



## Quick Reference Guide for Mixing Herbicides\*

Developed by River to River CWMA – May 2012

\* Always read and follow label information for any herbicide being used

**How to use this reference guide:** The below chart gives amount of herbicide needed to obtain different commonly used solution strengths for many of the standard sprayer sizes. Each row represents a different mix amount (in gallons) with each column representing different solution strengths (given in % solution).

**Mixing the herbicide:** Be sure to wear proper safety gear (usually eye protection, chemical gloves, and long sleeves, but read label information for exact safety gear requirements) when handling, mixing, or applying herbicide.

To mix herbicide, add one-third to one-half of water needed for mix , then add the amount of herbicide denoted in chart and add the remaining amount of water needed to reach desired mix amount. Read the label for information on necessity and rates for additives, such as surfactants and penetrants.

**Fluid ounces of herbicide needed for desired solution**

Mix amount	1%	2%	3%	5%	10%	15%	20%
1 gallon	1.25	2.5	4	6.5	13	19	26
2 gallon	2.5	5	8	13	26	38	51
3 gallon	4	8	12	19	38	58	77
4 gallon	5	10	15	26	50	77	102
5 gallon	6.5	13	19	32	64	96	128
10 gallon	13	25	38	64 (2 qt)	128 (1 gal)	192 (1.5 gal)	256 (2 gal)
15 gallon	19	38	58	96 (3 qt)	192 (1.5 gal)	288 (1.75 gal)	384 (3 gal)
30 gallon	38	77	115	192 (1.5 gal)	384 (3 gal)	576 (4.5 gal)	768 (3.6 gal)
100 gallon	128 (1 gal)	256 (2 gal)	384 (3 gal)	640 (5 gal)	1280 (10 gal)	1920 (15 gal)	2560 (20 gal)

### Conversion reference chart

1 gallon = 128 ounces

1 quart = 32 ounces

1 pint = 16 ounces

1 cup = 8 ounces

1 gallon = 4 quarts = 8 pints = 16 cups

1 quart = 2 pints = 4 cups

1 pint = 2 cups