Southland Monitor Farm Project

Weekly Update – 25 November 2009

Average growth rates continued to ease across most of the region this week and were 10 kg DM/ha/day lower than the same week last year. Average growth across the region is for November is now lower than the previous 2 seasons. The Central Southland farm is the only farm still feeding supplement in the shed. Small deficits have developed in the wedge for the Northern and Eastern farms. The West Otago farm still has one paddock closed for silage. Soil temperatures rose across the region with the average for the week being intermediate between the 2007-08 and 2008-09 seasons.

Only the Central Southland and West Otago farms are still producing above 2 kg MS/cow/day.

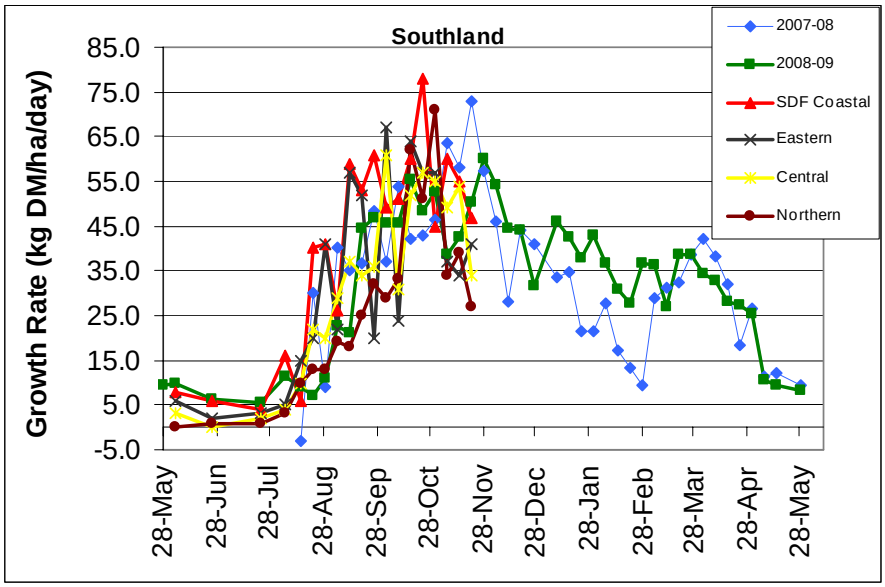
Weekly Tips

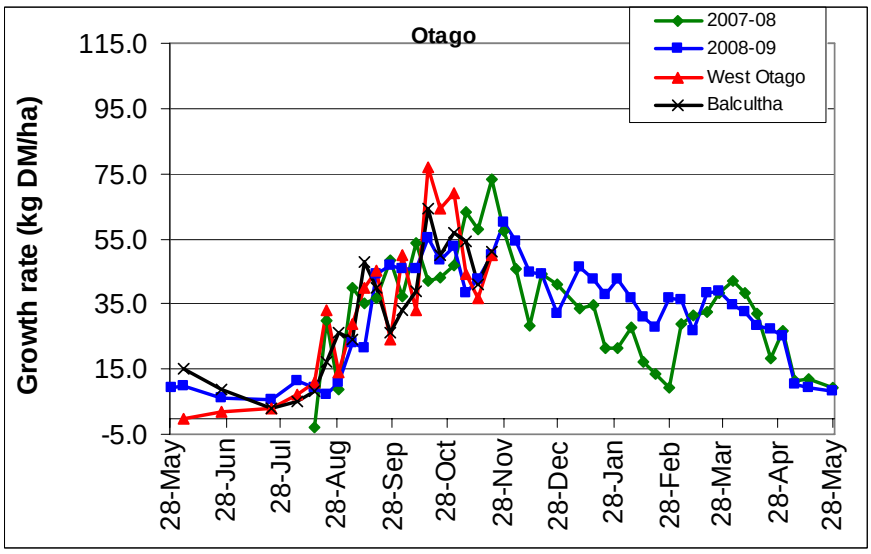
Variable weather in recent weeks has resulted in relatively low growth rates and small feed shortages on some farms. Avoid purchasing supplementary feed if you have suitable feed on farm to cover a short term deficit. Cows are able to withstand a short period of mild under feeding without long term effects on milk production. For those with paddocks shut for conservation, maintain communication with your contractor and be prepared for their arrival when the weather settles. Mating for most farms has passed the 3 week mark. If your herd has not achieved the 90% submission target, take action. Seek veterinary advice or consult the In Calf book available from DairyNZ (0800 4 DairyNZ)

Farm Summary

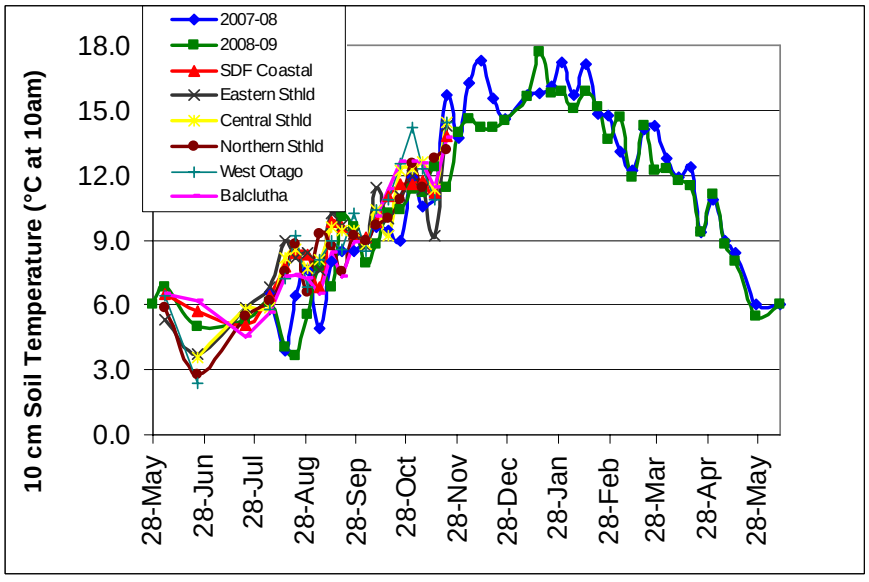
	Demo Farm	Eastern	Central	Northern	West Otago	Telford
Average cover (kg DM/ha)	2052	2062	2283	2000	2107	2231
Supplement (kg/cow/day)	0	0	1	0	0	0
Rotation length (days)	20	24	21	20	20	30
Stocking rate	3.0	3.1	3.0	2.6	2.9	2.9
Milksolids kg/cow	1.75	1.98	2.19	1.94	2.02	1.84
Milksolids kg/ha	4.7	6.0	6.4	5.1	5.7	5.4
N (kg/ha)	62	4	42	0	8	54
Soil temperature (°C)	13.8	14.3	14.4	13.2	14.4	13.7
Growth Rate (kg DM/day)	47	41	34	27	50	51
Rainfall	13	19	4	8	3	6
Comments						

