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Marquette, Michigan 49855
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and

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Ludington Biological Station
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and

Fisheries and Oceans Canada
Sea Lamprey Control Centre
1219 Queen Street East
Sault Ste. Marie, Ontario P6A 2E5
Canada

INSTRUMENT OPERATING PROCEDURE

INSTRUMENT:

Rotary spreader used to apply granular material in small-scale areas.

MODEL:

Earthway 40lb chest mount spreader (3100)
FIMCO ATV dry material spreader 12-volt
Scotts hand-powered spreader

MANUFACTURERS:

Earthway
FIMCO
Scotts

PRECAUTIONS:

POTENTIAL INTERFERENCES

Rain, wind and waves may prevent operators from loading material into spreader.

SAFETY

Follow safe lifting practices when loading material into spreader

PROCEDURES:

I. Preparation

A. Determine the spreader rate

1. Weigh out enough material to fill the hopper at least half full.
2. Set the rate setting stop at a position anticipated to be an appropriate setting.
3. Measure off a test area (e.g. 25 m).
4. Approach testing area at intended speed for granular application with the spreader impeller rotating (either by hand cranking or with a battery-powered motor). Move the rate control lever to the open position against the stop as you cross the starting line. Continue from the starting line with the unit spreading the material. Move the rate control lever to the closed position as you cross the finish line. Note the spread width.
5. Weigh the remaining material in the hopper.
6. Calculate application rate (e.g. kg/m²)

Total spread area = spread width x distance applied

Application rate = weight of material used x total spread area

7. Adjust the rate setting stop accordingly and run through the test again. Repeat process until desired application rate is achieved.

II. Operation

A. Load hopper with enough material to complete the application.

1. Ensure control lever is in the closed position.
2. Remove cover from hopper, if applicable.
3. Load material into hopper.
4. Replace cover, if applicable.

B. Apply granular material

1. Approach application area with the spreader impeller rotating (either by hand cranking or with a battery-powered motor). Move the rate control lever to the open position as you cross into the application area to allow granular material to be spread. Move the rate control lever to the closed position as you exit the application area to stop the flow of material.

C. Clean up

1. When finished, empty any remaining material from hopper.
2. Thoroughly wash spreader and allow to dry before storing

MAINTENANCE:

No oiling necessary.

REFERENCES:

Earthway Broadcast Spreader Model #3100 assembly instructions
FIMCO ATV dry material spreader 12-volt Owners Manual

This procedure has been reviewed and approved by the undersigned representatives of the U.S. Fish and Wildlife Service and Fisheries and Oceans Canada.

REVIEWED/APPROVED _____ DATE _____
Field Supervisor (U.S.)

REVIEWED/APPROVED _____ DATE _____
Program Manager (Canada)