



Mid-Michigan
Cooperative Invasive Species
Management Area

Invasive Species Injector Rental Contract

Woldumar Nature Association

<https://woldumar.org/mmcisma/>

stephanie.day@macd.org

517-303-6599

NAME _____ PHONE _____ EMAIL _____

ADDRESS _____ Credit Card# _____

STREET

CITY

ZIP

Everyone who uses the injectors must have this signed rental agreement on file with a Mid-Michigan Cooperative Invasive Species Management Area (MMCISMA) Conservation District (Clinton, Eaton, Ingham, or Ionia) or Woldumar Nature Association (Woldumar). There is a \$50.00 deposit required for rental. The deposit is refundable provided that the equipment is returned on time, in the same condition, and cleaned (triple-rinsed). *Cash deposit preferred.* Photocopies of identification and credit/debit card information will be kept on file and charged as necessary (replacement/repair, late, and/or cleaning fees) and destroyed after rental is complete. Please return the injector within 1 week.

By signing below, the Renter agrees to:

1. Read and follow all instructions on the pesticide labels.
2. Assume all liability in case of unintended injury to humans, animals, and/or plants.
3. Assume all liability in case of environmental contamination due to a pesticide spill, including, but not limited to, cleanup of contaminated soil and water.
4. Use the injector only for their own use during the rental period. **Rentals are non-transferrable.**
5. Notify Mid-Michigan Cisma of any damages to the equipment, or of any equipment that is not operating correctly.
6. Clean (triple rinse) the injector so that it is ready for the next user. The renter will incur a \$25 cleaning fee if the injector is returned without being cleaned properly.
7. The Renter shall pay the MMCISMA full compensation for replacement and/or repair of any equipment not returned in the same condition as rented for any reason, including: damage, theft or loss. The MMCISMA's invoice for replacement or repair is conclusive as to the amount the Renter shall pay under this agreement, up to [\\$350](#).
8. An additional late fee rental charge will be assessed for any equipment that is returned after 1 week: \$20

INSURANCE: The landowner hereby represents that they have in force a valid liability insurance policy with _____ insurance company and agrees to hold MMCISMA, Woldumar and the _____ Conservation District harmless as to any liability that may arise out of the landowner's transportation and/or use of the equipment. **INITIALS:** _____

Rental Fees:	# of Rental kits	Refundable Deposit \$50/kit	Late Fee \$20	Cleaning Fee \$25.00	Injector #	Time/Date out	Expected Time/Date in	ACTUAL Time/Date in
Herbicide Injector @ \$50 deposit								
TOTAL CHARGED ON RETURN:							\$	

Please report your invasive species observation, location and photos to [MISIN](http://www.misin.msu.edu) www.misin.msu.edu

Answers to the following questions are required:

1. Location of the treatment area? (address or crossroads and detail of area on the property; maps indicating treatment area accepted)
2. What plant species will you be treating while using the equipment?
3. What is the size of the area you will be treating? (estimated square feet)

I understand & agree that I will follow the requirements listed above for rental of the injector. I also certify that I will follow the herbicide label, understand how to use the rented equipment, & will use MMCISMA recommended herbicides in the rented equipment.

Landowner/Agency Representative Signature

Date

Conservation District Representative Signature

Date

HERBICIDE SELECTION

For [Japanese, Bohemian, and giant knotweeds](#), and [invasive phragmites](#) injection, a concentrated glyphosate (40-55%) is recommended. Where these infestations are near or in standing water, YOU MUST use an aquatic formulation of glyphosate* and can use the same aquatic formulation on upland sites. Read the label to make sure that glyphosate is the ONLY active ingredient and at a concentration of 40-55%.