Pasture Growth Rates

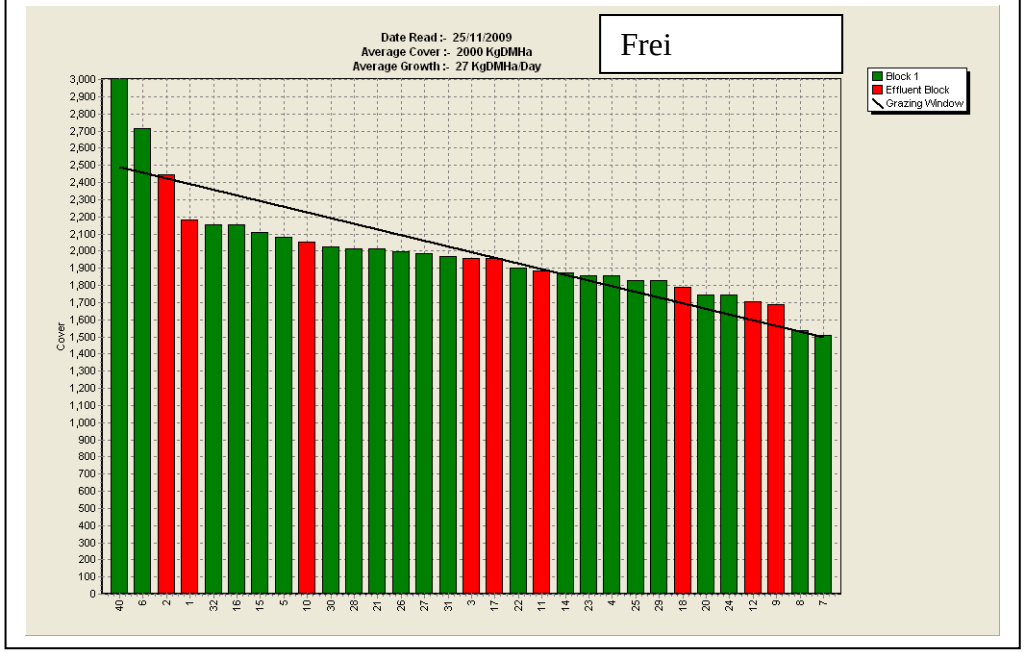




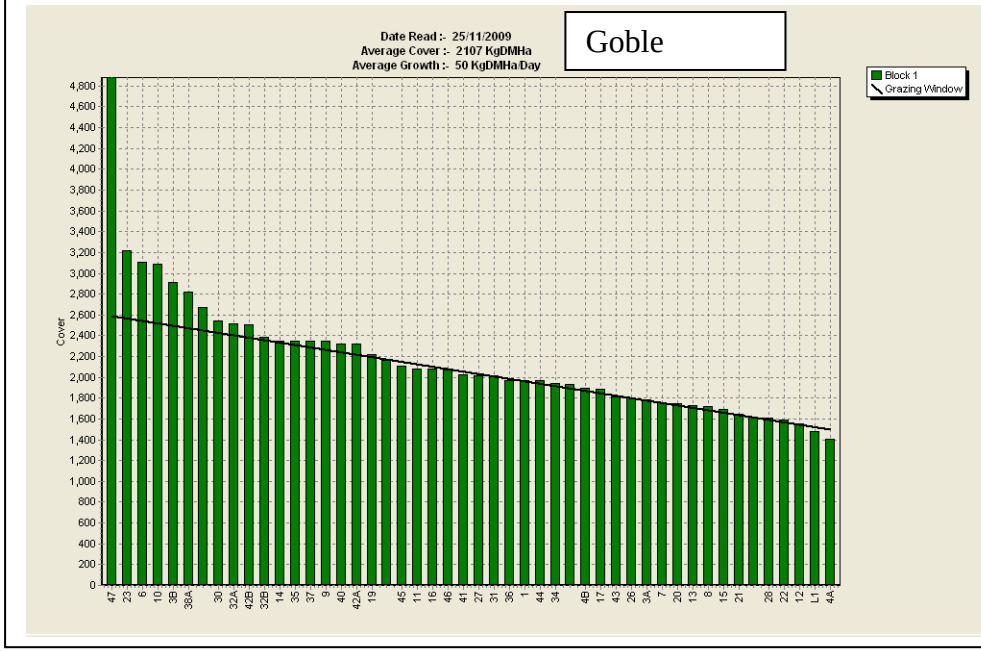
Soil Temperature



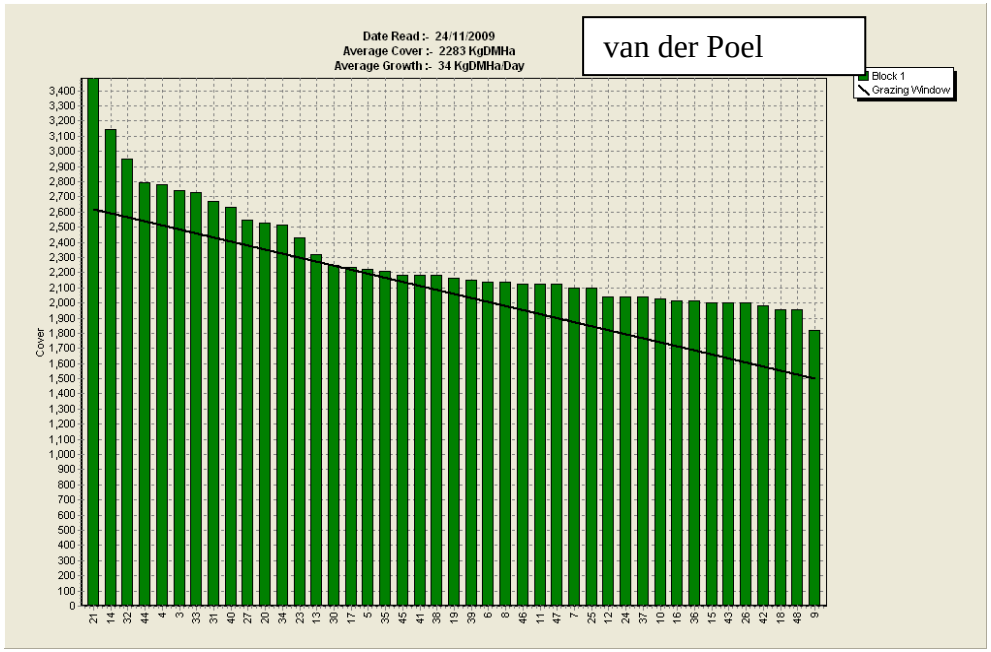
Frei



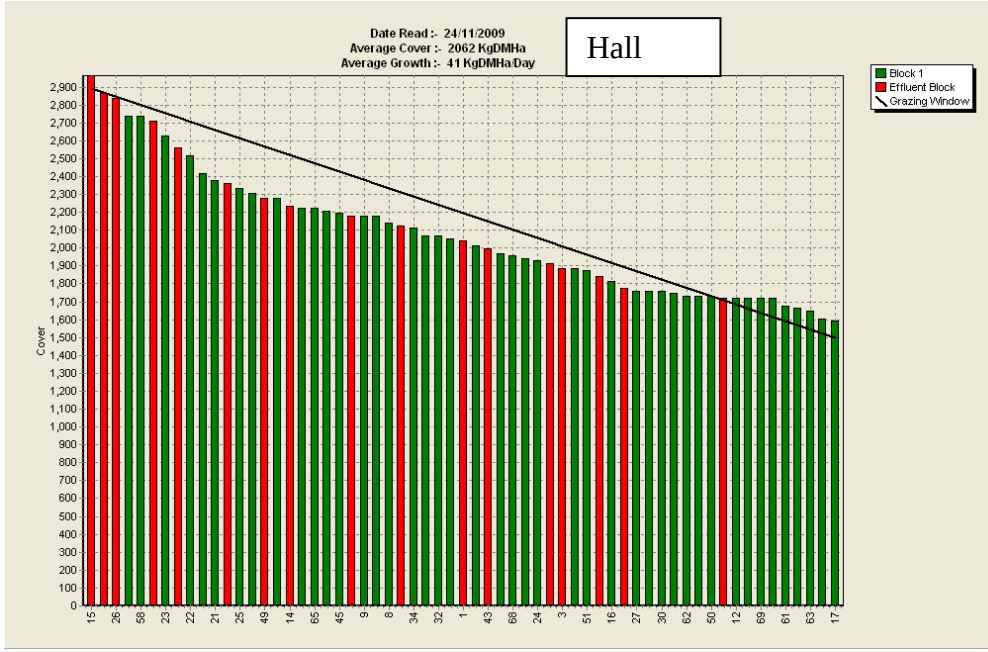
Goble



van der Poel



Hall



Pasture Quality

NOTE: We sample the paddocks immediately in front of the milkers, to height of 3.5cm (7 clicks on the rising plate meter). The RPM data in the table is the pre-grazing clicks recorded on the day of sampling.

Eastern Southland

Description	Date	RPM	% prot	% Lipid	% SSS	% NDF	% ADF	OMD	MJME/ kg DM	%DM
Pdk 66	10 Jun	11.5	22.1	4.3	14.4	45.7	23.7	79.9	11.9	21.7
Pdk 23	10 Jun	10.5	26.8	4.7	13.2	43.9	21.5	84.6	12.5	18.7
Pdk 23	30 Jun	12.2	25.9	4.4	12.3	41.8	24.2	82.4	12.0	19.6
Pdk 66	30 Jun	11.2	21.6	4.0	15.0	42.2	24.9	80.9	11.8	20.4
Pdk 66	4 Aug	12.5	22.6	4.2	11.5	47.0	25.0	79.1	11.6	16.3
Pdk 23	4 Aug	13.3	25.5	5.1	14.6	39.6	21.9	81.1	12.0	15.5
Pdk 66	18 Aug	13.3	22.3	3.9	11.4	49.2	26.5	78.4	11.5	15.9
Pdk 23	18 Aug	15.9	23.1	4.5	13.0	42.5	24.4	79.9	11.7	17.7
Halls 30	2 Sep	14.7	29.4	5.5	9.3	46.2	23.5	81.6	12.0	15.2
Halls 66	2 Sep	15.7	26.8	5.1	10.0	49.2	24.1	80.4	11.8	15.5
Hall 20	16 Sep	16.9	25.8	5.3	13.8	48.4	23.8	82.1	12.0	17.6
Hall 1	16 Sep	16.1	21.5	4.9	15.5	52.3	25.1	80.9	12.1	17.9
Hall 56	29 Sep	20.4	25.6	5.3	12.3	48.0	24.1	80.2	11.7	15.1
Hall 6	29 Sep	13.9	19.4	5.0	20.7	41.1	23.9	83.9	12.5	15.9
Hall 19	12 Oct		24.1	4.7	12.7	47.1	23.4	83.5	12.3	14.6
Hall 48	12 Oct		25.2	5.0	15.3	42.6	22.6	83.8	12.2	13.2
Hall 31	26 Oct		27.5	5.4	16.4	40.2	23.3	86.7	12.4	15.1
Hall 64	26 Oct		25.1	4.9	14.7	41.7	23.7	84.3	12.3	14.7

Central Southland

Description	Date	RPM	% prot	% Lipid	% SSS	% NDF	% ADF	OMD	MJME/kg DM	%DM
Pdk 2	10 Jun	7.3	24.1	4.5	12.5	49.1	24.2	77.9	11.8	25.3
Pdk 30	10 Jun	8.8	23.4	4.4	15.8	42.1	24.3	77.4	11.6	23.1
Pdk 2	30 Jun	7.5	25.2	4.8	13.0	44.5	24.6	79.4	11.8	20.8
Pdk 30	30 Jun	9.1	22.3	4.2	16.6	40.8	23.9	79.5	12.0	20.8
Pdk 30	4 Aug	9.9	22.1	4.4	13.8	44.5	23.3	80.9	12.1	21.7
Pdk 2	4 Aug	7.2	26.9	5.0	11.3	43.7	22.5	78.9	11.8	21.3
Pdk 3	18 Aug	11.9	24.7	5.4	13.5	41.1	23.0	83.1	12.2	19.9
Pdk 30	18 Aug	11.4	22.4	4.7	14.6	41.7	23.9	80.9	11.8	22.1
Pdk 3	2 Sep	11.7	18.3	4.5	16.5	45.7	24.1	80.4	12.2	17.0
Pdk 42	2 Sep	11.9	23.3	5.0	16.1	42.8	23.0	81.6	12.3	17.9
Pdk 14	16 Sep	11.5	26.3	5.8	15.9	43.2	23.0	85.5	12.4	19.3
Pdk 45	16 Sep	10.1	23.4	5.3	17.6	49.1	23.5	81.4	12.1	20.5
Pdk 30	29 Sep	12.5	27.1	5.7	17.7	38.4	23.5	84.5	12.1	14.3
Pdk 9	29 Sep	11.2	28.1	6.0	16.8	39.3	22.5	84.5	12.3	14.5
Pdk 14	12/10/09		28.4	5.5	17.0	34.5	22.0	90.8	>12.7	18.2
Pdk 2	12/10/09		25.0	5.2	17.7	38.7	22.0	88.2	>12.7	19.4
Pdk 13	26/10/09		27.2	5.5	15.4	38.9	24.1	85.9	12.5	16.1
Pdk 9	26/10/09		26.1	5.4	18.1	38.9	21.6	87.5	12.7	14.9

