

# Coverage Calculator Instructions

## ATVS15A 15 Gallon ATV Spreader

Use the charts and/or the procedure below to determine how fast to drive your ATV when spreading to achieve the proper coverage.

### ATV Speeds for Fertilizer Coverage (approx. 1-16" diameter grain size & 20 ft. spread width)

COVERAGE	SPEED WITH GATE FULLY OPEN	SPEED WITH GATE HALF OPEN
15 lbs. per 5,000 ft <sup>2</sup>	9.5 mph	4.8 mph
15 lbs. per 10,000 ft <sup>2</sup>	18.9 mph*	9.5 mph
30 lbs. per 10,000 ft <sup>2</sup>	9.5 mph	4.8 mph
30 lbs. per 15,000 ft <sup>2</sup>	14.2 mph*	7.1 mph
40 lbs. per 10,000 ft <sup>2</sup>	7.1 mph	3.6 mph
40 lbs. per 15,000 ft <sup>2</sup>	10.6 mph*	5.3 mph
50 lbs. per 10,000 ft <sup>2</sup>	5.7 mph	2.9 mph
50 lbs. per 15,000 ft <sup>2</sup>	8.5 mph	4.3 mph

### ATV Speeds for Grass Seed Coverage (18 ft. spread width)

COVERAGE	SPEED WITH GATE FULLY OPEN	SPEED WITH GATE HALF OPEN
10 lbs. per 2,500 ft <sup>2</sup>	3.5 mph	1.8 mph
10 lbs. per 3,000 ft <sup>2</sup>	8.2 mph	4.1 mph
10 lbs. per 5,000 ft <sup>2</sup>	12.5 mph*	6.3 mph
25 lbs. per 6,250 ft <sup>2</sup>	3.5 mph	1.8 mph
25 lbs. per 8,250 ft <sup>2</sup>	8.2 mph	4.1 mph
25 lbs. per 12,500 ft <sup>2</sup>	12.5 mph*	6.3 mph

\* It is not recommended to spread material driving over 10 mph.

## Calculations

$$\frac{\text{area from coverage (sq. ft.) from step 1}}{\text{weight or volume from coverage (lbs., bag, cubic ft.) from step 1}} \times \frac{1}{\text{measured spread width (ft) from step 3}} \times \frac{\text{weight or volume tested (lbs., bag, cubic ft.) from step 2}}{\text{time to flow test material (seconds) from step 4}} \times \frac{1 \text{ mph}}{1.467 \text{ ft/sec}} = \text{ATV speed (mph)}$$

### Example:

$$\frac{5,000 \text{ sq. ft.}}{15 \text{ lbs.}} \times \frac{1}{20 \text{ ft}} \times \frac{50 \text{ lbs.}}{62 \text{ sec}} \times \frac{1 \text{ mph}}{1.467 \text{ ft/sec}} = 9.2 \text{ mph}$$

If your resulting speed is greater than 10 mph, divide the speed in half and use the half-open gate setting.

If your material is not listed below, this procedure will help you calculate the ATV speed to get the correct coverage.

- Record the coverage you are trying to obtain here:

For example: 15 lbs./5,000 ft<sup>2</sup>  
 See material packaging.

- With the spreader gate closed, fill the hopper at least half full with a known quantity of material. Record the amount of material here:

For example: 50 lbs.

**Use the same units of weight or volume used in the spread coverage from step 1.**

- With the spreader on, open the feed gate for one or two seconds and measure the spread width for your material. Record the spread width (in diameter) here:

For example: 20 ft

- Using a watch, record the amount of time it takes all the material to flow through the hopper here:

For example: 1 min, 2 sec

**This step is best done when the spreader is running. Mounding material on spinner may slow down the material flow.**

