



Spreader Manual Calibration

1. To calibrate the spreader, first both spinners must be removed.
2. Decide travel speed and spread width, both the figures must be in km\h and metres respectively.
3. Substitute your values in the equation below
4.
$$\frac{36,000}{\text{SpreadWidth(Metres)}} \div \text{Speed(Kmh)} = \text{Time in Seconds}$$
5. This will give you a time in seconds, eg 120 seconds, equal to 2 minutes.
6. This tells us that it will take 120 seconds to travel 1 Hectare.
7. Now use your spreading rate eg 4Kg/Ha. This means it will take 120 Seconds to travel 1 Hectare and displace 4Kg of product.
8. Place two containers under the spreader rate control gates, one each side, ensure PTO is running at 540rpm so agitators are working as they would in the field.
9. Open the control gates for 120 seconds and close again. Weigh your sample, and there should be 2Kg in each container, 4Kg total.
10. If there is not enough product, open the gates slightly, If there is too much, close the gates.

EXAMPLE Slug Bait

I want to travel at 16Km/h and spread 24M at 4Kg per hectare, using the formula,

$$\frac{36,000}{\text{SpreadWidth(Metres)}} \div \text{Speed (Kmh)} = \text{Time in Seconds}$$

$$\frac{36,000}{24\text{Metres}} \div 16 \text{ Km/h} = 93.75 \text{ Seconds}$$

So in 93.75 Seconds, we will cover 1 Hectare and use 4Kg of product.

EXAMPLE Urea

I want to travel at 16Km/h and spread 30M at 100Kg per hectare, using the formula,

$$\frac{36,000}{\text{SpreadWidth(Metres)}} \div \text{Speed (Kmh)} = \text{Time in Seconds}$$

$$\frac{36,000}{30 \text{ Metres}} \div 16 \text{ Km/h} = 75 \text{ Seconds}$$

So in 75 Seconds, we will cover 1 Hectare and use 100Kg of product.

It is best to write it as 75 Secs=100kg

In this case 100kg of product is impractical to handle in buckets and weigh.

So the required time/rate can be either halved or dived by 5 or 10 or whichever is easier.

If we were to divide the time/rate by 10 we would end up with 7.5 Secs=10kg

This means in 7.5 seconds we should have 10kg of products flow from the spreader.