West Otago

Description	Date	RPM	% prot	% Lipid	% SSS	% NDF	% ADF	OMD	MJME/kg DM	%DM
Pdk 35	11 Jun	7.9	26.3	4.8	13.3	45.6	23.1	80.1	12.0	22.2
Pdk 9	11 Jun	8.6	25.6	4.9	13.6	41.1	21.4	78.9	12.1	20.7
Pdk 35	1 Jul	8.2	25.1	4.8	13.7	39.0	24.9	80.0	11.5	19.8
Pdk 9	1 Jul	9.5	24.0	4.9	15.1	39.6	24.4	79.9	11.6	21.0
Pdk 9	5 Aug	9.4	23.3	4.9	14.1	48.4	23.5	78.3	12.0	19.6
Pdk 35	5 Aug	7.4	24.4	5.0	12.8	46.7	24.9	75.0	11.2	20.4
Pdk 34	19 Aug	12.7	23.6	5.0	13.7	47.6	23.5	81.0	11.9	17.8
Pdk 9	19 Aug	9.6	23.6	5.2	13.2	49.5	24.0	79.3	11.8	18.0
Pdk 26	3 Sep	14	27.4	5.5	12.2	45.1	21.5	83.3	12.4	13.7
Pdk 36	3 Sep	12.9	23.2	5.2	15.9	41.7	22.8	83.2	12.5	15.7
Pdk 41	18 Sep	12.9	20.9	4.7	17.2	39.6	21.8	86.9	12.7	20.0
Pdk 15	18 Sep	15.7	23.9	5.3	13.8	41.7	23.0	83.9	12.2	17.1
Pdk 29	30 Sep	14.3	31.0	5.7	11.4	45.1	23.7	>85	12.2	12.1
Pdk 45	30 Sep	16.0	31.2	6.2	13.0	39.5	21.6	>85	12.7	11.8
Goble 15	15/10/09		28.1	5.7	14.6	43.4	22.5	87.5	12.7	13.3
Goble 28	15/10/09		28.5	5.6	13.9	43.7	23.8	82.5	12.0	13.6
Goble 17	29/10/09		26.8	5.0	14.2	45.0	24.2	83.1	12.0	--
Goble 37	29/10/09		22.7	5.0	17.1	44.2	23.7	83.7	12.3	--

Northern Southland

Description	Date	RPM	% prot	% Lipid	% SSS	% NDF	% ADF	OMD	MJME/kg DM	%DM
Pdk 9	11 Jun	17.4	22.3	4.0	14.6	45.8	24.2	78.7	11.7	18.7
Pdk 30	11 Jun	10.2	24.8	4.5	13.8	46.4	23.7	80.0	12.1	19.3
Pdk 9	1 Jul	15.5	22.3	4.3	18.3	37.2	22.9	80.0	11.9	21.6
Pdk 30	1 Jul	9.6	21.7	4.1	15.3	44.1	25.1	79.0	11.8	21.3
Pdk 9	6 Aug	15.8	23.1	4.1	13.6	49.2	24.9	75.3	11.4	19.3
Pdk 30	6 Aug	9.9	23.1	4.5	15.7	46.0	24.2	77.0	11.7	21.5
Pdk 10	19 Aug	13	23.6	4.7	17.8	42.1	23.8	81.3	11.9	21.2
Pdk 30	19 Aug	12.9	23.9	4.5	15.0	47.7	23.8	79.1	11.9	20.5
Pdk 17	3 Sep	9.4	26.1	5.6	17.9	38.5	20.7	86.8	>12.7	20.2
Pdk 3	3 Sep	16.1	27.0	5.7	14.5	43.2	21.2	86.3	>12.7	19.4
Pdk 13	18 Sep	7.6	27.7	4.8	15.9	37.9	23.2	87.9	>12.7	18.5
Pdk 15	18 Sep	9.2	22.9	4.3	17.4	42.0	24.4	83.6	12.3	20.1
Pdk 7	30 Sep	10.0	23.8	5.1	15.5	44.0	23.3	81.9	12.3	17.7
Frei 5	15 Oct		28.4	5.5	14.5	43.3	22.3	86.1	>12.7	14.4
Frei 6	15 Oct		25.1	5.3	18.2	41.5	23.4	85.4	12.7	14.4
Frei 26	29 Oct		30.9	5.4	13.5	38.5	22.3	87.4	12.7	--
Frei 7	29 Oct		25.3	5.0	16.3	44.1	23.6	85.1	12.5	--

Southland Monitor Farm Project

Weekly Update – 18 November 2009

Growth rates continued to ease across most of the region this week with the exception of Central and Northern Southland where they rose by 5 kg DM/ha/day. Growth this week was very similar to the average recorded in the same week last year (Figure 1). Associated with the drop in growth rate was a fall in soil temperature in all regions. Soil temperatures are currently 1.3 C lower than the same time last season but comparable to the 2007-08 season (Figure 2).

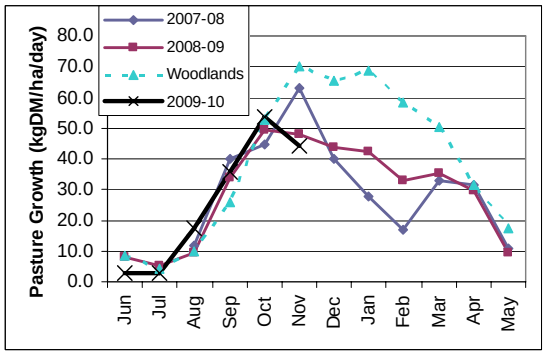


Figure 1. Monthly average pasture growth 2007-08, 2008-09 and 2009-2010

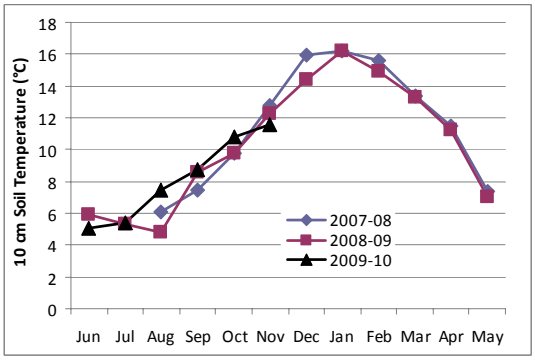


Fig 2 Monthly average soil temperature 2007-08, 2008-09 and 2009-2010

Milk production is holding well although several farms have now dropped below 2 kg MS/cow/day. The West Otago and Central Southland have paddocks shut for conservation. The Eastern Southland farm, with the highest stocking rate, is currently not meeting cow demand with daily pasture growth creating a deficit in the feed wedge.

