

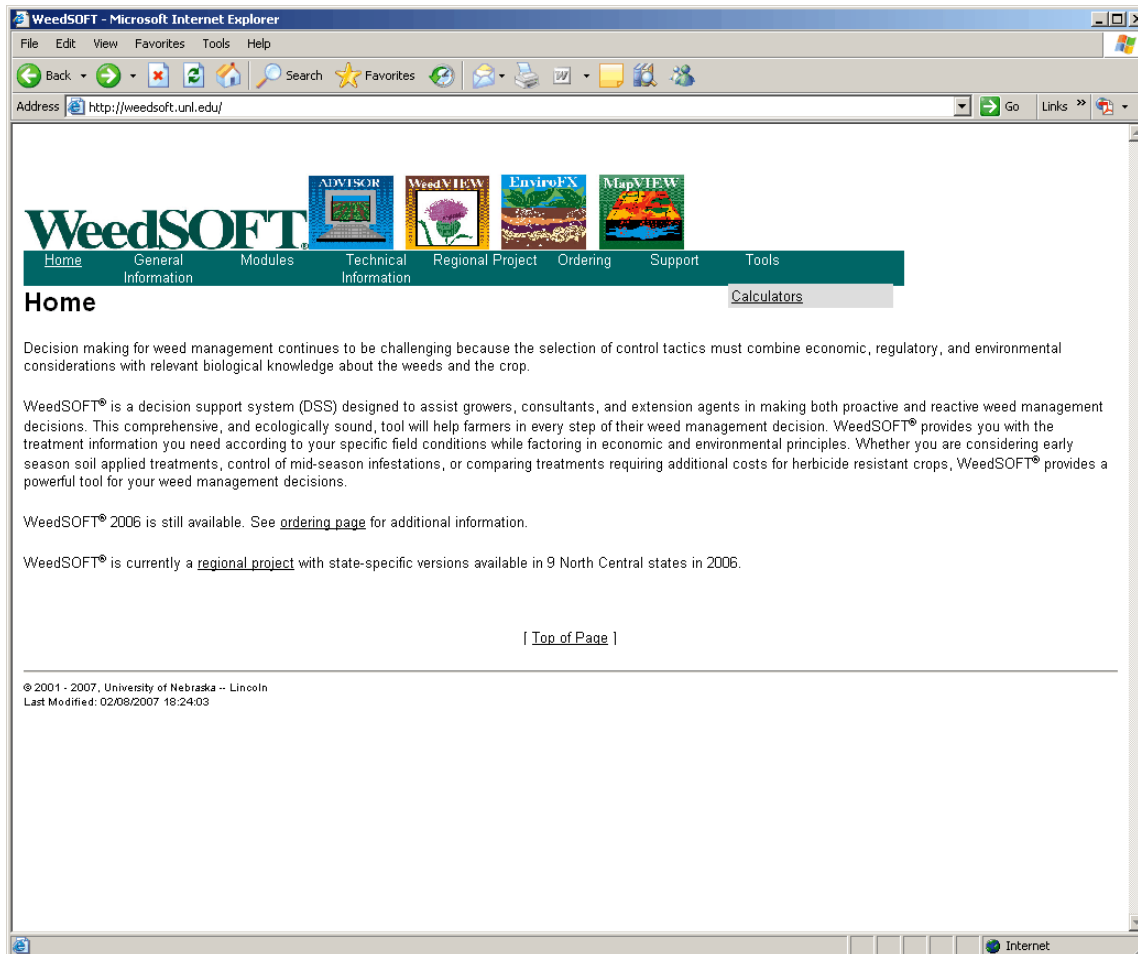
WeedSOFT Tankmix Caluclator

Lowell Sandell and Mark Bernards

4/14/08

A few of the components of WeedSOFT are currently available free online at <http://weedsoft.unl.edu>. The tank-mix calculator is useful for commodity producers, custom applicators, and any others applying herbicides. The tank-mix calculator generates a printed load ticket that gives precise amounts of herbicide(s) and adjuvants (general list) to add to the spray tank. The load ticket can also functions as a record-keeping tool. Below we review how to use the calculator.

The calculator can be reached from the WeedSOFT home page. It is located under the “Tools” menu (see Figure 1). Move the cursor over “Tools,” then click on “Calculators.”



Know how. Know now.



Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska–Lincoln cooperating with the Counties and the United States Department of Agriculture.

