GrassGro Seasonal Outlook Analysis for Wagga

Update for 15 November 2007

Libby Salmon, CSIRO Plant Industry

Email: Libby.Salmon@csiro.au Phone: (02) 6246 5417

Grazing enterprise simulated:

- Crossbred ewes @ 6ewes/ha, producing 2nd cross lambs, sold at 45 kg or by 10 Dec
- Soil type is a red earth with a fertility scalar of 0.8 (moderate)
- Weather inputs from SILO's Patched Point Dataset for Wagga: 1 Jan 1889-15 Nov 2007
- Annual pasture (annual ryegrass and sub clover)
- Perennial pasture (phalaris, barley grass and sub clover)

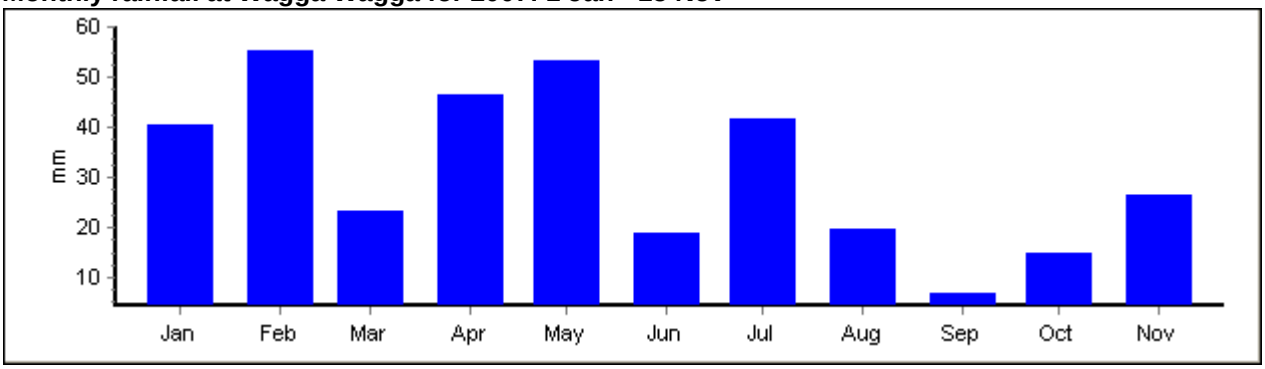
On the following pages compare:

- The distribution of green pasture availability for the *tactical* analysis with the *historical* distribution
- Tactical outcomes starting from 28 Aug, 22 Sep, 15 Oct, 15 Nov 2007
- Tactical outcomes for annual vs perennial pastures
- The effect of de-stocking from 22 Sep 2007 on the minimum herbage mass over summer-autumn (tactical from 22 Sep 2007)

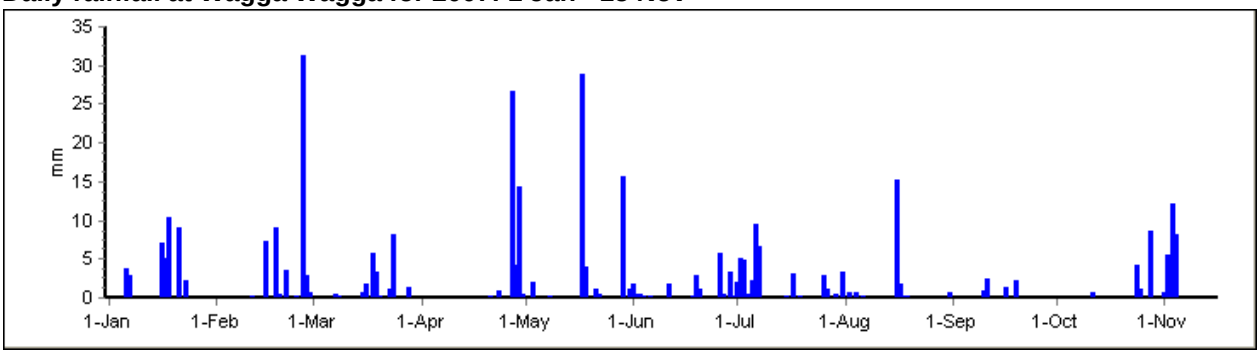
SILO inputs for rainfall at Wagga Wagga NSW (from GrassGro)

