

The Shepherd Auto Sheep Feeder

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The Shepherd Auto Feeder Feed Calibration.

Equipment Required

1. Kitchen Scales capable of measuring up to 500 grams.
2. Small container
3. Vacuum or scoop capable of collecting grain
4. Calculator
5. 13mm Spanner

Method

1. Set brackets at the low setting.
2. Run feeder to fill 3m of the tray.
3. Collect all grain from beneath 3 holes of the auger casing. Trap the top of the casing to ensure all grain has fallen in to the tray.
4. Tare the scales with the collection container on the scales.
5. Pour the collected grain into the container and record the weight.
6. Calculate the quantity of grain averaged for the 3 holes. Eg $\text{Weight} / 3 = \text{quantity per hole}$.
7. There are 90 holes in the auger casing. Multiply the per hole quantity by 90. This calculates the total quantity of grain for 1 full tray. Eg If each hole has 100grams then 1 full tray will be $(100 \times 90 = 9000\text{g})$ 9kg.
8. Now if you have 150 lambs being inducted divide the total grams of feed by the number of lambs. Eg $9000 / 150 = 60\text{g}$
9. This means that each lamb will get an estimated 60grams of feed for 1 full tray of feed.
10. If you set the timer so that it turns off shortly after the tray fills then this will a close measure. The feeder turning back on will continue to add more feed.
11. To increase the rate of feed either raise the brackets and repeat steps or run the timer for a longer period of time. This will achieve greater quantities of grain.
12. For full production ration raise the brackets and set the feeder for 5min every hour.

Calibration rates are within 15% margin of error.