

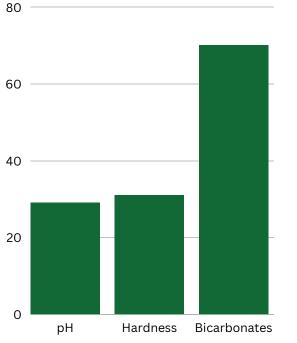
## Spray water guidelines and herbicide interaction

The water in your spray tank makes up to 99.9% of the spray mix and can have a huge impact on your spray jobs. Understanding your water and how it interacts with the herbicides you use can save you money and improve your spray jobs.

Water quality can fluctuate throughout the season, especially in bore water.

pH greater than 8	HARDNESS greater than 250mg CaCO3/L	BICARBONATES greater than 150mg HCO3/L
Most herbicides work best in slightly acidic conditions (pH 4-7)	Atrazine	2,4-D Amine
	Diuron	Haloxyfop (Verdict®)
Exceptions: Asulox®/ Rattler® & Sulfonyureas (Sempra®) (best results in alkaline water)	Glyphosate *	Acifluorofen (Blazer®) (Anecdotal evidence)
	MCPA - Amine (Agritone®)	
	2,4-D Ester	
	2,4-D Amine	
Source: GRDC Spray Water Quality Fact Sheet (Reprinted July 2014); Mixing Order and Water Quality - Spray Safe & Save, and Nufarm.		

## % of Burdekin Samples With Spray Water Issues



Treatment O	ptions and Amelioration

High pH	Hardness	High Bicarbonates
Acidify water with a buffering agent e.g. L1700	Treat water with tech-grade Ammonium Sulphate (AMS) e.g. Liase *Very important for Glyphosate	For Haloxyfop: treat with AMS For 2,4-D Amine: switch to LV ester formulation (2,4-ester, MCPA, Fluroxypyr - Starane® Advanced) OR switch water source

Note: Water conditioners should always be added to the spray tank BEFORE adding chemical

Source: Farmacist - Project Bluewater: Spray Water Analysis