

# ODOT Sprayer Calibration & Tank Mix Calculation Worksheet

Date: \_\_\_\_\_ Name of Applicator(s): \_\_\_\_\_

Spray Width : \_\_\_\_\_ feet (with the wind) \_\_\_\_\_ feet (against the wind)

Nozzle Output: \_\_\_\_\_ gallons per minute (GPM) @ \_\_\_\_\_ p.s.i.

Carrier Rate: \_\_\_\_\_ gallons per acre (GPA)

Ground Speed (refer to calibration charts) : \_\_\_\_\_ miles per hour (MPH)

$$\frac{\text{GPM} \times 495}{\text{GPA} \times \text{SW}} = \frac{\quad \times 495}{\quad \times} = \quad = \quad \text{MPH}$$

## Broadcast Applications: (mixtures using herbicides on a product per acre basis [product/A])

Tank Load Size: \_\_\_\_\_ gallons Full load \_\_\_\_\_ Partial load \_\_\_\_\_

Herbicide #1 rate: \_\_\_\_\_ product per acre (prod/A) (Example: Ranger Pro 1 pint)

Herbicide #2 rate: \_\_\_\_\_ product per acre (prod/A) (Example: Oust XP 1.0 ounce)

Tank Load Size: \_\_\_\_\_ gallons

\_\_\_\_\_ = \_\_\_\_\_ Acres per Tank

Carrier Rate: \_\_\_\_\_ GPA

\_\_\_\_\_ Acres x Herbicide #1 rate: \_\_\_\_\_ prod/A = \_\_\_\_\_ product/tank load

\_\_\_\_\_ Acres x Herbicide #2 rate: \_\_\_\_\_ prod/A = \_\_\_\_\_ product/tank load

Drift Control rate: Tank Load Size: \_\_\_\_\_ gal. / 100 gal. = \_\_\_\_\_ x \_\_\_\_\_ oz. Product/100 gal. = \_\_\_\_\_ prod./tank

Surfactant rate: \_\_\_\_\_ percent (%) solution x \_\_\_\_\_ Tank load size = \_\_\_\_\_ prod. Tank

AMS rate: Tank load size: \_\_\_\_\_ gal. /100 gal. = \_\_\_\_\_ x 17 lb. AMS/100 gal. = \_\_\_\_\_ prod. Tank

## Spray-To-Wet Handgun Applications: (mixtures of herbicide on a volume basis [percent (%) solution])

Tank Load Size: \_\_\_\_\_ gallons

Herbicide rate #1: \_\_\_\_\_ percent (%) solution (example: 1.5% = 0.015)

Herbicide rate #2: \_\_\_\_\_ percent (%) solution (example: 0.5% = 0.005)

Tank Load Size: \_\_\_\_\_ gallons

\_\_\_\_\_ = \_\_\_\_\_ Acres per Tank

Carrier Rate: **100 GPA** (used for all handgun applications on a **spray-to-wet basis**)

\_\_\_\_\_ gallons/tank load x Herbicide rate #1: \_\_\_\_\_ % solution = \_\_\_\_\_ product/tank load

\_\_\_\_\_ gallons/tank load x Herbicide rate #2: \_\_\_\_\_ % solution = \_\_\_\_\_ product/tank load

Surfactant rate: \_\_\_\_\_ percent (%) solution x \_\_\_\_\_ tank load size = \_\_\_\_\_ product/ tank load