

U.S. Fish and Wildlife Service
Marquette Biological Station
3090 Wright Street
Marquette, Michigan 49855
U.S.A.

and

U.S. Fish and Wildlife Service
Ludington Biological Station
5050 Commerce Drive
Ludington, Michigan 49431
U.S.A.

and

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

INSTRUMENT OPERATING PROCEDURE

INSTRUMENT:

Gas powered blower used to apply granular material in small-scale areas.

MODEL:

Stihl SR 320
Stihl SR 420
Stihl SR 450

MANUFACTURERS:

Stihl

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.
Use caution around exhaust. It becomes hot with use and can cause burns and melt PPE.

PROCEDURES:

I. Preparation

A. Determine the blower 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 blower motor running, rotate the rate control elbow to the fully open position against the stop and fully pull the throttle trigger as you cross the starting line. Continue from the starting line with the unit spreading the material. Move the rate control elbow to the closed position and release the throttle trigger 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

1. Ensure control elbow is in the closed position, and gas motor is shut off.
2. Remove cover from hopper.
3. Load material into hopper.
4. Replace cover.

B. Apply granular material

1. Approach application area with the gas motor running. Move the rate control elbow to the open position while pulling the throttle trigger as you cross into the application area to allow granular material to be spread. Move the rate control elbow to the closed position and release the throttle trigger 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. Store blower in storage box marked "Contaminated with Pesticide" when not in use.

MAINTENANCE:

Fill blower motor with 50:1 mixed two stroke fuel

REFERENCES:

Stihl SR 320 Instruction Manual
Stihl SR 420 Instruction Manual
Stihl SR 450 Instruction 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)