The following brand names are some examples of herbicides that contain only glyphosate as an active ingredient in the correct concentration range for upland site treatments:

- [Compare-N-Save 32 oz. 41% Glyphosate Grass and Weed Killer Concentrate, Makes 21 gal](#) (Tractor Supply)
- [Compare-N-Save 16 oz. 41% Glyphosate Concentrate Grass/Weed Killer Herbicide, makes 10 gal](#) (Amazon.com)
- [FarmWorks 1 gal. 53.8% Glyphosate Grass and Weed Killer Concentrate](#) (Tractor Supply)
- [Martin's Eraser Vegetation Herbicide Concentrate 41% Glyphosate, 1 pt](#) (Ace Hardware)
- [Round-up Super Concentrate 50.2% Glyphosate, 32oz](#) (Lowe's)

*Aquatic approved brand names:

- Rodeo (found on Amazon.com and forestrysupply.com)*
- Accord (found on Amazon.com and forestrysupply.com)*
- Shore-Klear Emergent Herbicide*
- AquaNeat Emergent Herbicide*

The Mid-Michigan Cisma and the Clinton, Eaton, Ingham, and Ionia Conservation Districts do not endorse any particular products. These are examples of products that contain the active ingredient recommended. If you already have a product, or are interested in using a product not listed here, and would like assistance determining if it is acceptable and effective to use on your target plant, contact Stephanie Day, Regional Invasive Species Coordinator, at 517-303-6599, or stephanie.day@macd.org.

FOLLOW ALL DIRECTIONS ON THE LABEL AND WEAR NECESSARY PERSONAL PROTECTIVE EQUIPMENT.

The label is the law. These instructions do not replace the need to read and follow the label of the herbicide product that you are using. IT IS ILLEGAL TO USE AN HERBICIDE IN A MANNER NOT SPECIFICALLY PERMITTED ON THE LABEL.

INJECTOR USE

For treating Japanese, Bohemian, and giant knotweeds (Best treatment timing after flowering- Late August - Early October):

1. Wear required personal protective equipment as instructed on the herbicide label.
2. To prepare the injection tool for usage, insert needle with the hole pointing down into end of tool by pulling back on the coupler then letting go.
3. For the injection of knotweed, you do not need to mix/dilute your herbicide. Purchase a concentrated formulation of glyphosate (40-55%, detailed above) and carefully pour the approximate amount you need into the canister on the tool.
4. Treat ALL knotweed stems- It is recommended that you start near the center of the infestation and work your way outward. Inject each stem with the needle between the 1st and 2nd node above ground level and squeeze the trigger. The tool will automatically inject the correct amount of herbicide into each stem.
5. Leave stalks in place until they are completely dead and dry. Then you can remove them and dispose of them as you would other yard waste. NOTE: If the plants are not completely dead and dry, any part of them that touches the ground may root and grow into a new plant - this is why you must leave them in place until they are completely dead and dry. Follow the State of Michigan's proper [Plant Disposal Guidelines](#)
6. **TRIPLE RINSE:** When you are done with all treatment, rinse the tool canister and lid three times with water, then fill with water and spray residue until tool is drained of water. Dispose of all rinse water directly on top of the area you just treated.
7. Monitor the site and follow up foliar treatments with a 2% glyphosate solution will be required for several years following this initial treatment. These are best done in the spring or early summer. ***Contact the Conservation District to report the percentage treated that died and did not come back the following year. 0-25%, 25-50%, 50-75%, and 75-100%***

For treating invasive phragmites: (ALWAYS USE AQUATIC FORMULATION, Best treatment timing- August to October)

1. Wear required personal protective equipment as instructed on the herbicide label.
2. To prepare the injection tool for usage, insert the cavity needle into end of tool by pulling back on the coupler then letting go.
3. Use a concentrated formulation of aquatic approved glyphosate (40-55%, detailed above) and carefully pour the approximate amount you need into the canister on the tool.
4. Cut invasive phragmites stems at the base a few inches from the ground. Treat ALL cut stems- Insert needle into the hollow part of each cut stem with the needle and squeeze the trigger. The tool will automatically inject the correct amount of herbicide into each stem.
5. Properly dispose of cut phragmites seed heads- Carefully double bag seed heads and throw in municipal trash or burn. Follow the State of Michigan's proper [Plant Disposal Guidelines](#)
6. **TRIPLE RINSE:** When you are done with all treatment, rinse the tool canister and lid three times with water, then fill with water and spray residue until tool is drained of water. Dispose of all rinse water directly on top of the area you treated.
7. Monitor the site and follow-up with treatment the following year as needed. ***Contact the Conservation District to report the percentage treated that died and did not come back the following year. 0-25%, 25-50%, 50-75%, and 75-100%***