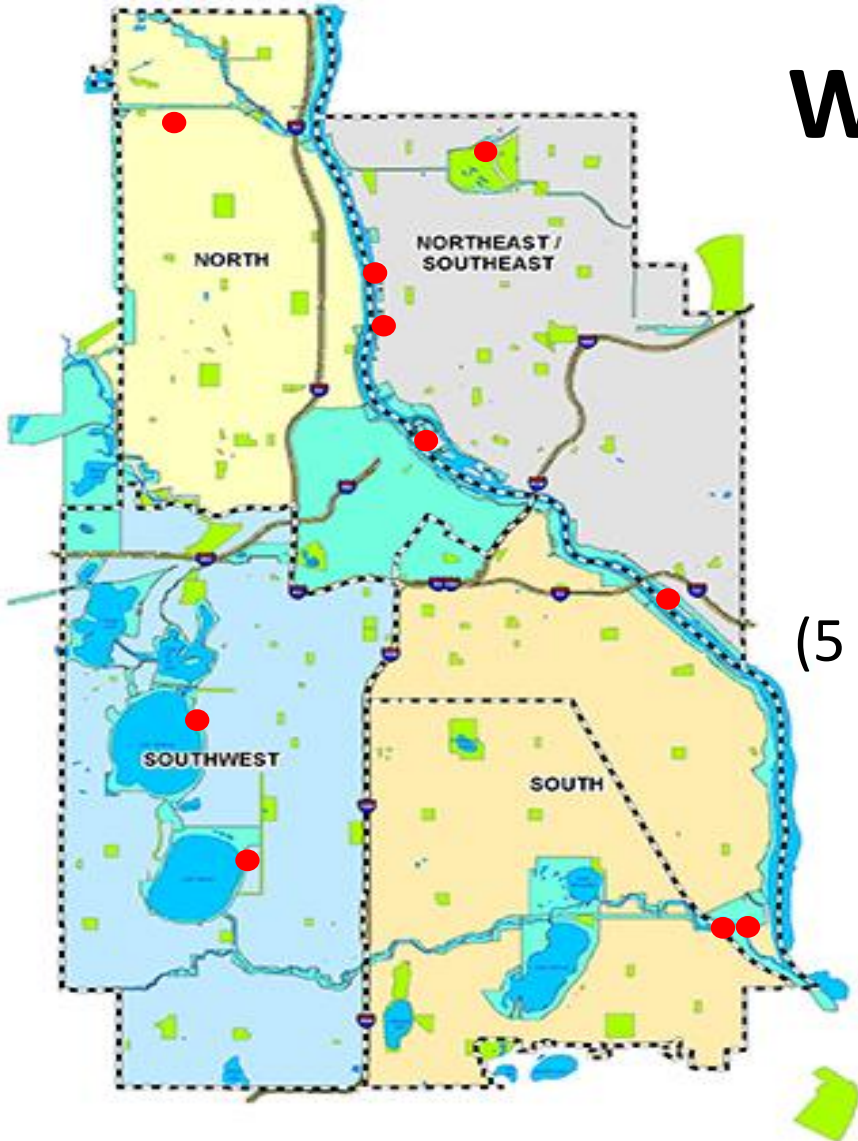
MPRB Parkkeepers & MEOs with active pesticide applicator licenses.

## **What is Applied?**

- ProDeuce (EPA #288-509)

Active Ingredients: Glyphosate (40.15%) + Prodiamine (7.51%)

- Round Up
  - Active Ingredient: Glyphosate (41%)



## Where has Glyphosate been Applied?

- **Bossen Athletic Complex**  
(6 softball field warning track only)
- **Niemen Athletic Complex**  
(5 baseball/softball field warning track, fence line, batting cages only)
- **Parade Field**  
(1 baseball field hardscape around bleachers only)

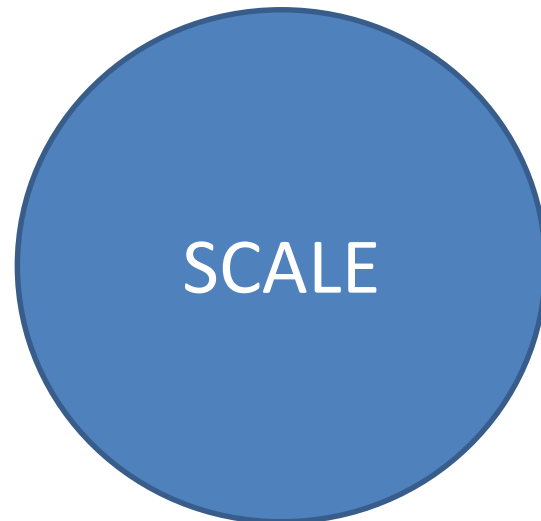
**How Much is Being Applied?**

**When is it Being Applied?**

As weed tolerance exceeds established thresholds

## **Why is it Being Applied?**

Invasive weeds that exceed our established threshold where manual control is not a viable option due to the following reasons.



# What Else Have We Tried?

BURNING

VINEGAR  
SOLUTION

MANUAL  
REMOVAL

# Burning

This technique has been tested on hardscapes.

- Quick results
- Ok to use on Ag Lime surfaces

- Labor intensive due to repeat applications necessary for control (Does not effect root system)
  - Safety concerns (fire)
  - Not effective on asphalt

# Horticulture Vinegar Solution

Tested but not regularly utilized at this point in time.

- Alternative to other herbicides

- Labor intensive due to repeat applications necessary for control (Does not effect root system)
  - Safety concerns
  - Soil health (acid + salts)



## **Hand Pulling (tighter spaces)**

This technique is utilized most frequently.

## **Timed Cutting Back (larger, more open spaces)**

Secondary manual removal technique

- Avoid chemical use
- Instant visual improvement
- Prevents a seed bank build up

- Labor intensive
- Triggers some weeds to multiply and spread
- Time sensitive

# Challenges



Avoiding less stable, more mobile chemical options



Plant growth habits (large seed banks, ability to fully remove manually, accessibility of location, toxicity)

Labor (quantity, quality, timing)

Initial installation standards (especially when taking over spaces previously installed and/or managed by outside vendors)

Proximity of formal gardens & landscapes beds to unmanaged or limited managed natural areas.