SQC Sprayer Maintenance and Self Assessment form

SQC Sprayer Maintenance and Sen Assessment form					
Owner: Model: Date:		Operator: PA Cert no: NRoSO no:	Make: Reg No:		
Кеу:	Checked/Completed Adjusted	A	Needs Attention X Not Applicable na		
Regularly			Regularly (cont)		
Mechanical Is the attach Is the chass Are the whe Are guards, Hydraulic syste Are they free Are the hose Electrical syste Is the wiring insulated? Do all the lig Pneumatic syste Is the syster	undamaged & are all conrights work properly? em n free from leaks when und	ition? Ire and undamaged? If fitted. Iterations Iterations Iterations Iterations Iterations Iterations Iterations	Controls and valves Are the master on/off switches working correctly? Are all boom section switches functioning? Can you read the pressure gauges easily? Are all labels appropriate and legible? Is the pressure adjustment/stable? Pressure gauge reading zero? Chemical induction system Are the system and controls working properly? Is it free from leaks under pressure? Are all labels appropriate and readable? Is the rinse system and container wash system working properly? Tank rinse system		
Free from le	/chassis fasteners secure?		☐ Is the system functioning properly? External washdown ☐ Is the system functioning properly? Personal ☐ Water supply tank filled? ☐ Is the clothing locker clean and contents complete?		
When unfold Does the he Does the boright? Are the brea	r latched when folded for traded, is it straight and level? ight adjustment and susperior return to level when distances functioning freely?	nsion work properly? splaced to left and	Periodical Jug test all nozzle outputs Date Completed		
'Spray lines' Are they free No hoses ar Are all valve	e from leaks under pressur nd connectors worn or crac es and filters in good condit	e? ked? ion?	Maintenance Required/Completed/Specific items requiring attention		
Are all nozz	is and turrets in good cond les correctly orientated? k valves working properly? distribution pattern visually				

Calibration Record

Calibration

Must be carried out regularly at the beginning of each spray season, (spring and autumn) and regularly during the season and always after changing tractor, tractor wheels, nozzles or replacing any part of the spray delivery system.

When calibrating the sprayer, wear a minimum of a coverall, gloves and boots.

		Enter Values
Read the LABEL	Spray VOLUME Spray DOSE Spray QUALITY	
Measure TIME per 100m	Measure time in seconds over land similar to that to be sprayed	
Calculate SPEED	Speed = 360 ÷ Time (seconds)	
Measure nozzle SPACING on boom	(normally 0.5m)	
Calculate nozzle OUTPUT	Output = Volume x speed x space ÷ 600 (litres/min) (km/h) (metre)	
Select NOZZLE	Refer to nozzle manufacturers chart and select size and type of nozzle that will produce the calculated OUTPUT and required spray QUALITY	

Now check the calibration of the sprayer:

Check Nozzle OUTPUT	Using water, check output of 4 or more nozzles using a calibration jug or flow meter.	
Calibrate SPRAYER	Volume = output x 600 ÷ space ÷ speed (Litres/ha) (litres/min) (metre) (km/h)	

Record Details Date Completed: _____

Nozzles fitted	Tractor used
Spray volume	Tractor gear
Spray pressure	Tractor wheels
Spray quality	Tractor revs
Forward speed	

Further forms can be downloaded from the SQC Website www.sqcrops.co.uk or obtained by telephoning the FIA office: 0131 609 0558