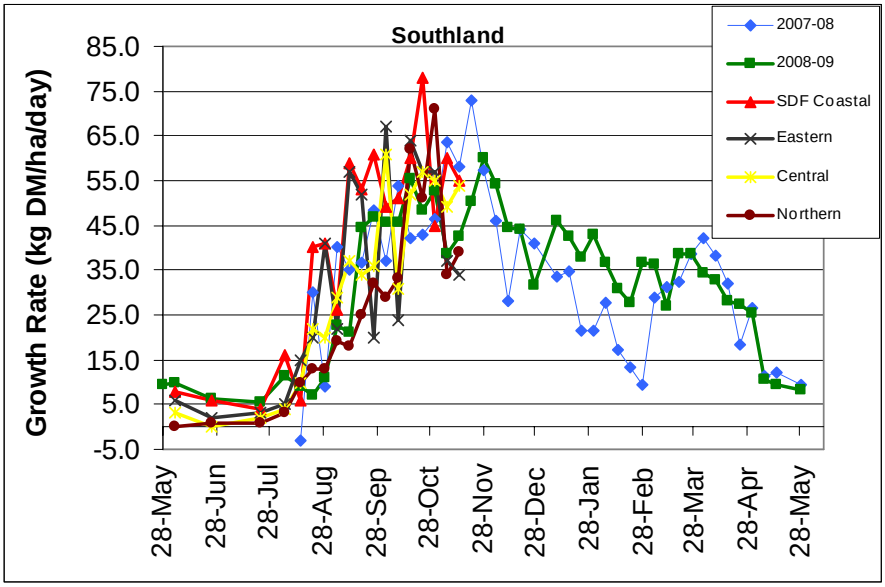
Weekly Tips

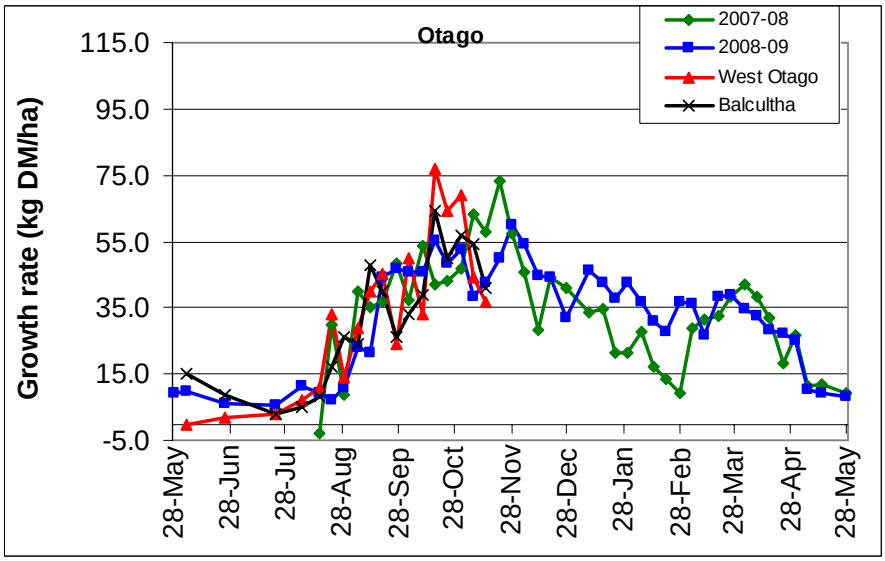
Continue monitoring average pasture cover and growth rates. Maintaining average pasture covers within a 200kgDM/ha range helps to retain quality and assists with decisions on supplementary feeding and conservation. Watch out for seed head emergence especially in paddocks with early heading varieties. Keeping residuals low and consistent will ensure the cows eat the seed head at an immature stage. Once the seed head hardens quality and palatability will decline.

Farm Summary

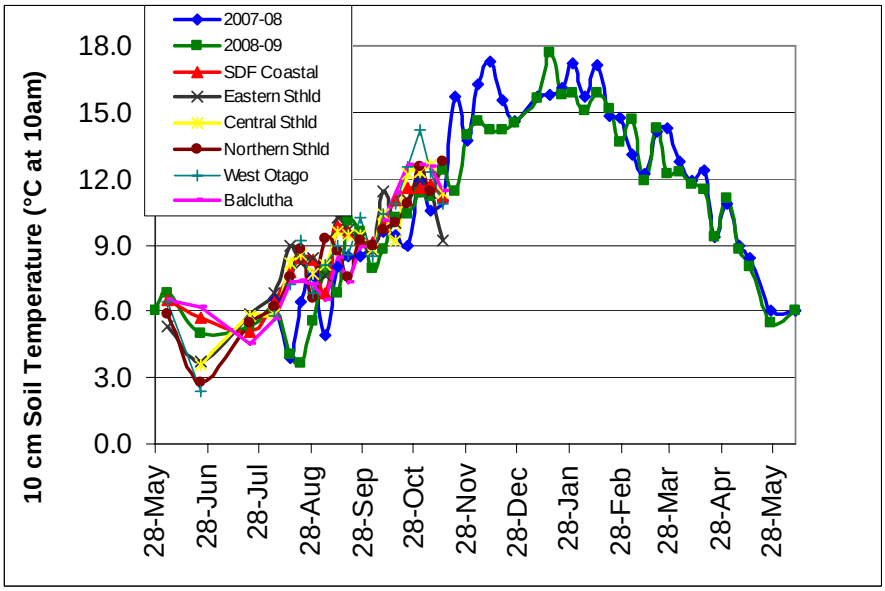
	Demo Farm	Eastern	Central	Northern	West Otago	Telford
Average cover (kg DM/ha)	2082	2065	2472	2091	2526	2125
Supplement (kg/cow/day)	0	0	1	0	0	0
Rotation length (days)	19	24	20	21	20	28
Stocking rate	2.86	3.06	2.96	2.6	2.87	2.9
Milksolids kg/cow	1.80	1.98	2.27	2.10	2.08	1.88
Milksolids kg/ha	4.7	5.9	6.4	5.5	5.8	5.5
N (kg/ha)	60		40			54
Soil temperature (°C)	11.2	9.2	11.3	12.8	10.9	11.4
Growth Rate (kg DM/day)	55	34	54	39	37	41
Rainfall	46	40	21	16	16	-
Comments						

