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www.lakeproinc.com

Based on our recent conversations regarding treatment of Eurasian Watermilfoil (EWM) in your lake, I wanted to provide you with some basic information about the various treatment options for EWM. The following are descriptions of the different products available to control the EWM, their characteristics, and non-target impacts.

The following is a guide to the information included for each product:

<u>Active Ingredient</u>	<u>Brand Name(s)</u>	<u>Application Rate</u>
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Description & Non-Target Impacts

<u>Diquat Dibromide</u>	<u>Reward, Tribune</u>	<u>1 Gallon per Acre</u>	<u>\$185.00 per Acre</u>
Diquat is a contact herbicide in a liquid formulation. Contact herbicides control the plant material the come into contact with, which often leaves the roots unharmed. The roots then are able to sprout a new plant the following year or sometimes later in same growing season. It will provide fast control of the EWM, but does not provide long-term improvement in the distribution or density of the EWM.			

At this rate, Diquat will also control Curly-Leaf Pondweed, Thin-Leaf Pondweed, Naiads, Elodea, and Bladderwort. It may weaken the larger pondweeds, but usually does not control them.

<u>Diquat Dibromide</u>	<u>Reward, Tribune</u>	<u>2 Gallons per Acre</u>	<u>\$245.00 per Acre</u>
Diquat is a contact herbicide in a liquid formulation. Contact herbicides control the plant material the come into contact with, which often leaves the roots unharmed. The roots then are able to sprout a new plant the following year or sometimes later in same growing season. It will provide fast control of the EWM, but does not provide long-term improvement in the distribution or density of the EWM.			

At this rate, Diquat will also control Curly-Leaf Pondweed, Thin-Leaf Pondweed, Naiads, Elodea, and Bladderwort. It will also control some of the larger pondweeds, such as Richardsons, Whitestem, Variable, and Claspig-Leaf Pondweeds.

<u>2,4-D (Ester)</u>	<u>Navigate</u>	<u>100 Pounds per Acre</u>	<u>\$390.00 per Acre</u>
<u>2,4-D (Amine)</u>	<u>Sculpin-G</u>	<u>120 Pounds per Acre</u>	<u>\$420.00 per Acre</u>
2,4-D is a systemic herbicide in a granular formulation. The plants absorb systemic herbicides and move them throughout the plant, including the roots, effectively killing the entire plant. Once controlled with a systemic herbicide, an individual plant will never grow again. There will still be some regrowth the next year from seeds in the substrate and new introduction from the plant moving into and around the lake. Systemic herbicides generally take longer to control a plant (2-3 weeks). The thorough control of systemic herbicides can help make long-term improvements in the distribution and density of EWM in the lake.			

At these rates, 2,4-D will weaken Northern Milfoil and Lily Pads, but usually does not control them.

The MDEQ does not allow application of 2,4-D within 75 feet of any active drinking water well and 250 feet from any well less than 30 feet deep.

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<u>Flumioxazin</u>	<u>Clipper</u>	<u>200 Parts per Billion</u>	<u>\$650.00 per Acre</u>
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Clipper is a contact herbicide in a granular formulation that we dissolve before applying it to the lake. It will provide very fast control of the EWM and other plants. Despite being a contact herbicide, this product has provided multi-year control of EWM in some situations. (Price based off the application rate of 1.1 pounds per acre-foot and an average depth of 3 feet. In deeper waters, the rate and price will increase.)

At this rate, Clipper will also control Curly-Leaf Pondweed, Thin-Leaf Pondweed, Naiad, Elodea, Bladderwort, Duckweed, Watermeal, and Algae. It will weaken larger Pondweeds, Eelgrass, Northern Milfoil, and Lily Pads.

<u>Flumioxazin</u>	<u>Clipper</u>	<u>400 Parts per Billion</u>	<u>\$1,250.00 per Acre</u>
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Clipper is a contact herbicide in a granular formulation that we dissolve before applying it to the lake. It will provide very fast control of the EWM and other plants. Despite being a contact herbicide, this product has provided multi-year control of EWM in some situations. (Price based off the application rate of 2.1 pounds per acre-foot and an average depth of 3 feet. In deeper waters, the rate and price will increase.)

At this rate, Clipper will also control Curly-Leaf Pondweed, Thin-Leaf Pondweed, most of the larger Pondweeds, Naiad, Elodea, Bladderwort, Duckweed, Watermeal, Lily Pads, and Algae. It will weaken Eelgrass and Northern Milfoil.

<u>Triclopyr (Granular)</u>	<u>Navitrol DPF, Renovate OTF</u>	<u>120 Pounds per Acre</u>	<u>\$475.00 per Acre</u>
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This Triclopyr is a systemic herbicide in a granular formulation. The plants absorb systemic herbicides and move them throughout the plant, including the roots, effectively killing the entire plant. Once controlled with a systemic herbicide, an individual plant will never grow again. There will still be some regrowth the next year from seeds in the substrate and new introduction from the plant moving into and around the lake. Systemic herbicides generally take longer to control a plant (2-3 weeks). The thorough control of systemic herbicides can help make long-term improvements in the distribution and density of EWM in the lake.

At these rates, Triclopyr Granular will weaken Northern Milfoil and Lily Pads, but usually does not control them.

<u>Triclopyr (Liquid)</u>	<u>Navitrol, Renovate 3</u>	<u>3 Gallons per Acre</u>	<u>\$400.00 per Acre</u>
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This Triclopyr is a systemic herbicide in a liquid formulation. The plants absorb systemic herbicides and move them throughout the plant, including the roots, effectively killing the entire plant. Once controlled with a systemic herbicide, an individual plant will never grow again. There will still be some regrowth the next year from seeds in the substrate and new introduction from the plant moving into and around the lake. Systemic herbicides generally take longer to control a plant (2-3 weeks). The thorough control of systemic herbicides can help make long-term improvements in the distribution and density of EWM in the lake.

At these rates, Triclopyr Liquid will weaken Northern Milfoil and Lily Pads, but usually does not control them.

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