

# CHATEAU® HERBICIDE

## CALCULATING CHATEAU VOLUMES PRIOR TO SPRAYING

Prior to applying Chateau Herbicide it is important to assess the ground conditions under your trees or vines.



The area under the crop here is quite clear of green weeds and also free of trash such as prunings and is the ideal situation for applying Chateau.



Here there are some small green weeds coming through and also some light trash. In this situation you can mix a knockdown herbicide with Chateau. The knockdown will take out the green weeds and the chateau will get through the light trash to deliver residual control.



In a situation like this where you have a large number of broadleaf and grass weeds coming through already, you should burn them down with a knockdown herbicide first before applying Chateau. This will allow the Chateau to reach the soil, rather than being blocked by the green weeds.

**To calculate how much Chateau you need** to add to your spray tank you will need to calibrate your sprayer. This involves measuring three things:

1. Your tractor speed while spraying
2. The nozzle output
3. The width of the band you are applying under the vines or trees



The speed on the tractor is not accurate enough for this exercise so we time how long it takes for the tractor to cover 100 metres. This should be done in the field with water in the spray tank, that way it accurately reflects how fast you will be travelling while actually spraying. Record this time in seconds. To convert this time to km/h divide the time taken into 360 = kph.



Next we need to measure the water output of the nozzles. Once the sprayer is set up with the right nozzles and the pressure is selected, run the spray with clean water in the tank and measure the output of each individual nozzle for 1 minute. Measuring each nozzle will indicate if any of them are out by more than 10%, if so they should be replaced. Add the measurement for all nozzles together to get you total output per minute in litres.

## Chateau Herbicide – Calculating Chateau volumes prior to spraying

Because Chateau is only being applied as a band under the crop, it is important to measure the width of this band to calibrate correctly. The best method is to start the spray with clean water and measure the width of the spray pattern. In this case the farmer is spraying two rows at a time and both sides of the row. Some farmers only spray one side of the row at a time and cover the other side on a return run. It is important to use the correct nozzles for this job. Generally, boom spray nozzles are designed to have overlap between nozzles for complete coverage. When only spraying a band it is important to use even-spray nozzles that give the same coverage right out to the edge of the spray. Even-spray nozzles should be used, or nozzles specifically designed for band spraying under vines or trees.



Take the three figures you have measured and put them into this formula to calculate your sprayer water output per sprayed hectare.

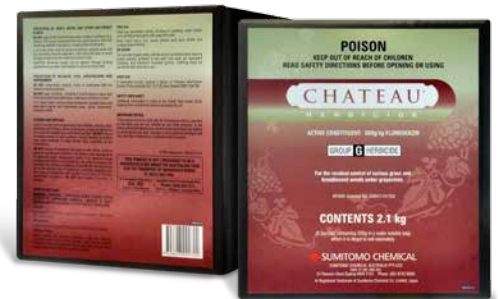
**600 x total sprayer output (L/min)**

**Swath width (m) x Tractor speed (kph)**

Now to calculate how much Chateau per tank you need:

**Tank capacity (L) x Chateau rate (g/ha)**

**Sprayer output (L/ha)**



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