Pasture Growth Rates

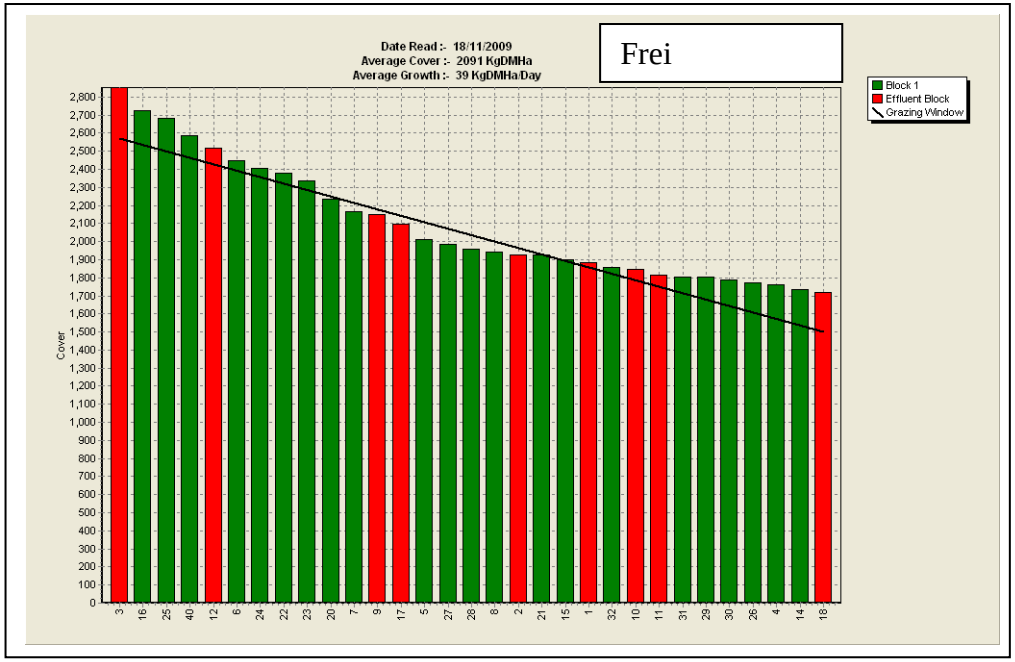




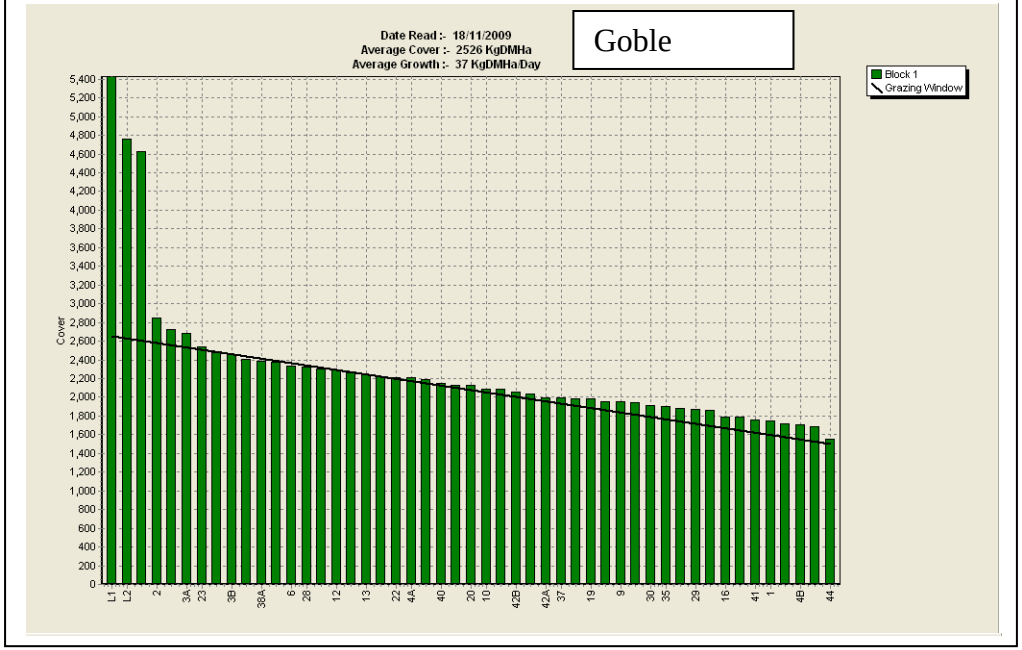
Soil Temperature



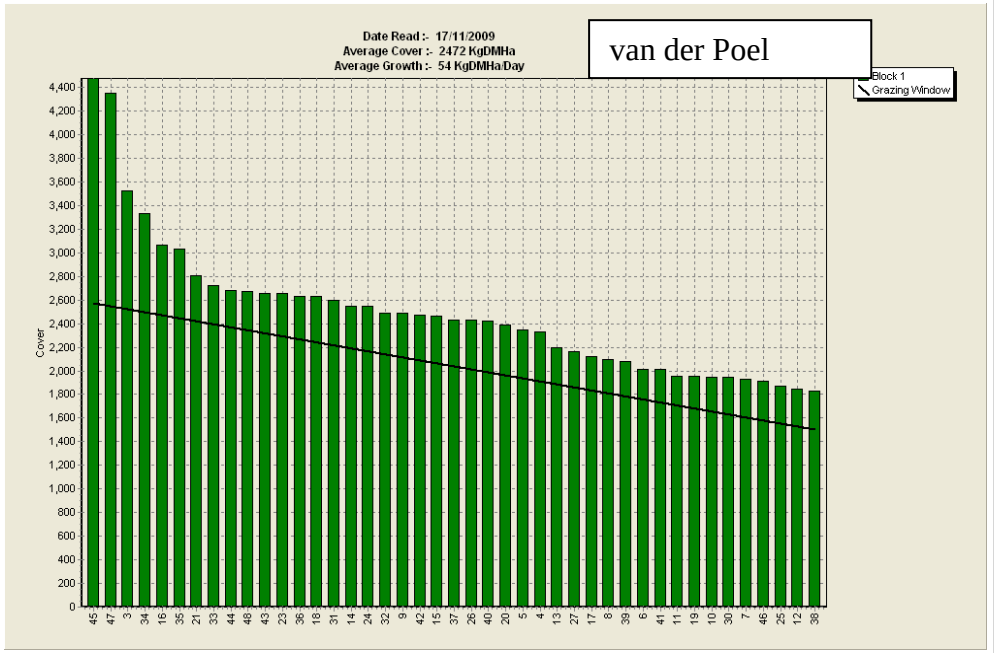
Frei



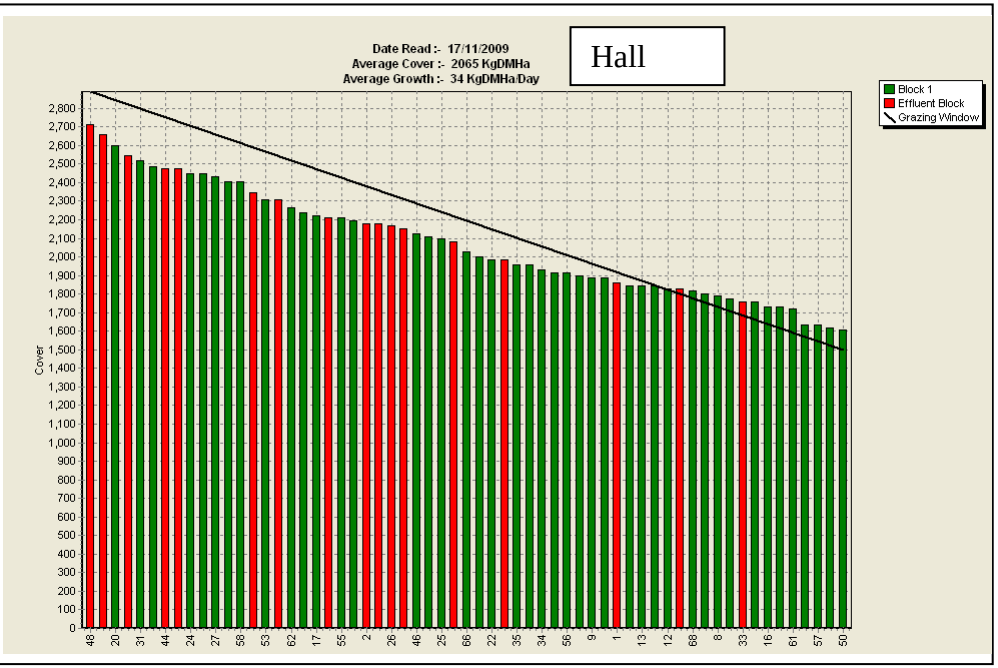
Goble



van der Poel



Hall



Pasture Quality

NOTE: We sample the paddocks immediately in front of the milkers, to height of 3.5cm (7 clicks on the rising plate meter). The RPM data in the table is the pre-grazing clicks recorded on the day of sampling.

Eastern Southland

Description	Date	RPM	% prot	% Lipid	% SSS	% NDF	% ADF	OMD	MJME/ kg DM	%DM
Pdk 66	10 Jun	11.5	22.1	4.3	14.4	45.7	23.7	79.9	11.9	21.7
Pdk 23	10 Jun	10.5	26.8	4.7	13.2	43.9	21.5	84.6	12.5	18.7
Pdk 23	30 Jun	12.2	25.9	4.4	12.3	41.8	24.2	82.4	12.0	19.6
Pdk 66	30 Jun	11.2	21.6	4.0	15.0	42.2	24.9	80.9	11.8	20.4
Pdk 66	4 Aug	12.5	22.6	4.2	11.5	47.0	25.0	79.1	11.6	16.3
Pdk 23	4 Aug	13.3	25.5	5.1	14.6	39.6	21.9	81.1	12.0	15.5
Pdk 66	18 Aug	13.3	22.3	3.9	11.4	49.2	26.5	78.4	11.5	15.9
Pdk 23	18 Aug	15.9	23.1	4.5	13.0	42.5	24.4	79.9	11.7	17.7
Halls 30	2 Sep	14.7	29.4	5.5	9.3	46.2	23.5	81.6	12.0	15.2
Halls 66	2 Sep	15.7	26.8	5.1	10.0	49.2	24.1	80.4	11.8	15.5
Hall 20	16 Sep	16.9	25.8	5.3	13.8	48.4	23.8	82.1	12.0	17.6
Hall 1	16 Sep	16.1	21.5	4.9	15.5	52.3	25.1	80.9	12.1	17.9
Hall 56	29 Sep	20.4	25.6	5.3	12.3	48.0	24.1	80.2	11.7	15.1
Hall 6	29 Sep	13.9	19.4	5.0	20.7	41.1	23.9	83.9	12.5	15.9
Hall 19	12 Oct		24.1	4.7	12.7	47.1	23.4	83.5	12.3	14.6
Hall 48	12 Oct		25.2	5.0	15.3	42.6	22.6	83.8	12.2	13.2
Hall 31	26 Oct		27.5	5.4	16.4	40.2	23.3	86.7	12.4	15.1
Hall 64	26 Oct		25.1	4.9	14.7	41.7	23.7	84.3	12.3	14.7

Central Southland

Description	Date	RPM	% prot	% Lipid	% SSS	% NDF	% ADF	OMD	MJME/kg DM	%DM
Pdk 2	10 Jun	7.3	24.1	4.5	12.5	49.1	24.2	77.9	11.8	25.3
Pdk 30	10 Jun	8.8	23.4	4.4	15.8	42.1	24.3	77.4	11.6	23.1
Pdk 2	30 Jun	7.5	25.2	4.8	13.0	44.5	24.6	79.4	11.8	20.8
Pdk 30	30 Jun	9.1	22.3	4.2	16.6	40.8	23.9	79.5	12.0	20.8
Pdk 30	4 Aug	9.9	22.1	4.4	13.8	44.5	23.3	80.9	12.1	21.7
Pdk 2	4 Aug	7.2	26.9	5.0	11.3	43.7	22.5	78.9	11.8	21.3
Pdk 3	18 Aug	11.9	24.7	5.4	13.5	41.1	23.0	83.1	12.2	19.9
Pdk 30	18 Aug	11.4	22.4	4.7	14.6	41.7	23.9	80.9	11.8	22.1
Pdk 3	2 Sep	11.7	18.3	4.5	16.5	45.7	24.1	80.4	12.2	17.0
Pdk 42	2 Sep	11.9	23.3	5.0	16.1	42.8	23.0	81.6	12.3	17.9
Pdk 14	16 Sep	11.5	26.3	5.8	15.9	43.2	23.0	85.5	12.4	19.3
Pdk 45	16 Sep	10.1	23.4	5.3	17.6	49.1	23.5	81.4	12.1	20.5
Pdk 30	29 Sep	12.5	27.1	5.7	17.7	38.4	23.5	84.5	12.1	14.3
Pdk 9	29 Sep	11.2	28.1	6.0	16.8	39.3	22.5	84.5	12.3	14.5
Pdk 14	12/10/09		28.4	5.5	17.0	34.5	22.0	90.8	>12.7	18.2
Pdk 2	12/10/09		25.0	5.2	17.7	38.7	22.0	88.2	>12.7	19.4
Pdk 13	26/10/09		27.2	5.5	15.4	38.9	24.1	85.9	12.5	16.1
Pdk 9	26/10/09		26.1	5.4	18.1	38.9	21.6	87.5	12.7	14.9

West Otago

Description	Date	RPM	% prot	% Lipid	% SSS	% NDF	% ADF	OMD	MJME/kg DM	%DM
Pdk 35	11 Jun	7.9	26.3	4.8	13.3	45.6	23.1	80.1	12.0	22.2
Pdk 9	11 Jun	8.6	25.6	4.9	13.6	41.1	21.4	78.9	12.1	20.7
Pdk 35	1 Jul	8.2	25.1	4.8	13.7	39.0	24.9	80.0	11.5	19.8
Pdk 9	1 Jul	9.5	24.0	4.9	15.1	39.6	24.4	79.9	11.6	21.0
Pdk 9	5 Aug	9.4	23.3	4.9	14.1	48.4	23.5	78.3	12.0	19.6
Pdk 35	5 Aug	7.4	24.4	5.0	12.8	46.7	24.9	75.0	11.2	20.4
Pdk 34	19 Aug	12.7	23.6	5.0	13.7	47.6	23.5	81.0	11.9	17.8
Pdk 9	19 Aug	9.6	23.6	5.2	13.2	49.5	24.0	79.3	11.8	18.0
Pdk 26	3 Sep	14	27.4	5.5	12.2	45.1	21.5	83.3	12.4	13.7
Pdk 36	3 Sep	12.9	23.2	5.2	15.9	41.7	22.8	83.2	12.5	15.7
Pdk 41	18 Sep	12.9	20.9	4.7	17.2	39.6	21.8	86.9	12.7	20.0
Pdk 15	18 Sep	15.7	23.9	5.3	13.8	41.7	23.0	83.9	12.2	17.1
Pdk 29	30 Sep	14.3	31.0	5.7	11.4	45.1	23.7	>85	12.2	12.1
Pdk 45	30 Sep	16.0	31.2	6.2	13.0	39.5	21.6	>85	12.7	11.8
Goble 15	15/10/09		28.1	5.7	14.6	43.4	22.5	87.5	12.7	13.3
Goble 28	15/10/09		28.5	5.6	13.9	43.7	23.8	82.5	12.0	13.6
Goble 17	29/10/09		26.8	5.0	14.2	45.0	24.2	83.1	12.0	--
Goble 37	29/10/09		22.7	5.0	17.1	44.2	23.7	83.7	12.3	--

