

WORKSHEETS

CP33 Desired PPM Calculator

Dry Calculation

% of chemical concentration $\frac{\quad}{\quad}$ **A** The % of chemical concentration is the % of your dry chemical.

Bag weight in lbs. $\frac{\quad}{\quad}$ **B**

Max. solubility/gal. in ounces $\frac{\quad}{\quad}$ **C** The maximum solubility is on the fertilizer or chemical label or bag.

PPM desired $\frac{\quad}{\quad}$ **D**

Water flow in **GPM** $\frac{\quad}{\quad}$ **E** The water flow entered should be the highest rate of flow the system can attain.

Divide **C** by **16** and then divide **B** by the result, which **X** is the number of gallons of water to mix with the chemical.

$\frac{\quad}{\quad}$
X

Divide **C** by **128** and multiply the result by **A**, which **Y** is the concentration after mixing with water volume **X**.

$\frac{\quad}{\quad}$
Y

Divide **D** by 1,000,000 =

$\frac{\quad}{\quad}$
F

Multiply **E** by 60 =

$\frac{\quad}{\quad}$
G

Multiply **F** by **G** =

$\frac{\quad}{\quad}$
H

Divide **H** by **Y** = $\frac{\quad}{\quad}$ Gallon per hour setting for the CP33.

$\frac{\quad}{\quad}$
I

If you wish to set the CP33 using the ounces scale on the injection control panel, multiply **I** by 128. _____

Liquid Calculation

% of chemical concentration $\frac{\quad}{\quad}$ **A** The % of chemical concentration is the % in the stock solution.

PPM desired $\frac{\quad}{\quad}$ **B**

Water flow in GPM $\frac{\quad}{\quad}$ **C** The water flow entered should be the highest rate of flow the system can attain.

Divide B by 1,000,000 = $\frac{\quad}{\quad}$ **D**

Multiply C by 60 = $\frac{\quad}{\quad}$ **E**

Multiply D by E = $\frac{\quad}{\quad}$ **F**

Divide F by A = $\frac{\quad}{\quad}$ **G** Gallon per hour setting for the CP33.

If you wish to set the CP33 using the ounces side of the injection control panel, multiply **G** by 128. _____

Disclaimer: This worksheet is for determining the proper injection rate setting on the CP33 based on the desired PPM in the output water flow and is provided as an aid for the convenience of our users. The results should not be solely relied upon to determine the setting for the injection rate in your application. Measuring the PPM in the output water is strongly recommended. Chemilizer accepts no liability for any damages incurred as a result of using this worksheet.

Notes:

1. If the result of the calculation exceeds 6 gallons per hour, you have two choices. First, if there is a more concentrated form of the chemical being used, rerun the calculations with that data. If not, it will require multiple CP33 units to meet the volume of injection. Call Chemilizer to discuss the best configuration to meet your needs.
2. When using a dry chemical, the higher the solubility the higher the PPM you can achieve with a single CP33.