



Minneapolis
Park & Recreation Board

Glyphosate Use on Athletic Fields

2016-2018

Who Applies Glyphosate?

MPRB Parkkeepers & MEOs with active pesticide applicator licenses.

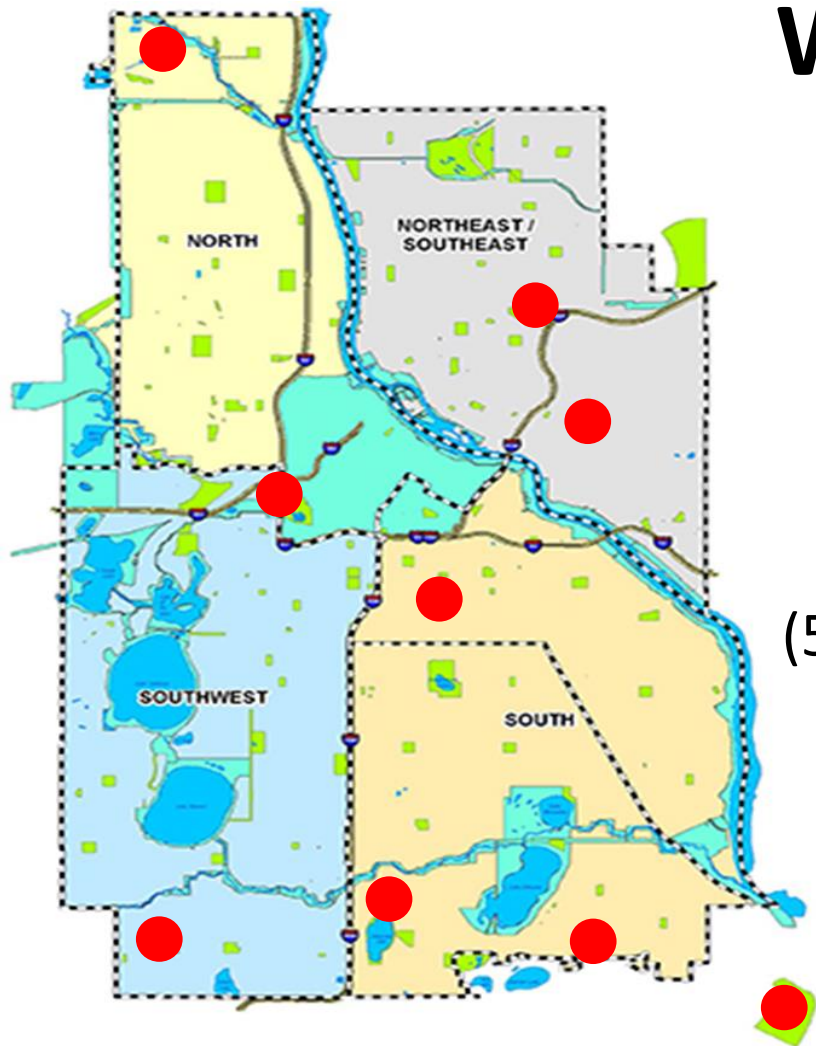
What is Applied?

- ProDeuce (EPA #288-509)

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

- Round Up (EPA #524-475)

Active Ingredient: Glyphosate (41%)



Where has Glyphosate been Applied?

- **Bossen Athletic Complex***
*newly renovated 2016-2018
(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?

3152.5 oz of **solution** between 2016-2018

2016: 935 oz Neimen/Parade

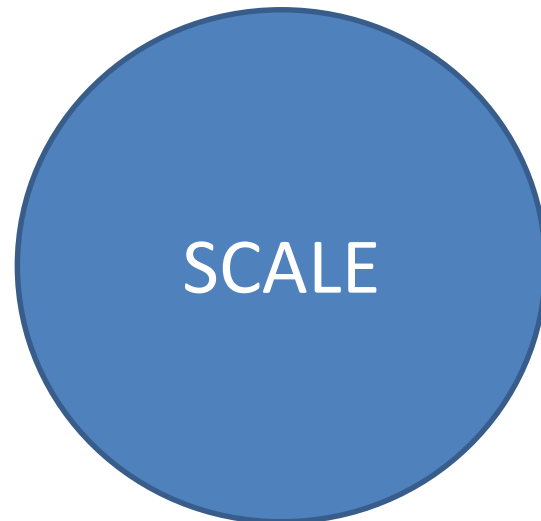
2017: 937.5 oz Neimen/Parade 2018: 1280 oz (Bossen)

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)

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 established seed banks, inability to fully remove manually)

Initial installation standards (soil quality)

Labor (quantity, quality, timing)

Proximity to unmanaged or limited managed areas