Northern Southland

Description	Date	RPM	% prot	% Lipid	% SSS	% NDF	% ADF	OMD	MJME/kg DM	%DM
Pdk 9	11 Jun	17.4	22.3	4.0	14.6	45.8	24.2	78.7	11.7	18.7
Pdk 30	11 Jun	10.2	24.8	4.5	13.8	46.4	23.7	80.0	12.1	19.3
Pdk 9	1 Jul	15.5	22.3	4.3	18.3	37.2	22.9	80.0	11.9	21.6
Pdk 30	1 Jul	9.6	21.7	4.1	15.3	44.1	25.1	79.0	11.8	21.3
Pdk 9	6 Aug	15.8	23.1	4.1	13.6	49.2	24.9	75.3	11.4	19.3
Pdk 30	6 Aug	9.9	23.1	4.5	15.7	46.0	24.2	77.0	11.7	21.5
Pdk 10	19 Aug	13	23.6	4.7	17.8	42.1	23.8	81.3	11.9	21.2
Pdk 30	19 Aug	12.9	23.9	4.5	15.0	47.7	23.8	79.1	11.9	20.5
Pdk 17	3 Sep	9.4	26.1	5.6	17.9	38.5	20.7	86.8	>12.7	20.2
Pdk 3	3 Sep	16.1	27.0	5.7	14.5	43.2	21.2	86.3	>12.7	19.4
Pdk 13	18 Sep	7.6	27.7	4.8	15.9	37.9	23.2	87.9	>12.7	18.5
Pdk 15	18 Sep	9.2	22.9	4.3	17.4	42.0	24.4	83.6	12.3	20.1
Pdk 7	30 Sep	10.0	23.8	5.1	15.5	44.0	23.3	81.9	12.3	17.7
Frei 5	15 Oct		28.4	5.5	14.5	43.3	22.3	86.1	>12.7	14.4
Frei 6	15 Oct		25.1	5.3	18.2	41.5	23.4	85.4	12.7	14.4
Frei 26	29 Oct		30.9	5.4	13.5	38.5	22.3	87.4	12.7	--
Frei 7	29 Oct		25.3	5.0	16.3	44.1	23.6	85.1	12.5	--

Southland Monitor Farm Project

Weekly Update – 11 November 2009

Growth rates declined across the region this week although interestingly they are still 7 kg DM/ha/day higher than the same time last season. The trend in growth is exactly the same as that experienced in 2008-09 when growth dropped significantly in early November. Growth on the Woodlands Research farm is also considerably less this season than the long term average (Figure 1). Soil temperature remains higher than the same period last year.

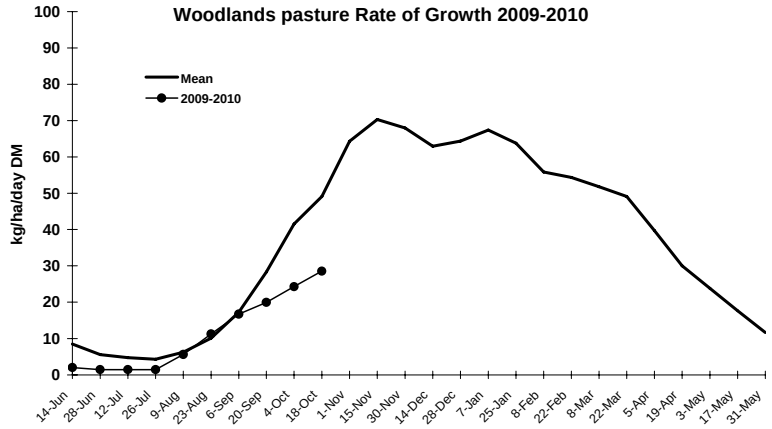


Figure 1: Woodlands 2009-10 growth compared with the longterm average growth.

The Central, Northern and West Otago farms have paddocks closed for conservation. Three paddocks of baleage were harvested on the West Otago farm this week. The small deficit starting to appear in the wedge on the Eastern farm has moved further up the wedge with this farm growing significantly less than their demand this week.

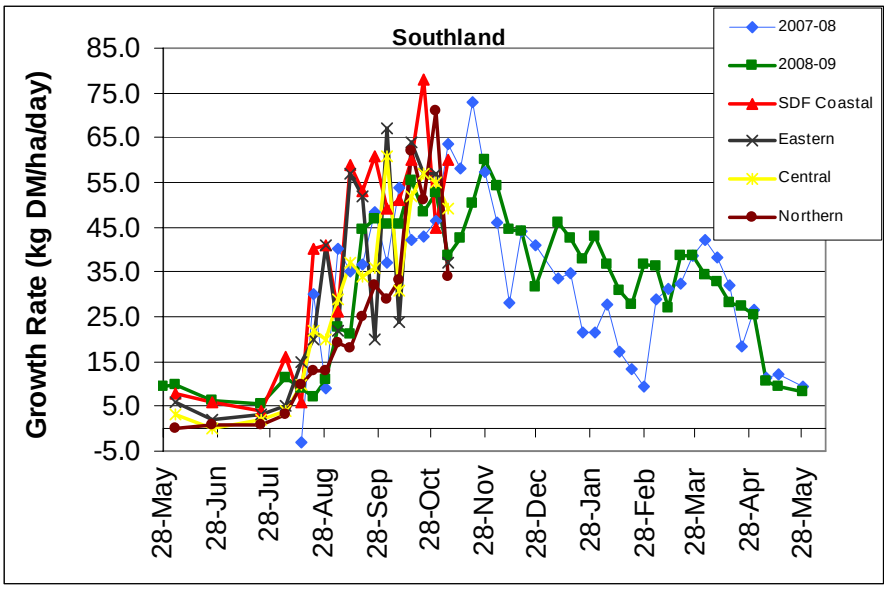
Weekly Tips

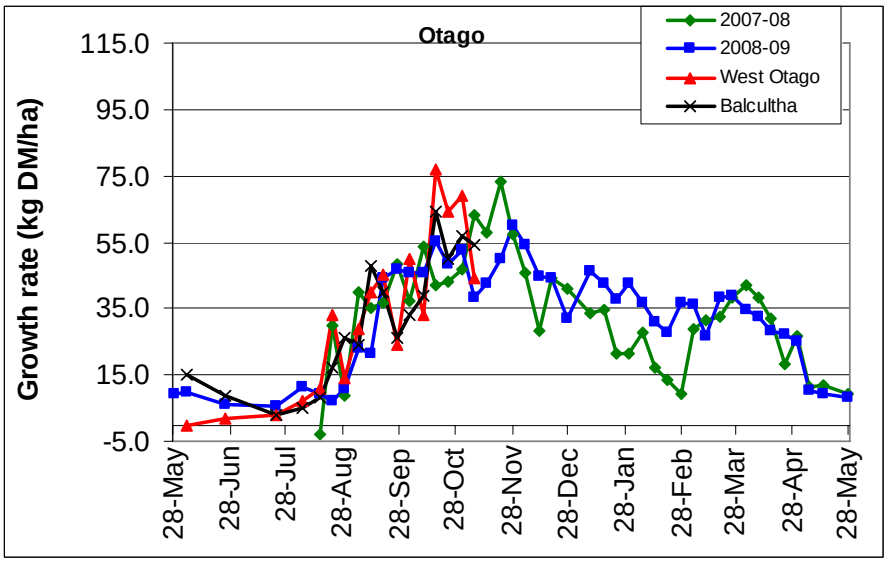
Now that winter crop paddocks have been sown, maximise your yield potential by ensuring spray applications are timely and while weeds are small. Weeds can quickly turn a good yielding crop into a poor one. Assess mating progress by monitoring average daily inseminations. If average daily insemination for the week is below your target early action will help mitigate long-term impacts. The InCalf book is a great resource for reproduction management (see www.dairynz.co.nz).