University of Nebraska–Lincoln Extension educational programs abide with the nondiscrimination policies of the University of Nebraska–Lincoln and the United States Department of Agriculture.

Figure 2 shows the calculator page of WeedSOFT. A second tool is the WeedSOFT Yield Loss Calculator. We will address its functions in a future CropWatch article. To access the Tank Mix Calculator, click on the sprayer, and then on following screen click on “Continue to Calculator.”

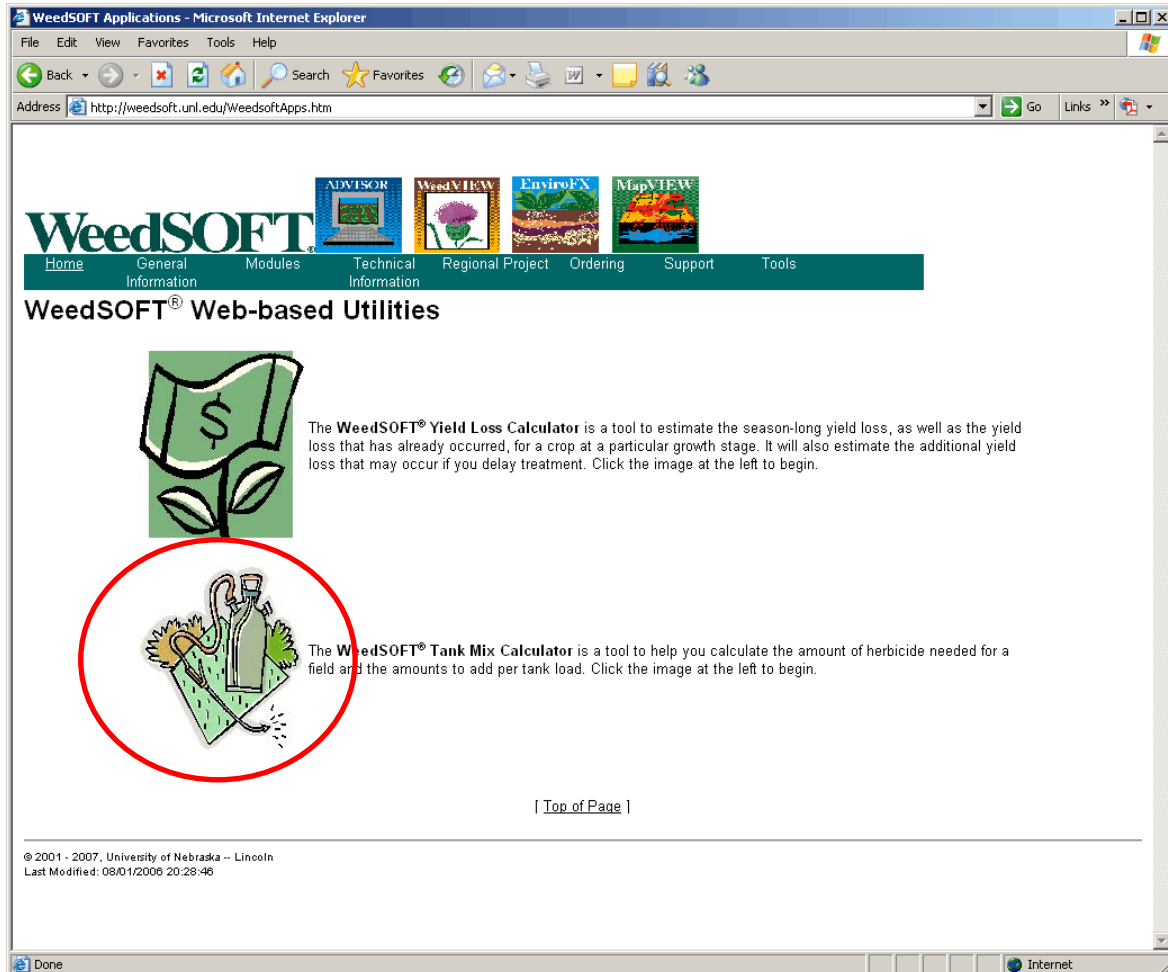


Figure 3 shows the information input screen for the tank-mix calculator. The user should be prepared with the following information.

