



SEABROOK SEEDERS

DESIGNED AND MANUFACTURED BY: WV SEABROOK & SONS

DRAWN SEEDER CALIBRATION METHODS

SEEDING RATE ADJUSTMENTS

ENSURE ALL PERSONS ARE CLEAR OF MOVING PARTS WHEN SETTING MACHINE.

Larger Compartments

All compartments have individual seed rate adjustments achieved by a sliding aperture.

1. Chock one wheel and jack other drive wheel clear of ground and engage that drive wheel.
2. Set aperture as per guide or previous experience and turn drive wheel until seed flows.
3. Turn drive wheel 3 times and collect seed from one outlet. This will be the amount of seed per square metre. Multiply the number of seeds by 10,000 which will be the seed population per hectare.
4. Calibration by weight: in some instances where a calibration by weight should be used ie: fine seeds with a high population e.g.: Lucerne. This is done by turning the drive wheel 30 times then collecting and weighing the seed from one outlet. Multiply by 1,000 which will be the weight of seed per hectare.

CALIBRATION OF SMALL SEEDS COMPARTMENTS

Small compartments with cover lid

1. Follow steps 1, 2, 3 and 4
Calibration by population: Turn drive wheel 3 times. Collect the seed from one small seeds Compartment outlet. This will be the number of seed per 5 square metres. Multiply this number of seed by 2000 which will be the population per hectare.
2. Calibration by weight: Turn the drive wheel 30 times. Collect the seed from one small seed compartment outlet. Multiply this amount by 200 which will be the weight of seed per hectare. In most instances a minimum setting would be used.
1. With the seed rate setting gauge provided, transfer the setting to the other compartment seed rate aperture adjusters. (NOTE: Record the setting for future use).

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COMMON SETTINGS GUIDE - LARGE COMPARTMENT

Below are some common settings for the large compartments:

SEED TYPE	GAUGE SETTING	RATE PER HECTARE
	Large Compartments	
• Rhodes Grass	26	2.4kg / Ha
• Rhodes Grass	20	2kg / Ha
• Creeping Blue Grass	26	2.4kg / Ha
• Buffle Grass	20	1.1kg / Ha
• Mitchell Grass	15	3.0kg / Ha
• Forage Sorghum	7	4.0kg / Ha
• Silk Sorghum	10	12kg / Ha
• Silk Sorghum	7	8kg / Ha
• Cow Pea	8	16.5kg / Ha
• Lucerne	8	19.0kg / Ha
• Lucerne	5	12.0kg / Ha
•		
• Oats (Unhulled)	20	40.0kg / Ha
• Barley	17	45kg / Ha
	Small Compartments	
• Lucerne	Minimum Setting	1kg / Ha

These setting should be used only as a guide. The use of one of the above mentioned calibration methods will ensure accurate seeding rates.

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MOUNTED BOX OPERATION INSTRUCTIONS

Read and understand operation instructions before operating this machine

SEEDING RATE ADJUSTMENTS:

All compartments have individual seeding rate adjustments achieved by a sliding aperture. Seeding rates for electric or hydraulic driven boxes will vary depending on ground speeds, motor speed and seeder box aperture settings. Seeder box shaft speed should be 40 – 60 rpm. Do not exceed this speed.

Before you start calibrations:

- Only authorised persons are to calibrate this machine
- Make sure all persons are clear of machine
- Keep clear of moving parts and seeder agitator. Do not put fingers into the seed outlets.
- Seeder Box Drive must be stopped before opening lid or adjusting seed outlets
- The Seeder box lid must be closed before engaging box drive
- SERIOUS PERSONAL INJURY may result from unsafe work practices

CALIBRATION OF LARGE / GRASS SEED COMPARTMENTS

1. Set aperture opening
2. Turn drive until seed is flowing
3. Turn drive for one minute, collect and weigh the seed from one outlet
4. Multiply the distance to be travelled in one minute by 0.18m (the spacing of the outlets on the seeder box) IE: 5km / hour = 83m / minute, $83m \times 0.18 = 14.94$ square metres. The amount of seed collected would be applied to 14.94 square metres. $10,000 \text{ sq/m} = 1 \text{ ha}$. $10,000$ divided by $14.94 = 669$. So the amount of seed collected multiplied by 669 will be the calculated seed application rate per hectare. This formula may be varied to get a reasonable amount of seed to weigh. Other large compartments could be set the same using the setting gauge provided (i.e.: all using the same seed / rate, or they could be calibrated differently for other seed types / rates). This formula works out an application rate per hectare for each compartment, the width of the machine does not matter.

Using the setting gauge tool provided, the settings can be transferred to other compartments.

CALIBRATION OF SMALL SEED COMPARTMENTS

5. Follow steps 1 – 4, except in step 4 use 0.9m in the calculation instead of 0.18m (this being the spacing of the small seed compartments).
6. Record the settings for future use.