Spray Equipment
Dr. Angela Post
Extension Weed Science

Variable-rate Applicator

John Deere 4R50 Sprayer
John Deere 4R50 models are equipped with a Greenstar 2 monitor pre-loaded with precision guidance, mapping, variable rate software.

Hand-held Liquid Application Equipment
Hand-held Granular Application Equipment
Push behind Granular Application Equipment

Directed Applications: Rope-Wick

Dispersible Granules
Cut Stump Applications

Hand Dabbing
- Directed application
  - Handheld dabber
  - Commonly used by superintendents
  - Usually used with glyphosate or glufosinate

Over-the-top spray equipment
Banded Application Equipment
Hooded Sprayers
Air-Blast Sprayers
Wet-Blade Equipment

Partial Control Technology

Not Treated

Partial kill using drip

Partial kill using sponge

Not Treated
Spray Drift & Worker Exposure

Spray Drift

- Wet Blade
- Rear Boom
- Spray Gun
- Pump Sprayer

Worker Exposure to Chemical Solution as Effected by Application Method

Percent of full rate

- 0-1
- 1-2
- 2-5
- 5-10
- 10-25
- 25-50
- 50-75
- 75-100

Wet Blade | Rear Boom | Spray Gun | Pump Sprayer