

## **SPRAY EQUIPMENT OPERATION & INSTRUCTIONS**

- Equipment is available on a first come, first served basis.
- Renter is responsible for transportation of the trailer and equipment to and from the Noxious Weed District located at: 3402 Cooney Drive Helena, MT 59602.
- Renter is responsible for the chemical they choose, up to and including cost of supply, transportation of supply, & distribution/rates of supply.
- Fees (*Cash or Check, Only*): Payment for the rental must be made upon the return and inspection of the equipment, an administration charge may be assessed if invoicing is required.
  - Pull Trailer or Slide-In \$40.00/Day or \$60.00/weekend\*
  - Unless prior arrangements have been made with Staff, the Renter must return the trailer & equipment by 8:00 am to the Noxious Weed District following the day/weekend rented to support scheduling of the equipment. An additional rental fee or administrative charge may apply to late returns.
  - \*Weekend; Please pick up Thursday afternoon and return the following Monday morning.
- Renter is responsible for the protection of the trailer, equipment, and accessories. Upon return & inspection the *Renter will be responsible and charged accordingly for any damages to the trailer/equipment.*
- *Call if you have any questions or concerns (406) 447-8372*

### **BEFORE SPRAYING:**

1. Check gas (unleaded) and oil (30 wt.).
2. Check for visible signs of leaks.
3. Follow safety regulations and measure proper mix found on chemical container to be applied.
4. Do not mix at a well site.
5. Fill tank ½ full of clean water.
6. If equipped with broadjet make sure valve to broadjet is closed in case ratchet valve was left on. After start up, open valve to check flow of liquid material.
7. Start engine and check for leaks before adding chemical.
8. If minor leaks occur, try tightening fittings or clamps.

### **MIXING:**

1. If no leaks are found, you are ready to mix.
2. Chemical mixes vary depending on herbicide used. Always mix and spray according to label, directions, cautions, rates, etc.
3. When you have poured the chemical into tank, triple rinse measuring cup and pour into tank.
4. After chemical is added, fill tank with water. Any chemical containers that are emptied can also be triple rinsed at this time and put into the tank.
5. When finished, you must triple rinse the tank. Spray rinse water on area already sprayed or in areas that will be sprayed.

### **CALIBRATION AND SPRAYING:**

1. The chemical rate varies for location, plants, etc. Refer to herbicide label.
2. If the motor stops, check oil. Some motors have a low oil level safety switch. Add oil and try restarting.
3. If motor runs but there is little or no solution coming out of the nozzles, shut off motor, turn off main valve and clean the solution filter.
4. Always wear Personal Protection Safety Equipment as specified on label.

*The Weed District reserves the right to request or modify use upon need, up to and including weather conditions.*

# BOOMINATOR

## ECO SERIES SPRAY NOZZLES

All Eco Series Spray Nozzles were tested at a height of 36 inches. (Recommended operating height is between 12 & 36 inches.) Fresh water used for all testing.



**REGULAR PATTERN  
SPRAY NOZZLES**

Left Right



**LEFT/RIGHT  
COMBINATION**

1200PSL 1200PSR				SPEED (MPH)						
PSI	GPM	SPRAY PATTERN	GALLONS PER ACRE							
			1	2	3	4	5	6	7	
20	1.0	14 ft.	35	18	12	9	7	6	5	
30	1.2	14 ft.	42	21	14	10	8	7	6	
40	1.4	14 ft.	49.5	25	16.5	12	10	8	7	

  

1400PSL 1400PSR				SPEED (MPH)						
PSI	GPM	SPRAY PATTERN	GALLONS PER ACRE							
			1	2	3	4	5	6	7	
20	1.7	15 ft.	56	28	19	14	11	9	8	
30	2.0	15 ft.	66	33	22	16.5	13	11	9.5	
40	2.5	15 ft.	82.5	41	27.5	20.5	16.5	13.5	12	

  

1870PSL 1870PSR				SPEED (MPH)						
PSI	GPM	SPRAY PATTERN	GALLONS PER ACRE							
			1	2	3	4	5	6	7	
20	3.0	18 ft.	82	41	28	21	17	14	12	
30	3.5	18 ft.	96	48	32	24	19	16	14	
40	4.3	18 ft.	118	59	39	30	24	20	17	



**FULL PATTERN  
SPRAY NOZZLES**

1200PSS FULL PATTERN				SPEED (MPH)						
PSI	GPM	SPRAY PATTERN	GALLONS PER ACRE							
			1	2	3	4	5	6	7	
15	0.9	10 ft.	44.5	22	15	11	9	7.5	6	
20	1	10 ft.	49.5	25	16.5	12	10	8	7	
25	1.1	10 ft.	54.5	27	18	13.5	11	9	7.5	

  

1200PS FULL PATTERN				SPEED (MPH)						
PSI	GPM	SPRAY PATTERN	GALLONS PER ACRE							
			1	2	3	4	5	6	7	
20	1.0	14 ft.	35	18	12	9	7	6	5	
30	1.2	14 ft.	42	21	14	10	8	7	6	
40	1.4	14 ft.	49.5	25	16.5	12	10	8	7	

  

1400PS FULL PATTERN				SPEED (MPH)						
PSI	GPM	SPRAY PATTERN	GALLONS PER ACRE							
			1	2	3	4	5	6	7	
20	1.7	14 ft.	60	30	20	15	12	10	8.5	
30	2.0	14 ft.	70	35	24	18	14	12	10	
40	2.5	14 ft.	88	44	29	22	18	15	12.5	

  

1400PL FULL PATTERN				SPEED (MPH)						
PSI	GPM	SPRAY PATTERN	GALLONS PER ACRE							
			1	2	3	4	5	6	7	
20	2.0	25 ft.	49.5	25	16.5	12	10	8	7	
30	2.4	25 ft.	60	30	20	15	12	10	8.5	
40	2.8	25 ft.	70	35	23	17	14	11.5	10	

**1870PL  
FULL PATTERN**



1/4" MNPT

PSI	GPM	SPRAY PATTERN	SPEED (MPH)										
			2	3	4	5	6	7	8	9	10	11	12
20	3.0	30 ft.	25	17	12	10	8	7	6	5.5	5	4.5	4
30	3.5	30 ft.	29	19	14	12	10	8	7	6	5.5	5	4.5
40	4.3	30 ft.	36	25	18	14	12	10	9	8	7	6.5	6