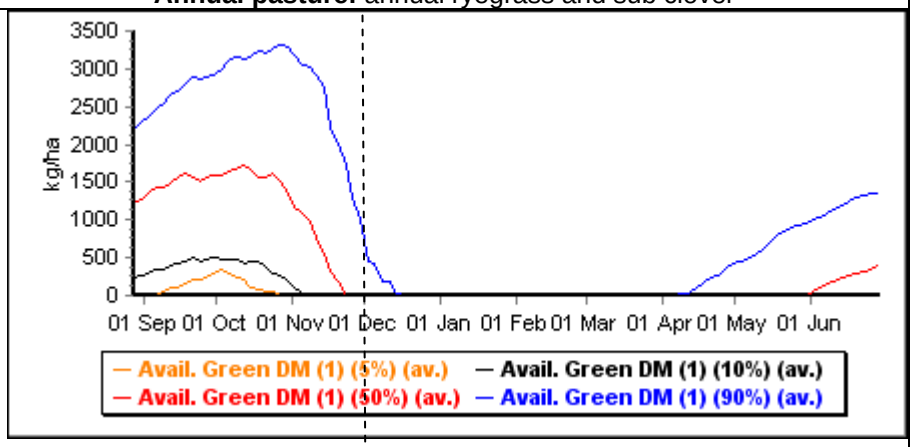
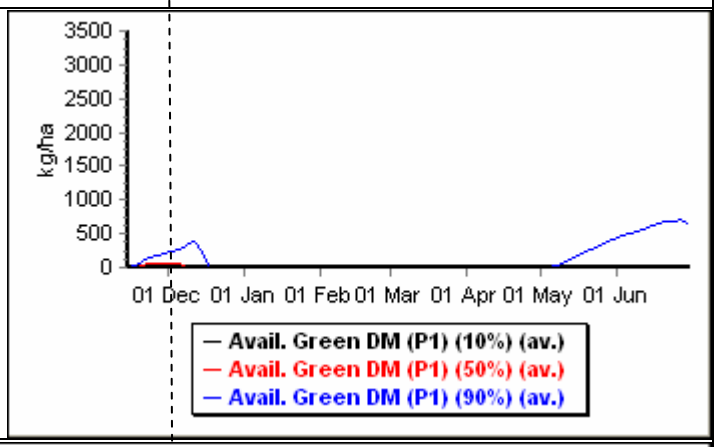
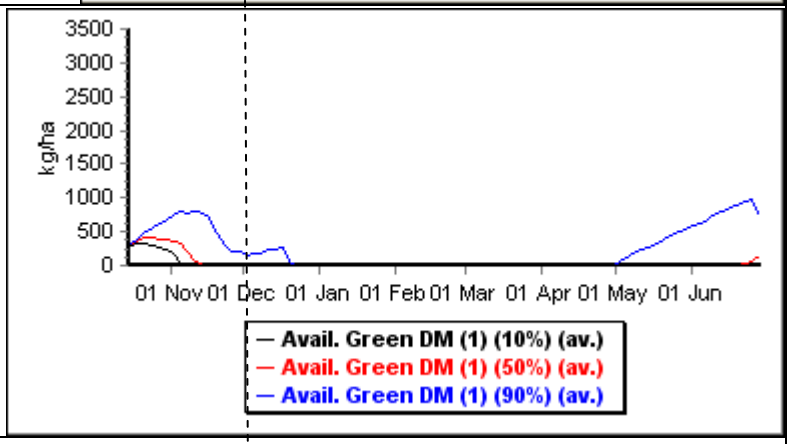
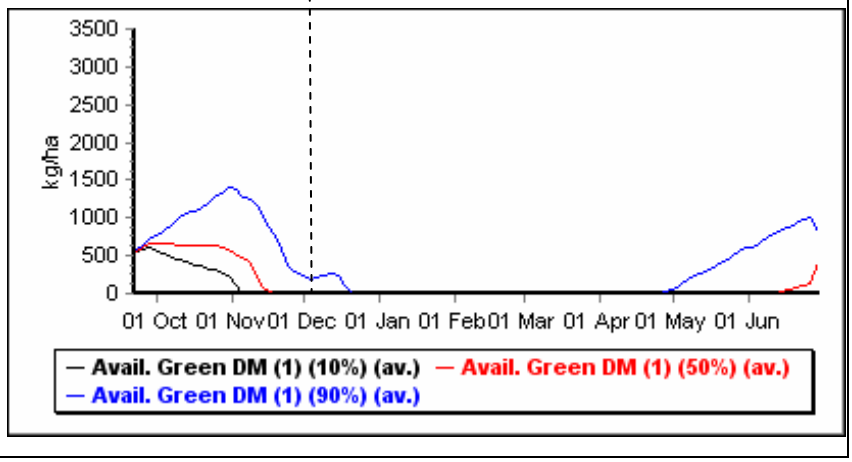
Total for 1 Jan- 15 Nov 2007: 345 mm
Long term average rainfall (1889-2006) for same period: 495mm (annual: 553mm)