1. Field size
2. Sprayer tank size
3. Carrier volume or Intended sprayer output (gallons per acre)
4. Herbicide name
5. Herbicide bulk unit (what form and volume is the herbicide packaged in)
6. Herbicide rate
7. If multiple herbicides are to be added to a tank-mixture, click on the “Add Herbicide” button, then repeat steps 1-6 for the next herbicide, otherwise, move to step 8.

Know how. Know now.



Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska–Lincoln cooperating with the Counties and the United States Department of Agriculture.

University of Nebraska–Lincoln Extension educational programs abide with the nondiscrimination policies of the University of Nebraska–Lincoln and the United States Department of Agriculture.

8. This gives you the option of mixing the same volume of spray in your tank for each trip (if multiple trips are required), or to prepare all but the last load to the maximum capacity of your spray tank.
9. Click on the “Calculate” button when you have entered the above information to generate the load ticket.

1 Enter Field Size (Acres):

2 Enter Tank Size (gallons):

3 Carrier Volume (gal./acre):
 5 gal. 10 gal.
 15 gal. 20 gal.
 Custom gal.

4 Select a Herbicide
 EPA Reg. Num.

5 Select Bulk Unit:

6 Enter Amount to Apply:
 Select App. Unit:

7

Selected Herbicide	Amount	App Unit	Bulk Unit

8 If you require 1 Full Load and 1 Partial Load, would you like to split these into 2 equal Loads?
 NO YES

9

©2006 - WeedSOFT® - University of Nebraska-Lincoln (<http://weedsoft.unl.edu>)

The load ticket (Figure 4) includes the information the user entered for field size, tank-size, carrier volume, herbicides, and herbicide rate. In addition, it provides the EPA registration number for each herbicide. If the user selected the option to have full loads and a final partial load, the amount of each herbicide to add to each full load and the partial load is listed in Box 1. Print the screen to obtain a paper copy.

The form provides space (Box 2) for the applicator to list critical information after application, such as location, wind speed and direction, temperature, crop stage, time of

Know how. Know now.



Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska–Lincoln cooperating with the Counties and the United States Department of Agriculture.

University of Nebraska–Lincoln Extension educational programs abide with the nondiscrimination policies of the University of Nebraska–Lincoln and the United States Department of Agriculture.

application, etc. This then becomes a valuable record-keeping tool for regulatory and operation history purposes.

2 Field Information: (You may print this page then complete this section to create a treatment record.)

Date Printed:	04/04/2007	Date Applied:	
Applicator:		Cert. Number:	
Grower Name:			
Grower Address:			
Field Legal Desc:			
Loading Location:			
Wind Vel.:		Wind Direction:	
App. Start Time:		App. End Time:	
Temperature:		REI:	
Crop:		Acres:	85
Tank Size:	600 gal.	Carrier Vol.:	15 gal.

Herbicides To Apply:

Herbicide	Amount/A	EPA Reg. No.
Valor SX	6 OZ	59639-99
GlyStar Pro	26 OZ	42750-61

1 Load Ticket:

Amount needed per Full Tank:			Amount needed per Partial Tank:		
Herbicide	Amount to Add	Unit	Herbicide	Amount to Add	Unit
Valor SX	240.00	OZ	Valor SX	30.00	OZ
GlyStar Pro	8.13	GAL	GlyStar Pro	1.02	GAL

NOTE: Herbicides are listed in their suggested mixing order. Consult herbicide product labels for specific information.

LIMITATION OF LIABILITY: Under no circumstances and under no legal theory, tort, contract, or otherwise, shall the board of regents of the University of Nebraska, UNL or any of its affiliates, employees or other representatives be liable to you or any other person for any indirect, special, incidental, or consequential damages of any character including, without limitation, damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, specifically including damages to crops and soil resulting from the application of the software, or for any damages, even if UNL shall have been informed of the possibility of such damages, or for any claim by any other party. This limitation of liability shall not apply to liability for death or personal injury to the extent applicable law prohibits such limitation. Furthermore, some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation and exclusion may not apply to you.

©2006 - WeedSOFT® - University of Nebraska-Lincoln (<http://weedsoft.unl.edu>)

We believe the tank-mix calculator can be used to improve communication between managers and applicators, to reduce the misapplication of herbicides due to tank-mix calculation errors, and to facilitate improved record keeping.

Know how. Know now.



Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska–Lincoln cooperating with the Counties and the United States Department of Agriculture.

University of Nebraska–Lincoln Extension educational programs abide with the nondiscrimination policies of the University of Nebraska–Lincoln and the United States Department of Agriculture.