Farm Summary

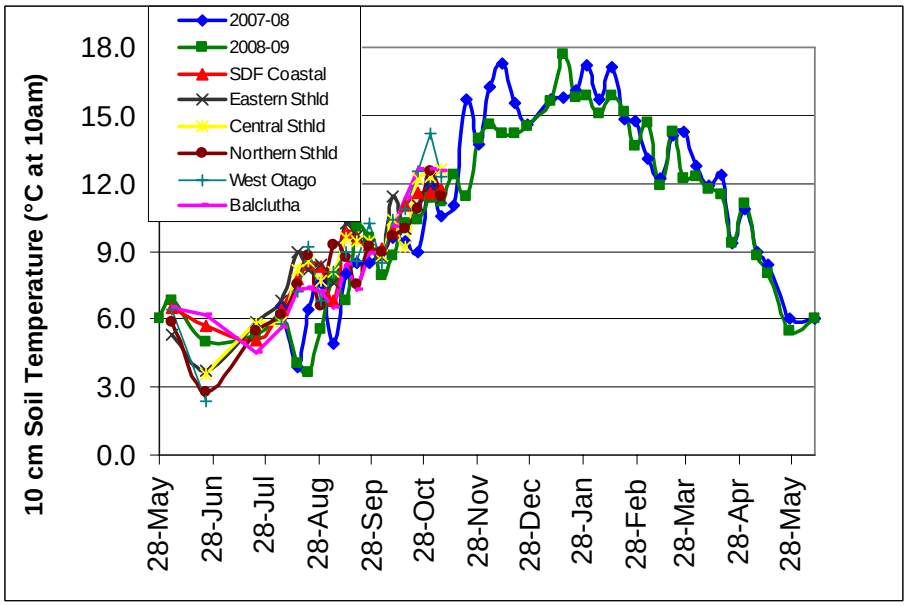
	Demo Farm	Eastern	Central	Northern	West Otago	Telford
Average cover (kg DM/ha)	2373	2111	2436	2172	2534	2194
Supplement (kg/cow/day)	0	0	1	0	0	0
Rotation length (days)	22	23	22	21	20	25
Stocking rate	3.1	3.1	3.0	2.6	2.9	2.9
% calved	95	100	100	100	100	100
Milksolids kg/cow	1.86	2.00	2.26	2.11	-	1.96
Milksolids kg/ha	4.9	5.9	6.4	5.5	-	5.7
N (kg/ha)	90	-	40	-	-	50
Soil temperature (°C)	11.7	11.3	12.6	11.4	12.3	12.5
Growth Rate (kg DM/day)	60	37	49	34	44	54
Rainfall	7	11	2	2	5	6
Comments						

Pasture Growth Rates

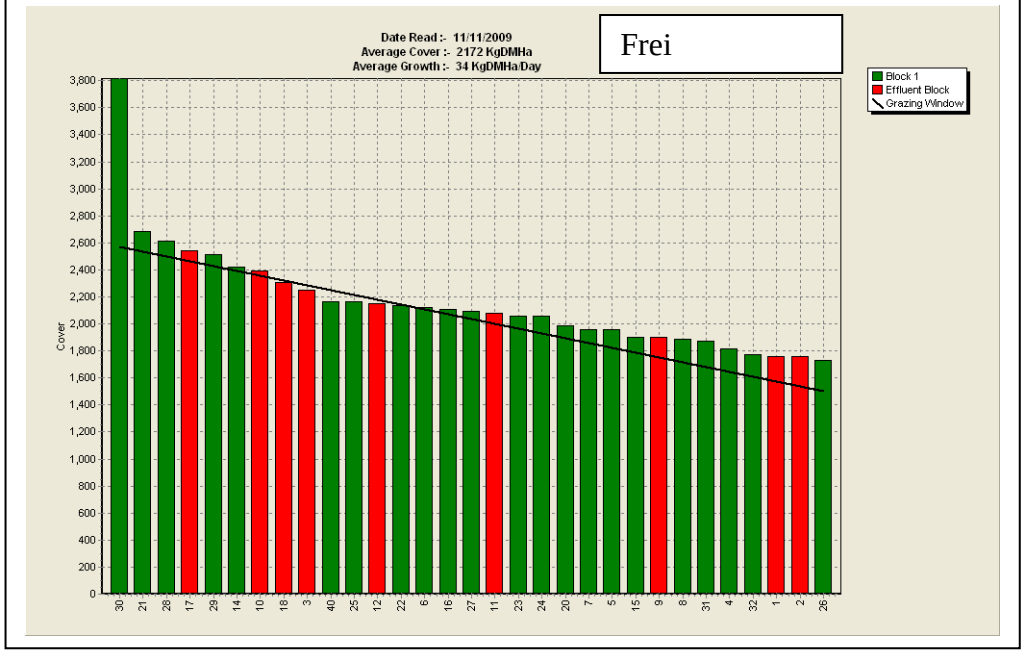




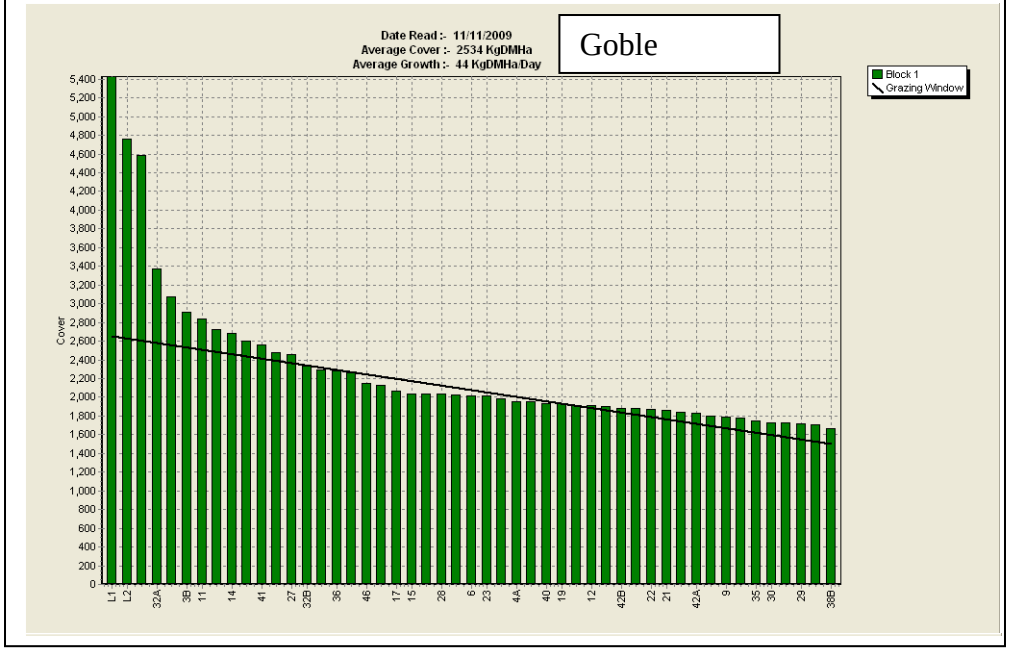
Soil Temperature



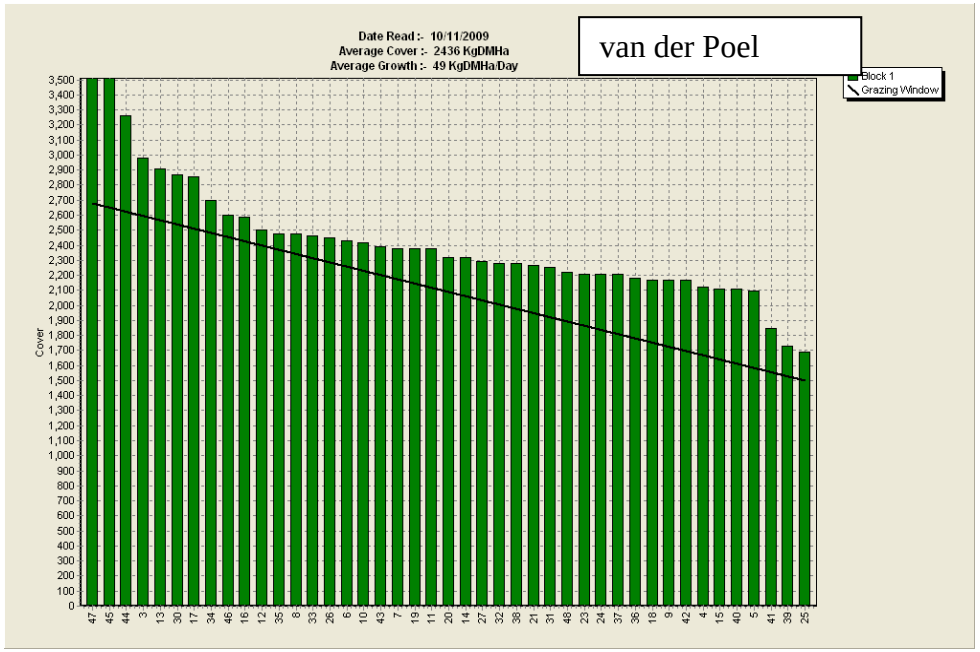
Frei



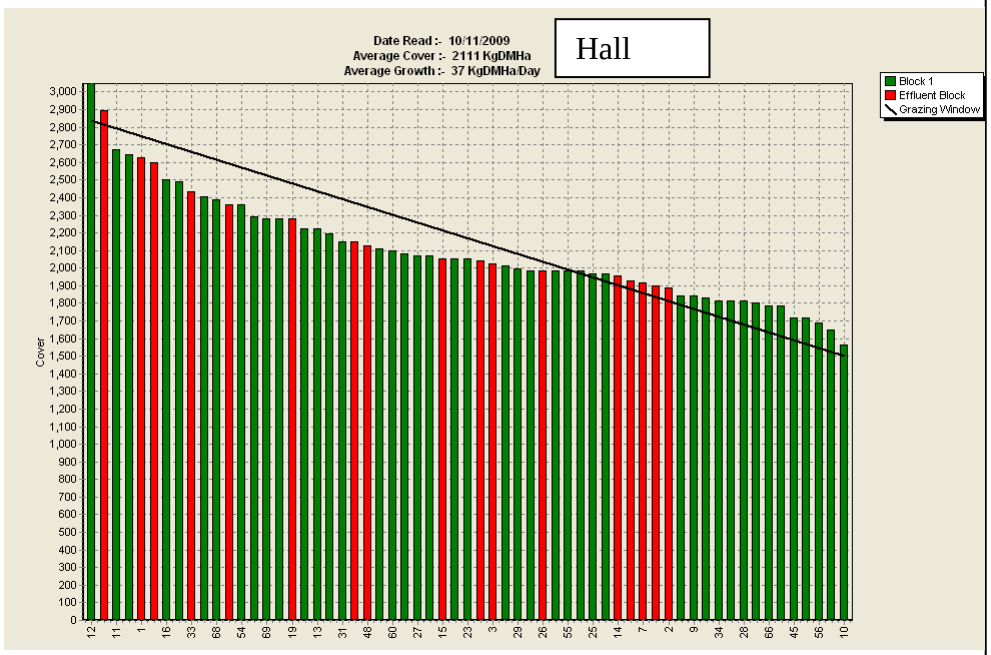
Goble



van der Poel



Hall



Pasture Quality

NOTE: We sample the paddocks immediately in front of the milkers, to height of 3.5cm (7 clicks on the rising plate meter). The RPM data in the table is the pre-grazing clicks recorded on the day of sampling.

