

# April 26, 2021 Potash Gandy Calibration

Target 150 lbs/A

For T2 Reps 1, 2, 4, + 5. = 150 lbs/A.

T2 Rep 3 = 100 lbs/A.

T2 Rep 6 = 165 lbs/A.

30ft wide boom

16 deflectors

22.5 inch spacing

5 mph

miles per hour

$$5 \times 5280 = 26,400 \text{ feet per hour}$$

$$26400 \div 60 = 440 \text{ feet per min.}$$

440 ft per min.

$$440 \times 30 \text{ ft boom} = 13200 \text{ sq ft}$$

$$13,200 \text{ sq ft} \div 43560 \text{ sq ft/A} = 0.303030 \text{ A}$$

$$\frac{150 \text{ lbs}}{\text{A}} \times 0.303030 \text{ A} = 45.4545 \text{ lbs}$$

$$45.45 \text{ lbs} \div 16 \text{ tubes} = 2.84 \text{ lbs per tube}$$

$$2.84 \text{ lbs} \times 454 \text{ grams per 1 pound} = 1,289.77$$

1290 grams target in 1 min per tube

Calibration Sample Collected: for T2R6

metercal setting on the Raven controller/monitor = 197.

Target Rate for T2R6 = 165 lbs/A

Sample #1 = 1402.9 grams collected from 1 tube in 1 min.  
 $1402.9 \text{ g} \div 454 \text{ g/lb} = 3.09 \text{ lbs per tube in 1 min.}$   
 $3.09 \times 16 \text{ tubes} = 49.44 \text{ lbs across the 30ft boom.}$   
 $49.44 \text{ lbs} \div \text{Acres covered } (0.303030) = 163.15 \text{ lbs/A.}$