

What sort of stubble?



Resources for
additional reading



What stubble needs to be produced by the harvest process?

Appendix 1

Table 1: 'Harvesting wheat low or high using a JD9770 header in 2014. (Source FarmLink/CSIRO)

Harvest height	Efficiency (ha/h)	Speed (km/hr)	Fuel (l/h)	Fuel (l/ha)	Efficiency (t/ha)	Yield (t/ha)
60cm	9.5	10.6	51.2	5.4	28.8	2.2
15cm	5.7	6.2	54.3	9.6	14.0	2.1
% Change to 15cm	-41%	-42%	+6%	+78%	-51%	-6%

Values are means of three replicates STS yield monitor and all differences are significant (P<0.05).

Table 2. Harvesting wheat in 2015 (Source FarmLink/CSIRO)

Header	Harvest Height	Grain Yield t/Ha	Harvest Speed Ha/hr	Fuel Use L/Ha	Efficiency t/hr	Speed Km/hr
JD 5680	40cm	3.3	13.9	5.9	45.2	11.2
	15cm	3.1	10.9	7.9	34.0	8.9
	% Change to 15cm	-7	-21	+33	-25	-21
Case 8230	40cm	3.7	12.0	6.6	44.9	8.5
	15cm	3.9	7.5	10.6	29.6	6.0
	% Change to 15cm	+6	-38	+61	-34	-29

Table 3. Harvesting wheat in 2015 at 30cm, or 15cm with and without a Harrington seed destructor (Source FarmLink/CSIRO)

Case IH 1920	Grain Yield Tonnes/Ha	Engine Load %	Fuel Use L/ Ha	Fuel Efficiency L/ Hr	Speed Km/Hr
Harvest Height					
High 30cm	3.1	57.7	10.5	49.7	4
Low 15cm	2.9	65.2	12.3	59.2	4
Low 15cm + iHSD	2.9	78.1	16	76.4	3.9
% Change 15cm	-7%	+12%	+14%	+16%	+1%
% Change 15cm +iHSD	-6%	+35%	+52%	+54%	-1%

Links to additional reading as referenced 'What Sort of Stubble?' guideline

Pre-Harvest Herbicide Use - GRDC (2014)

<http://www.farmlink.com.au/LiteratureRetrieve.aspx?ID=202794>

Harvest weed seed control: ryegrass seed retention levels in south-eastern Australia wheat crops (2015)

<http://www.farmlink.com.au/LiteratureRetrieve.aspx?ID=202795>

Stubble Management Fact Sheet—GRDC (2011)

<http://www.farmlink.com.au/LiteratureRetrieve.aspx?ID=202796>

NuFarm WeedMaster DST sales brochure

<http://www.farmlink.com.au/LiteratureRetrieve.aspx?ID=202797>

What stubble needs to be produced by the harvest process?

Managing stubble and weeds in canola crops

Figure 1: Application of Nufarm Weedmaster DST to canola crops (Nufarm)

