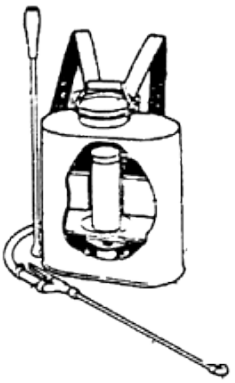
WASHINGTON STATE UNIVERSITY
FERRY COUNTY EXTENSION



Ferry County Noxious Weed Control Board
BACK PACK or HANDLINE

Need Help? Call 509-775-5225, extension 1116 or 1111

1. Put ***CLEAN*** water in the tank (no chemical at this time).
2. Measure an 18’5” square in driveway, dirt or gravel.
3. Time, in seconds, how long it takes you to wet this area spraying like you would be spraying weeds. Number of Seconds = _____.
4. Get a bucket, spray the same way you sprayed the 18’5” square above, into the bucket, for the number of seconds it took you in the last step.
5. Measure how much water you collected (in ounces) in the bucket.
6. What ever number of ounces you collected is your number of gallons of liquid you are putting out with the backpack or handline per acre, thus, number of ounces collected = gallons/acre.
7. EXAMPLE: If you measured 60 ounces then the calibrated volume of spray per acre = 60 gallons/acre. For a chemical that needs 2 quarts/acre you would add 2 quarts to every 60 gallons, where _____ gallons is the gallons/acre you got in number 6.

For your information
3 teaspoons = 1 tablespoon
2 tablespoons = 1 ounce
8 ounces = 1 cup
16 ounces = 1 pint
32 ounces = 1 quart
128 ounces = 1 gallon

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The goal of the weed board program is to aid in the containment, slow the spread and when possible, the eradication of noxious weed infestations and the identification and prevention of new infestations of other problem weeds under r.c.w. 17. 10.

Skid Mount Handline
CHART A
Volume of Weed Killer to Mix in 100 gallons of water

Spray Volume Gal/Acre	Rate of Chemical (pounds ae per acre)	Quarts per Acre ½	1	2	3	4
20		2 ½qt	5 qt	10 qt	15 qt	20 qt
30		1 2/3qt	3 ½ qt	6 2/3qt	10 qt	13 1/3qt
40		1 ¼ qt	2 ½ qt	5 qt	7 ½ qt	10 qt
50		1qt	2 qt	4 qt	6 qt	8 qt
60		27 fl oz	1 2/3qt	3 1/3qt	5 qt	6 2/3qt
70		23 fl oz	1 ½ qt	3 qt	4 ¼ qt	5 ¾ qt
80		20 fl oz	1 ¼ qt	2 ½ qt	3 ¾ qt	5 pt
90		18 fl oz	36 fl oz	2 ¼ qt	3 1/3qt	4 ½ qt
100		1 pt	2 pt	2 qt	3 qt	4 qt
120		13 fl oz	27 fl oz	1 2/3qt	2 ½ qt	3 1/3qt
140		11 ½floz	23 fl oz	3 pt	4 ¼ qt	5 ¾ qt
160		10 fl oz	20 fl oz	2 ½ pt	3 ¾ qt	5 pt
180		9 fl oz	18 fl oz	36 fl oz	3 1/3qt	4 ½ pt
200		8 fl oz	1 pt	2 pt	3 pt	4 pt

BACKPACK
CHART B
Volume of Weed Killer to Mix in 1 gallon of water

Spray Volume Gal/Acre	Rate of Chemical (pounds ae per acre)	Quarts per Acre ½	1	2	3	4
20		5 tsp	10 tsp	3 ¼fl oz	4 ¾fl oz	61/3fl oz
30		3 tsp	6 tsp	2 fl oz	3 ¼fl oz	4 ¼ fl oz
40		2 1/3tsp	4 ¾ tsp	12/3fl oz	21/3fl oz	3 ¼ fl oz
50		2 tsp	3 ¼ tsp	1 ¼fl oz	2 fl oz	2 ½ fl oz
60		1 2/3tsp	3 ¼ tsp	61/3 tsp	12/3fl oz	2 fl oz
70		1 1/3tsp	2 ¾ tsp	5 ½ tsp	11/3fl oz	1 ¾ fl oz
80		1 ¼ tsp	2 1/3tsp	4 ¾ tsp	7 ¼ tsp	9 ½ tsp
90		1 tsp	2 tsp	4 ¼ tsp	61/3 tsp	8 ½ tsp
100		1 tsp	2 tsp	3 ¾ tsp	5 ¾ tsp	72/3 tsp
120		¾ tsp	1 1/3tsp	3 ¼ tsp	4 ¾ tsp	61/3 tsp
140		2/3 tsp	1 1/3 tsp	2 ¾ tsp	4 tsp	5 ½ tsp
160		2/3 tsp	1 ¼ tsp	2 ½ tsp	32/3tsp	4 ¾ tsp
180		½ tsp	1 tsp	2 tsp	3 ¼ tsp	4 ¼ tsp
200		½ tsp	1 tsp	2 tsp	3 tsp	3 ¾ tsp

Note: Chart A represents a 100 GAL Total mix while Chart B is for 1 GAL Total mix.

CLEANING: If some spray is left in the tank, drain tank completely in an area where no undesirable plant damage will occur. After spraying clean the tank thoroughly (rinsing 3 or more times with water is recommended) be sure to pump the rinse water through all sprayer mechanisms until air is coming out. The check valve can be removed to quickly flush the pump. The nozzle assembly should be removed and thoroughly flushed with clean water. When using hormone type herbicides, follow the cleaning instructions of the manufacturer.

Remember that other people will be using the sprayer after you have finished with it.