

Reducing Spray Drift and Damage

Quick Checklist

Note: Spray drift increases when an increasing number of these conditions are not met.

- My nozzle types and operating pressures produce a **coarse spray quality**
- I am using glyphosate, MCPA or 2,4-D products with a **very coarse or extra coarse** spray quality.
- My booms height achieves double overlap at the top of stubble – typically 50cm above the top of weeds for a 110° nozzle at 50cm boom spacing.
- There are **no inversion conditions present** - check for inversion warnings or signs of inversions before spraying and stop spraying immediately if a surface temperature inversion or any other unsuitable weather conditions develop.
- I am **spraying during the day**. Do not spray during the period from 1 ½ hours before sunset until 1 ½ hours after sunrise, unless there is no surface temperature inversion present. (Note: There is a very low risk of temperature inversions when there is full cloud cover and/or wind speed is continuously over 11km/hr).
- I am spraying when the wind is **blowing away** from nearby susceptible plants, crops, houses and towns which are within a kilometre. Do not spray when little, no wind or variable winds.
- I am spraying 2,4-D and MCPA products only when the winds are between **3 and 15 to 20 km/hr** as measured at the application site (depending on lable conditions).
- My application speed is **below 18km/hr** (industry best practice)
- My application speed will be above 18 km/hr but boom height is **never more than 50 cm** above the target weed or stubble. I am using **coarse, very or extra** coarse spray quality at the target, **no inversion conditions** exist during the application period and wind speed is consistently between **3 and 15 to 20 km/hr**.
- I am **monitoring and recording** any changes in weather conditions during application including change in wind direction and speed, temperature and presence of inverstion conditions.
- I have **within 24 hours recorded** application details and on-site weather (wind speed, direction, temperature, relative humidity) at the start and end of spraying and at least for every load during spraying.
- I am applying a **Group I herbicide** (2,4-D, 2, 4-DB, MCPA, dicamba, triclopyr, picloram, clopyralid and fluroxypyr):
 - I have a **Prescribed Chemical Users (PCU) qualification**
 - I am **recording** the necessary details as per mandatory state regulations on record keeping for Group I herbicides within 24 hrs

18 June 2014

Biosecurity SA- Rural Chemicals Operations | Phone: 1300 799 684 | Email: PIRSA.RuralChemicals@sa.gov.au