



## Pesticide Sprayer – Wagon/Cart Style

### What is a Wagon/Cart Style Pesticide Sprayer?

Wagon/cart sprayers are small, mobile, motorized-pump pesticide applicators ideal for small to mid-size farms and orchards. The unit is towed or pushed by hand or garden tractor, and can be operated easily by one or two people.

### Key Features of Wagon/Cart Pesticide Sprayer

**Tank:** 113L tank (30 gal US) is 6 times larger than standard 18L backpack sprayers. Has a built in agitator essential for wetttable powder and emulsifiable concentrate pesticides.

**Motorized Pump:** Although the sprayer can be customized with pump and engine separated, a motorized pump such as a GE-75 Honda has less parts and is very durable. Maximum flow is 91 L per minute. Maximum pressure is 4.5 BAR (65 psi).

**High-pressure Hose:** With a pump able to deliver flow and pressure stated above, the hose can easily be 30m long and maintain desirable output.

**Spray Gun:** Customizable, however, depending on the needs and use of the sprayer, a small single-hand spray gun offers the worker a free hand and is less weight. A traditional long spray gun is heavier and sometimes requires two hands, but also keeps the pesticide spray farther from the worker's body.

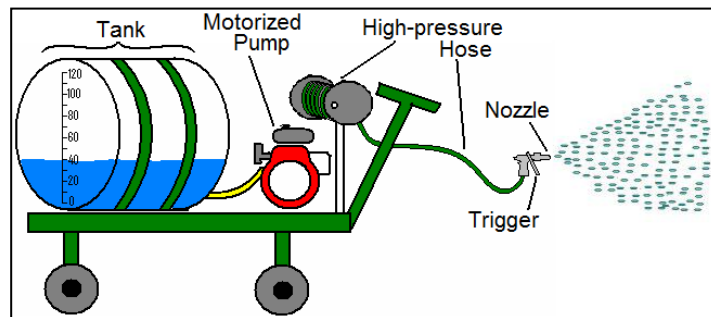


High pressure spray guns<sup>2, 3</sup>

**Frame and Tires:** The large 30cm tall by 13cm wide tires allows easier mobility across uneven or bumpy terrain. The frame steers by pivoting front axle, similar to a child's wagon.

### Note about Safety and Wagon/Cart Sprayers

Workers using wagon/cart sprayers can easily be exposed to pesticides because of the close proximity of the worker and spray nozzle. Wearing proper Personal Protection Equipment (PPE) and following the pesticide label's directions to avoid exposure is very important. Moreover, workers should not spray directly overhead to allow pesticide to drip onto them. Protection against inhalation is normally needed as well. Refer to other information sheets about safety.



Main components of Wagon Sprayer<sup>4</sup>

**Reference:** Special thanks to PBM Supply and Mfg.

Inc. [http://www.pbmsprayers.com/ag/leftnav\\_php/lawn\\_and\\_garden.php](http://www.pbmsprayers.com/ag/leftnav_php/lawn_and_garden.php)

Photo Credit: <sup>1</sup>PBM Supply & Mfg. Inc., <sup>2</sup>MasterLine Univar, <sup>3</sup>OSHA, <sup>4</sup>Mark Henderson

Prepared by Frank Zalom, Pat Thompson, Mark Henderson and Mark Bell, July 2009

For more information visit: International Programs: <http://ip.ucdavis.edu>

Copyright © UC Regents Davis campus, 2011. All Rights Reserved.