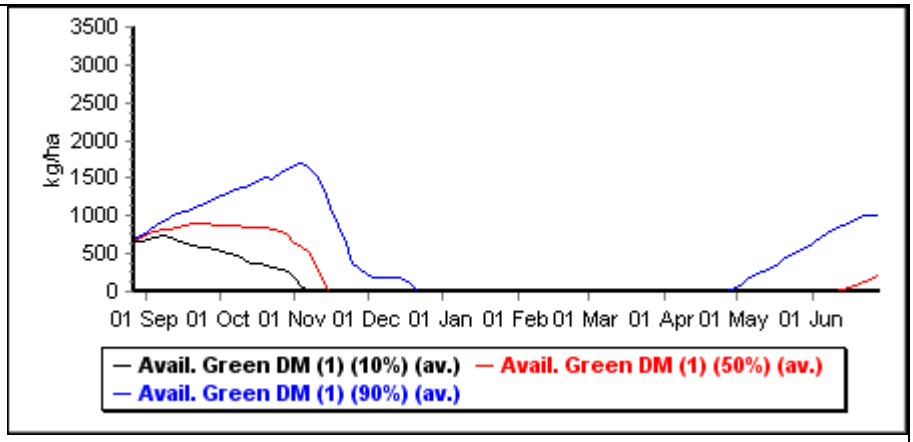
Monthly rainfall at Wagga Wagga for 2007: 1 Jan - 15 Nov

