

FIELD OBSERVATION NOTE #2 - RADIARC® SPRAYER

**RADIARC VOLUME CAPABILITIES
AND ORIFICE/DROPLET SIZE RELATIONSHIPS**

The RADIARC® SPRAYER is available in five standard orifice sizes. The choice of orifice size for a particular use will be based on the applied volume desired, speed of travel, nature of the material applied, type of vegetation, coverage required, width of swath and other occasional factors. Volumes applied can vary from 5 to 125 gallons/acre or more at application speeds of one to twenty miles/hour.

The table below will help the user to choose the most effective nozzle orifice for each combination of vegetation size, vehicle speed, spray volume and product used.

Orifice Size (inches)	Gal/Min. Full Set (22) (30 psi)	Droplet Size Micrometers (Microns)	Volume Range Gal/A	Optimum Speed Range/MPH	Typical Uses
.030	2.95	1500	5 - 25	1 - 7.5	<ul style="list-style-type: none"> • Turf weed control • Turf fungicide and insecticide application • Forest site preparation and release sprays • Total vegetation control
.045	5.72	2250	7.5 - 50	1 - 10	<ul style="list-style-type: none"> • Turf weed control • Fungicide and insecticide applications • Forest site preparation • Pipeline brush • Brush stubble treatments • Rangeland brush • Total vegetation control • Pasture weed control
.070	14.96	3500	10 - 75	5 - 20	<ul style="list-style-type: none"> • Highway PGR's • Highway weed and brush control • Pipeline brush control • Total vegetation control • Aquatic weed control
.085	19.14	4250	12 - 100	5 - 20	<ul style="list-style-type: none"> • Highway PGR's • Highway weed control • Aquatic weed control
.101	25.30	5000	12 - 125	5 - 20	<ul style="list-style-type: none"> • Roadside brush control • Ditchbank weed and brush control

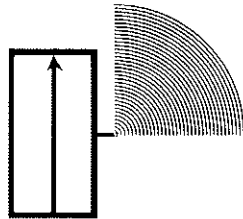
(OVER)

Swath width: Radius Pattern 5' - 25' — Diameter Pattern 10' - 40'

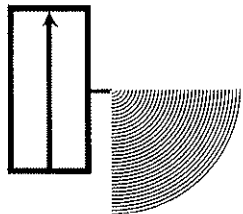
Swath width can be varied by spray pressure, mounting height and mounting angle.

SPRAYER PLACEMENT

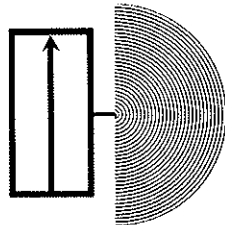
Radius Pattern:



- Maximum Breakup and Coverage
- Some Swath Distortion
- Low Volume



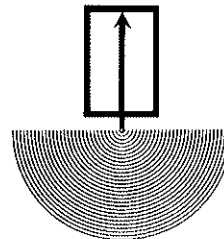
- Minimum Breakup
- Minimum Swath Distortion
- Low Volume



- Maximum Coverage
- High Volume

Diameter Pattern:

- Maximum Swath Width
- Low Volume



NOZZLE SIZE (ACTUAL)

.030"

.045"

.070"

.085"

.101"