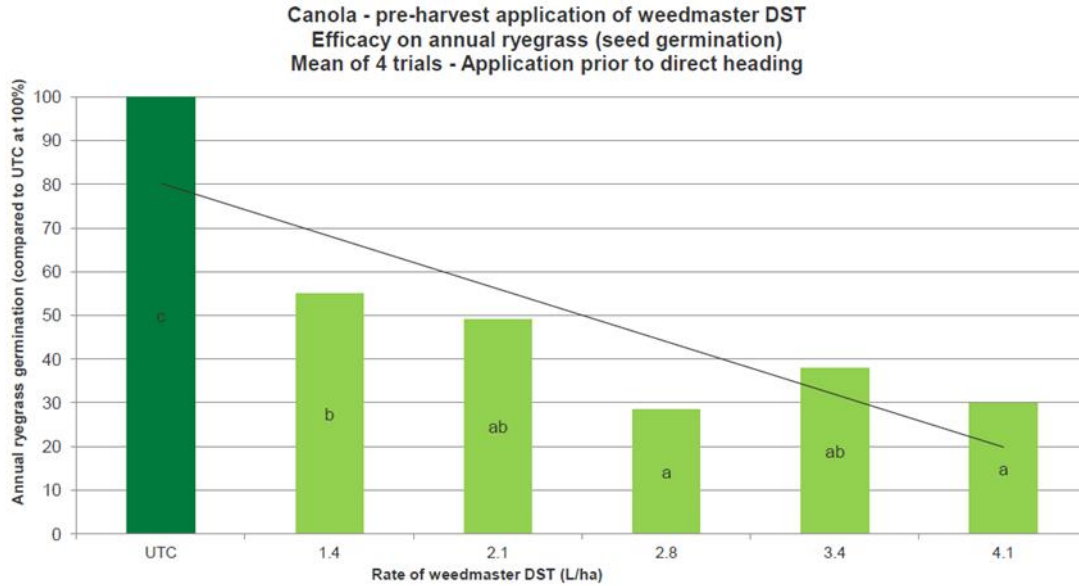
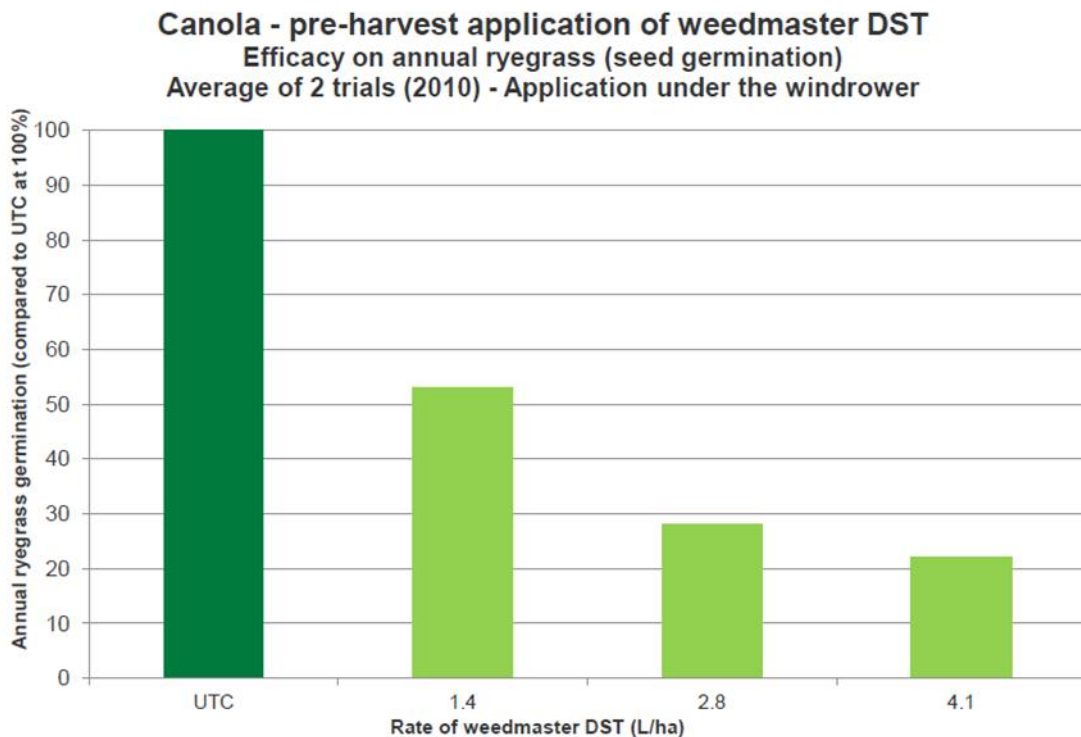


Figure 2: Application of Nufarm Weedmaster DST under the cutterbar



Source: Chris Preston University of Adelaide

Disclaimer FarmLink Research Limited and any contributor to the material herein ('Material') have used reasonable care to ensure that the information in the Material is correct and current at the time of publication. However as the Material is of a general nature only it is your responsibility to confirm its accuracy, reliability, suitability, currency and completeness for use for your purposes. FarmLink Research Limited, its officers, directors, employees and agents do not make any representation, guarantee or warranty whether express or implied as to the accuracy, reliability, completeness or currency of this Material or its usefulness in achieving any particular purpose. You are responsible for making your own enquiries before taking any action based on the Material. To the maximum extent permitted by law, FarmLink Research Limited does not accept any liability (direct or indirect) in contract, tort (including negligence) or otherwise for any injury, loss, claim, damage, incidental or consequential damage, arising out of, or in any way connected with, the use of, or reliance on, any Material, or any error, negligent act, omission or misrepresentation in the Material and you hereby waive all potential rights against FarmLink Research Limited in this regard.

November 2016