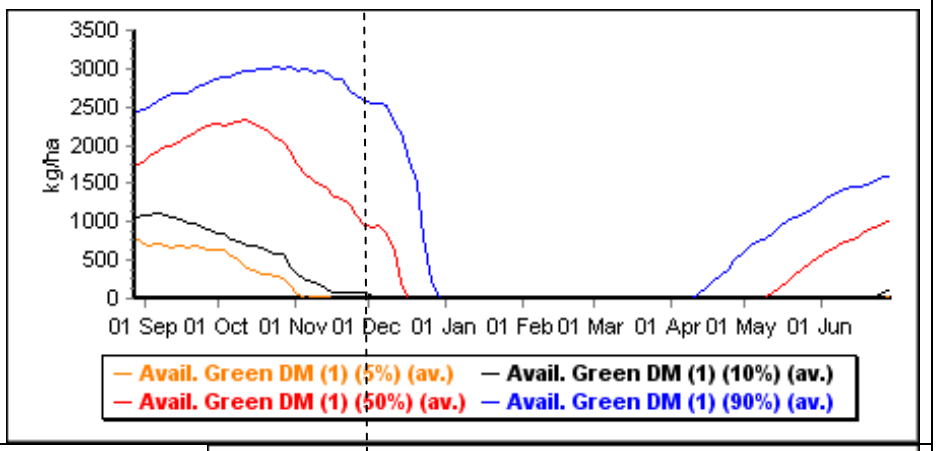
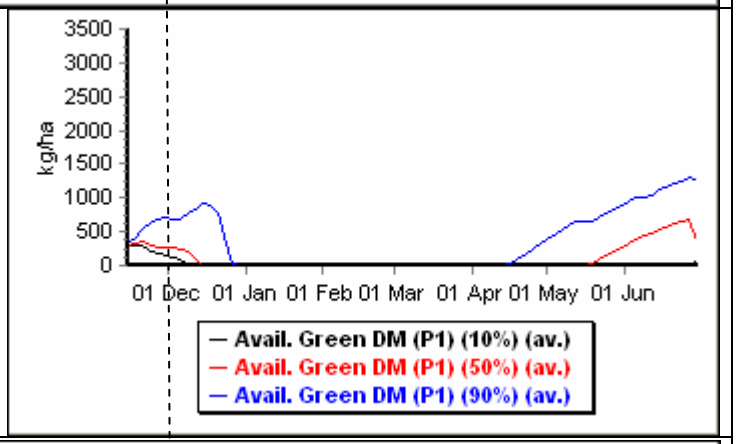
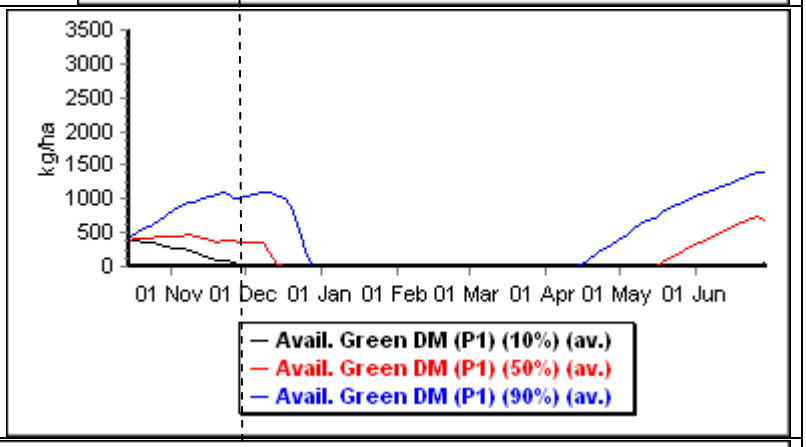
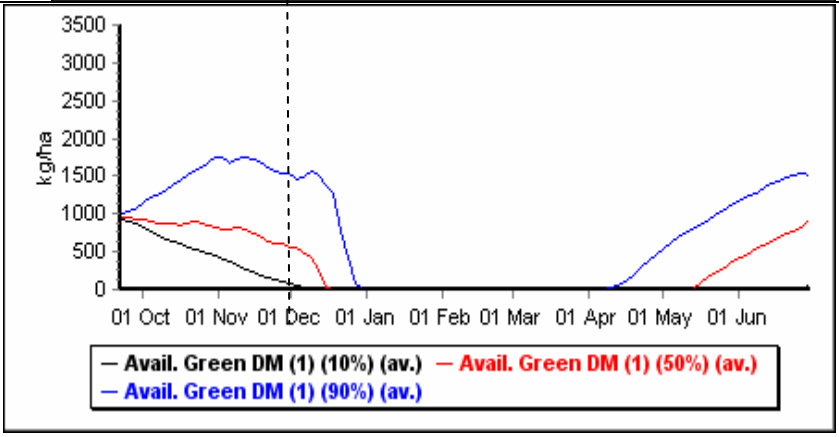


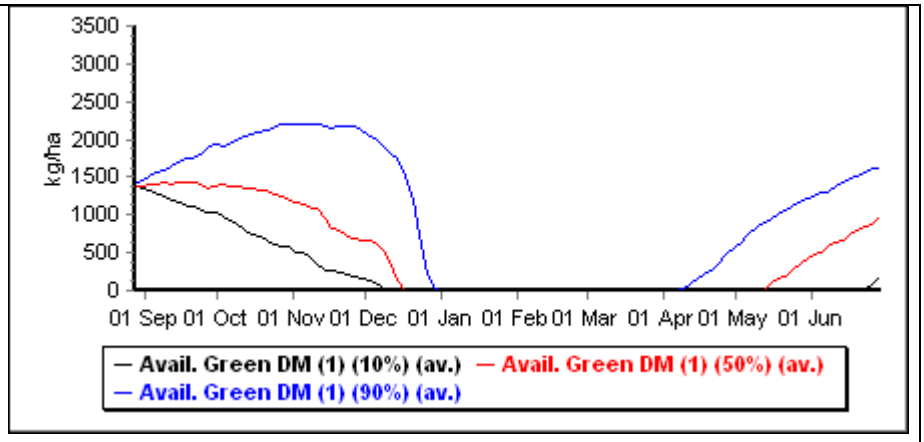
Daily rainfall at Wagga Wagga for 2007: 1 Jan - 15 Nov



