

April 26, 2021 Potash Gandy Calibration

Target 150 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

Using the calibration numbers from the **April 16, 2020**
Potash Gandy Calibration:

Target = 100 lbs/A

meter cal setting = 209

4-16-2020 Potash Gandy Calibration.

target 100 lbs/A

5mph

miles per hour

5 x 5280 = 26400 feet per hour

26400 ÷ 60 = 440 feet per min

30 ft wide
16 deflectors.
22.5 spacing

440 ft per min

$$440 \times 30 = 13200 \text{ seft}$$

$$13200 \text{ seft} \div 43560 \text{ 1 Ac seft} = .303030 \text{ A.}$$

$$100 \text{ lbs/A} \times .303030 \text{ A} = 30.303 \text{ lbs.}$$

$$30.303 \text{ lbs} \div 16 = 1.894 \text{ lbs per tube.}$$

grams per 1 pound.

$$1.894 \text{ lbs} \times 454 = 859.876$$

860 grams target in 1 min per tube.

~~209~~ metercal
1.96
1.98

1.96
1.96.

$$\text{Avg } 1.965 \times 454 = 892 \text{ grams.}$$

grams in 1 pound

1.965 lbs per min in one tube

$$1.965 \times 16 = 31.44 \text{ Pounds in 30 ft.}$$

$$31.44 \text{ pounds in 30 feet} \div \text{Acres covered (.303030)} = 103.7 \text{ pounds per acre.}$$