Eastern Southland

Description	Date	RPM	% prot	% Lipid	% SSS	% NDF	% ADF	OMD	MJME/ kg DM	%DM
Pdk 66	10 Jun	11.5	22.1	4.3	14.4	45.7	23.7	79.9	11.9	21.7
Pdk 23	10 Jun	10.5	26.8	4.7	13.2	43.9	21.5	84.6	12.5	18.7
Pdk 23	30 Jun	12.2	25.9	4.4	12.3	41.8	24.2	82.4	12.0	19.6
Pdk 66	30 Jun	11.2	21.6	4.0	15.0	42.2	24.9	80.9	11.8	20.4
Pdk 66	4 Aug	12.5	22.6	4.2	11.5	47.0	25.0	79.1	11.6	16.3
Pdk 23	4 Aug	13.3	25.5	5.1	14.6	39.6	21.9	81.1	12.0	15.5
Pdk 66	18 Aug	13.3	22.3	3.9	11.4	49.2	26.5	78.4	11.5	15.9
Pdk 23	18 Aug	15.9	23.1	4.5	13.0	42.5	24.4	79.9	11.7	17.7
Halls 30	2 Sep	14.7	29.4	5.5	9.3	46.2	23.5	81.6	12.0	15.2
Halls 66	2 Sep	15.7	26.8	5.1	10.0	49.2	24.1	80.4	11.8	15.5
Hall 20	16 Sep	16.9	25.8	5.3	13.8	48.4	23.8	82.1	12.0	17.6
Hall 1	16 Sep	16.1	21.5	4.9	15.5	52.3	25.1	80.9	12.1	17.9
Hall 56	29 Sep	20.4	25.6	5.3	12.3	48.0	24.1	80.2	11.7	15.1
Hall 6	29 Sep	13.9	19.4	5.0	20.7	41.1	23.9	83.9	12.5	15.9
Hall 19	12 Oct		24.1	4.7	12.7	47.1	23.4	83.5	12.3	14.6
Hall 48	12 Oct		25.2	5.0	15.3	42.6	22.6	83.8	12.2	13.2
Hall 31	26 Oct		27.5	5.4	16.4	40.2	23.3	86.7	12.4	15.1
Hall 64	26 Oct		25.1	4.9	14.7	41.7	23.7	84.3	12.3	14.7

Central Southland

Description	Date	RPM	% prot	% Lipid	% SSS	% NDF	% ADF	OMD	MJME/kg DM	%DM
Pdk 2	10 Jun	7.3	24.1	4.5	12.5	49.1	24.2	77.9	11.8	25.3
Pdk 30	10 Jun	8.8	23.4	4.4	15.8	42.1	24.3	77.4	11.6	23.1
Pdk 2	30 Jun	7.5	25.2	4.8	13.0	44.5	24.6	79.4	11.8	20.8
Pdk 30	30 Jun	9.1	22.3	4.2	16.6	40.8	23.9	79.5	12.0	20.8
Pdk 30	4 Aug	9.9	22.1	4.4	13.8	44.5	23.3	80.9	12.1	21.7
Pdk 2	4 Aug	7.2	26.9	5.0	11.3	43.7	22.5	78.9	11.8	21.3
Pdk 3	18 Aug	11.9	24.7	5.4	13.5	41.1	23.0	83.1	12.2	19.9
Pdk 30	18 Aug	11.4	22.4	4.7	14.6	41.7	23.9	80.9	11.8	22.1
Pdk 3	2 Sep	11.7	18.3	4.5	16.5	45.7	24.1	80.4	12.2	17.0
Pdk 42	2 Sep	11.9	23.3	5.0	16.1	42.8	23.0	81.6	12.3	17.9
Pdk 14	16 Sep	11.5	26.3	5.8	15.9	43.2	23.0	85.5	12.4	19.3
Pdk 45	16 Sep	10.1	23.4	5.3	17.6	49.1	23.5	81.4	12.1	20.5
Pdk 30	29 Sep	12.5	27.1	5.7	17.7	38.4	23.5	84.5	12.1	14.3
Pdk 9	29 Sep	11.2	28.1	6.0	16.8	39.3	22.5	84.5	12.3	14.5
Pdk 14	12/10/09		28.4	5.5	17.0	34.5	22.0	90.8	>12.7	18.2
Pdk 2	12/10/09		25.0	5.2	17.7	38.7	22.0	88.2	>12.7	19.4
Pdk 13	26/10/09		27.2	5.5	15.4	38.9	24.1	85.9	12.5	16.1
Pdk 9	26/10/09		26.1	5.4	18.1	38.9	21.6	87.5	12.7	14.9

West Otago

Description	Date	RPM	% prot	% Lipid	% SSS	% NDF	% ADF	OMD	MJME/kg DM	%DM
Pdk 35	11 Jun	7.9	26.3	4.8	13.3	45.6	23.1	80.1	12.0	22.2
Pdk 9	11 Jun	8.6	25.6	4.9	13.6	41.1	21.4	78.9	12.1	20.7
Pdk 35	1 Jul	8.2	25.1	4.8	13.7	39.0	24.9	80.0	11.5	19.8
Pdk 9	1 Jul	9.5	24.0	4.9	15.1	39.6	24.4	79.9	11.6	21.0
Pdk 9	5 Aug	9.4	23.3	4.9	14.1	48.4	23.5	78.3	12.0	19.6
Pdk 35	5 Aug	7.4	24.4	5.0	12.8	46.7	24.9	75.0	11.2	20.4
Pdk 34	19 Aug	12.7	23.6	5.0	13.7	47.6	23.5	81.0	11.9	17.8
Pdk 9	19 Aug	9.6	23.6	5.2	13.2	49.5	24.0	79.3	11.8	18.0
Pdk 26	3 Sep	14	27.4	5.5	12.2	45.1	21.5	83.3	12.4	13.7
Pdk 36	3 Sep	12.9	23.2	5.2	15.9	41.7	22.8	83.2	12.5	15.7
Pdk 41	18 Sep	12.9	20.9	4.7	17.2	39.6	21.8	86.9	12.7	20.0
Pdk 15	18 Sep	15.7	23.9	5.3	13.8	41.7	23.0	83.9	12.2	17.1
Pdk 29	30 Sep	14.3	31.0	5.7	11.4	45.1	23.7	>85	12.2	12.1
Pdk 45	30 Sep	16.0	31.2	6.2	13.0	39.5	21.6	>85	12.7	11.8
Goble 15	15/10/09		28.1	5.7	14.6	43.4	22.5	87.5	12.7	13.3
Goble 28	15/10/09		28.5	5.6	13.9	43.7	23.8	82.5	12.0	13.6
Goble 17	29/10/09		26.8	5.0	14.2	45.0	24.2	83.1	12.0	--
Goble 37	29/10/09		22.7	5.0	17.1	44.2	23.7	83.7	12.3	--

Northern Southland

Description	Date	RPM	% prot	% Lipid	% SSS	% NDF	% ADF	OMD	MJME/kg DM	%DM
Pdk 9	11 Jun	17.4	22.3	4.0	14.6	45.8	24.2	78.7	11.7	18.7
Pdk 30	11 Jun	10.2	24.8	4.5	13.8	46.4	23.7	80.0	12.1	19.3
Pdk 9	1 Jul	15.5	22.3	4.3	18.3	37.2	22.9	80.0	11.9	21.6
Pdk 30	1 Jul	9.6	21.7	4.1	15.3	44.1	25.1	79.0	11.8	21.3
Pdk 9	6 Aug	15.8	23.1	4.1	13.6	49.2	24.9	75.3	11.4	19.3
Pdk 30	6 Aug	9.9	23.1	4.5	15.7	46.0	24.2	77.0	11.7	21.5
Pdk 10	19 Aug	13	23.6	4.7	17.8	42.1	23.8	81.3	11.9	21.2
Pdk 30	19 Aug	12.9	23.9	4.5	15.0	47.7	23.8	79.1	11.9	20.5
Pdk 17	3 Sep	9.4	26.1	5.6	17.9	38.5	20.7	86.8	>12.7	20.2
Pdk 3	3 Sep	16.1	27.0	5.7	14.5	43.2	21.2	86.3	>12.7	19.4
Pdk 13	18 Sep	7.6	27.7	4.8	15.9	37.9	23.2	87.9	>12.7	18.5
Pdk 15	18 Sep	9.2	22.9	4.3	17.4	42.0	24.4	83.6	12.3	20.1
Pdk 7	30 Sep	10.0	23.8	5.1	15.5	44.0	23.3	81.9	12.3	17.7
Frei 5	15 Oct		28.4	5.5	14.5	43.3	22.3	86.1	>12.7	14.4
Frei 6	15 Oct		25.1	5.3	18.2	41.5	23.4	85.4	12.7	14.4
Frei 26	29 Oct		30.9	5.4	13.5	38.5	22.3	87.4	12.7	--
Frei 7	29 Oct		25.3	5.0	16.3	44.1	23.6	85.1	12.5	--