	Annual pasture: annual ryegrass and sub clover
Historical: 1 Jan 1889-15 Nov 2007. This graph shows percentiles for green pasture 28 Aug-30 Jun	
Tactical from **15 Nov 2007** (15 Nov-30 Jun, 1889-2006)	
Tactical from **15 Oct 2007** (15 Oct-30 Jun, 1889-2006)	
Tactical from **22 Sep 2007** (22 Sep-30 Jun, 1889-2006)	

Tactical from **28 Aug 2007** (28 Aug-30 Jun, 1889-2006)	

	Perennial pasture: phalaris, barley grass and sub clover
Historical: 1 Jan 1889-15 Nov 2007. This graph shows percentiles for green pasture 28 Aug-30 Jun	
Tactical from **15 Nov 2007** (15 Nov-30 Jun, 1889-2006)	
Tactical from **15 Oct 2007** (15 Oct-30 Jun, 1889-2006)	
Tactical from **22 Sep 2007** (22 Sep-30 Jun, 1889-2006)	

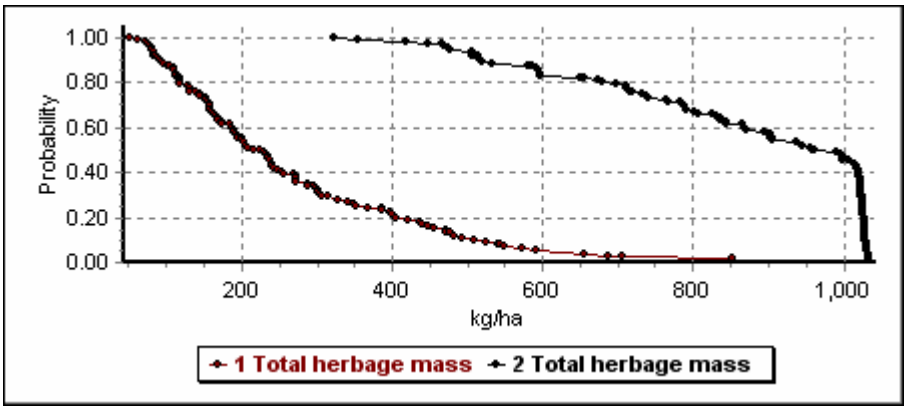
Tactical from **28 Aug 2007** (28 Aug-30 Jun, 1889-2006)	

What was the effect of reducing stocking rate from 22 Sep (from 6 crossbred ewes/ha to 0.1 ewes/ha)?

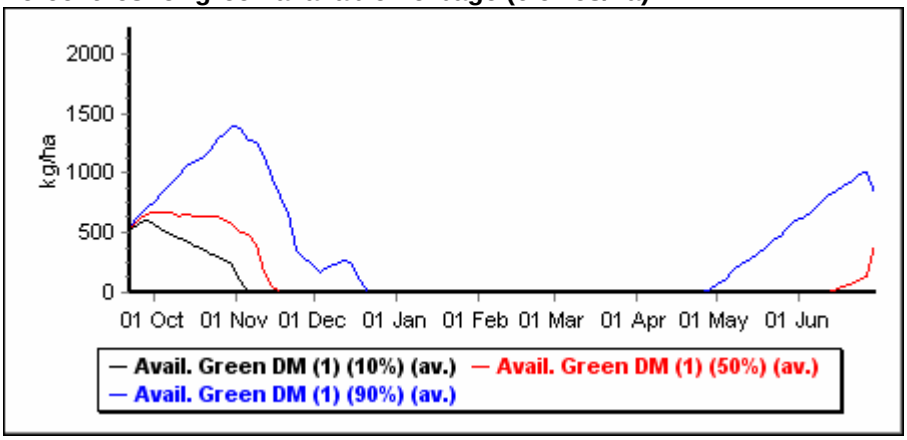
Perennial pasture at Wagga Patched Point Dataset for weather from 1889-2006

Minimum pasture residues
The probability (shown of the vertical axis) of the minimum total pasture mass during the tactical period exceeding the amount shown on the horizontal axis (kg DM/ha) *[22 Sep - 30 Jun, 1889-2007]*

6 ewes/ha (brown), 0.1 ewes/ha (black)



Percentiles for green available herbage (6 ewes/ha)



Percentiles for green available herbage (0.1 ewes/ha)