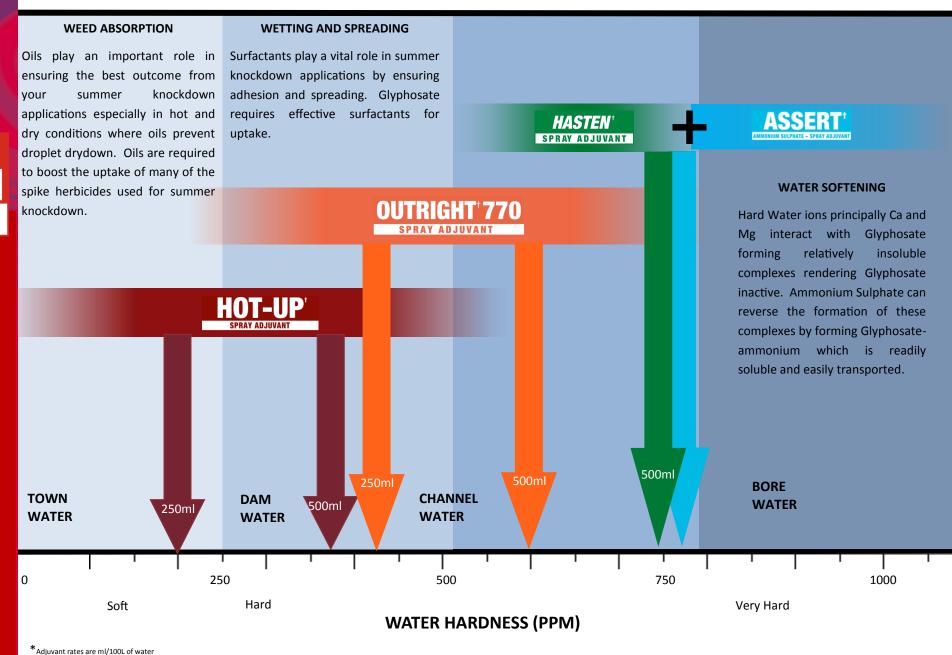
Summer Knockdown Guide

VICCHEN The Right Chemistry

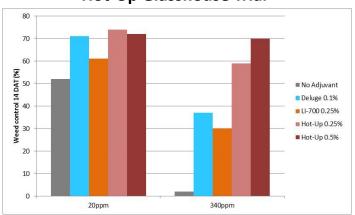
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Adjuvants for Hard Water



Trial data for Adjuvants in Hard Water

Hot-Up Glasshouse Trial



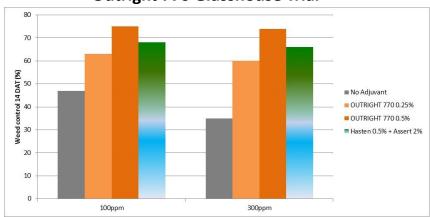
Glasshouse Trial 1:

RoundUp CT applied at 70g a.i./ha with 11001 nozzle @ 145L/ha to Oats at 1-1.5 leaf. Assessment by fresh weight 14 DAT.

Trial 1 shows that the sub-lethal rate of Glyphosate can easily be deactivated by hard water. The addition of wetting agent adjuvants DELUGE 1000 or LI-700 improve the efficacy of Glyphosate in soft water but do not prevent the hard water deactivation. HOT-UP applied at 0.25% works well in soft water and offers partial hard water suppression in the hard water but when applied at 0.5%, HOT-UP protects effectively against the hard water (340ppm hardness)

Recommendation: When using HOT-UP in hard water, use 250ml of HOT-UP for up to 250ppm of Hardness (as CaCO₃) or 500ml of HOT-UP for up to 500ppm of Hardness.

Outright 770 Glasshouse Trial



Glasshouse Trial 2:

RoundUp CT applied at 222g a.i./ha with 11001 nozzle @ 64L/ha to Oats at 1.5-2 leaf. Assessment by fresh weight 14 DAT

Trial 2 similarly shows that increased water hardness results in reduced efficacy when Glyphosate is applied without suitable adjuvants. In this trial OUTRIGHT 770 when applied at either 0.25% or 0.5% effectively softens the water and provides the efficacy enhancement from its surfactants and oils. The combination of HASTEN + ASSERT also easily copes with this level of water hardness.

Recommendation: When using OUTRIGHT 770 in hard water, use 250ml of OUTRIGHT 770 for up to 500ppm of Hardness (as CaCO₃) and 500ml of OUTRIGHT 770 for up to 1000ppm of Hardness. HASTEN 0.5% +

ASSERT 0.5—2.0% can be used for any commonly encountered Hard Water or where water hardness is not known.





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