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Consumer Product Safety

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Buffer Zone Calculator

The Buffer Zone Calculator is an interactive tool that enables pesticide applicators to modify the size of the Buffer Zone (BZ) specified on a pesticide product label when spraying their fields. By combining information on current weather conditions and their sprayer configuration, applicators may find that BZ distances on product labels can be reduced.

Applicators can use the Calculator for all airblast applications, and for field and aerial applications which specify the following droplet size category wording on the product label: "DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) [Fine or Medium or Coarse] classification." The Calculator is not applicable to ASAE Very Fine or Very Coarse spray droplets.

Applicators that choose to use the Calculator to reduce their BZ will need to retain a copy of the BZ Summary page to demonstrate compliance with label directions. Records must be retained for at least one year following application.

Please have the following ready **before** using the Calculator:

- [Product Label](#)
- [Windspeed](#)
- [Wind Direction](#)
- [Sprayer configuration](#)
- [Temperature](#) (for aerial applications only)
- [Relative Humidity](#) (for aerial applications only)

Information entered into the calculator is not stored or saved.

If you *leave* the calculator application to gather needed information, when you return, you will have to re-enter the data.

Please use the "Previous" and "Next" buttons when using the Calculator.





If you use the forward and back buttons on your Internet browser, information entered may be lost.



**Start Using the
BZ Calculator**

Site-Specific Buffer Zone Calculator

Profile





Date: *	<input type="text" value="2013-06-03"/>	
Applicator and Business Name: *	<input type="text" value="XYZ Co."/>	
Applicator Certification No.:	<input type="text" value="12345"/>	
Land Description: *	<input type="text" value="Identify field for future reference"/>	
Crop and Growth Stage:	<input type="text" value="none"/>	
Product Name: *	<input type="text" value="Traxion"/>	
PCP Registration No.: *	<input type="text" value="29201"/>	
Application Technique: *	<input type="text" value="Field Sprayer"/>	

Habitats for Buffer Zone Protection

Select all sensitive habitat types that are either within, or adjacent to your planned spray area. *

- Freshwater body less than 1 m deep (e.g. small pond, creek, seasonal wetland, etc.)
- Freshwater body greater than 1 m deep (e.g., large pond, lake, river, slough, permanent wetland, etc.)
- Marine water body less than 1 m deep
- Marine water body greater than 1 m deep
- Terrestrial vegetation (e.g., shelterbelt, windbreak, forest, grasslands, etc.)

Meteorological Conditions (Field Sprayer)

Application Start Time:	<input type="text" value="05:00"/>	
Windspeed (km/h): *	<input type="text" value="9-16"/>	 
Wind direction: *	<input type="text" value="West - 270°"/>	 

[next](#)

Field Sprayer Module

Buffer Zone on Label

Freshwater habitat less than 1 m deep: *

Terrestrial habitat: *

Sprayer Configuration

Equipment type: *

Spray Quality on Label: * ?

Spray Quality at Application: * ?

Boom height greater than 0.6 m?: * ?

Product application rate: ?

Carrier (water) volume (L/ha):

Nozzle: ?

Nozzle flow rate (L/minute): ?

Boom pressure:

Tractor speed:

next

Your Results

Site-Specific Sprayer Buffer Zones

Freshwater habitat less than 1 m deep: 9 m

Terrestrial habitat: 9 m

[Revise your information](#)

Print or Save your Results

These are the buffer zones that can now be used according to the application conditions you have specified in this calculator. Buffer zones are for habitats downwind of your spraying area only. You **must** retain a copy of this output for your files for at least one year from the time of application.

Help on accessing alternative formats, such as Portable Document Format (PDF), Microsoft Word and PowerPoint (PPT) files, can be obtained in the [alternate format help section](#).



(PDF Version - 3 K)

Revise your information