**BINDWEED**

*with Roundup ProVantage*

**BACKGROUND**

**SPECIES:** HEDGE BINDWEED, *(Bellbine)*, *Calystegia sepium*, *C. silvatica* or *C. pulchra*

FIELD BINDWEED, *Convolvulus arvensis*

These species are all climbing/trailing /scrambling herbaceous perennials with bell-shaped white or pink flowers and triangular leaves. They are all troublesome garden weeds, spreading over railways, waste ground and in hedgerows and fields. The species are widespread with Bellbine preferring damp areas like marshes and river banks and Field Bindweed occurring most widely on calcareous or neutral soils in the south of Great Britain.

**Propagation**

Bindweed spreads mainly by swollen underground roots or rhizomes. Fragments of broken rhizomes root readily and can spread when soil is moved. Spread by seed is only important with Field Bindweed, which is self pollinating. The Calystegia species are self infertile and rely on long-tongued insects for any cross-pollination.

**CONTROL WITH ROUNDPUP PROVANTAGE**

Established shoots- Treat at maximum growth, around flowering in July - August before die-back; New growth among garden plants. in borders. Treat when 10-20 cm growth (before it climbs plants) need to treat regularly as shoots appear, from late April - Sept .

OR

Grow up canes which can be pulled away from shrubs etc so that the spray is safely directed onto the weed.

CAUTION First treatment may cause even more shoots to appear, since it breaks the dormancy of underground buds. Spray any re-growth @3 l/ha before the end of October.

Remember always to take a planned and programmed approach to weed control in such areas – one well timed application may kill off all those weeds present but if no follow-up activity is carried out weeds will simply re-infest the area and within a few years it will have reverted to its original state.
# RATES AND WATER VOLUMES

**Foliar spray**

3.75 l/ha, or in waste ground & amenity situations in 200 litres of water per hectare. Spray as weed is flowering, but before die-back. Typically June/July, depending on species. Spray any re-growth at 3.75 l/ha before end October.

**Hand held weed-wiper *OR paintbrush**

1 part Roundup ProVantage to 1.5 parts water

*The Microwipe, hand held weed-wiper is available from Billericay Farm Services, Telephone (01268) 710237

Most knapsack sprayers are supplied with a set of 4 deflector nozzles giving different swath widths but all delivering 200 l/ha of water at 1 bar pressure and a walking speed of 1 metre per second.

### Spot treatment in knapsack

**Standard 200 l/ha nozzles**

<table>
<thead>
<tr>
<th>Area Sprayed</th>
<th>Volume of Roundup ProVantage</th>
<th>Volume of Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 m²</td>
<td>19 ml</td>
<td>1 L</td>
</tr>
<tr>
<td>500 m²</td>
<td>190 ml</td>
<td>10 L</td>
</tr>
<tr>
<td>1000 m²</td>
<td>380 ml</td>
<td>20 L</td>
</tr>
</tbody>
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For more information including risk phrases and symbols, visit www.monsanto-ag.co.uk