



Samples collected December 2023 and collated by Tim Prance March 2024

phone 0427 812 655. All samples tested by Feed Test Lab, Werribee. This project received funding from the Australian Government's Future Drought Fund. Project number DNS_23_01 Filling Feed Gaps: Best Practice Hay and Silage Production.

The following tests were performed by Feed Test Lab. Dry Matter (%), Moisture (%), Crude Protein (% of dry matter), Acid Detergent Fibre (% of dry matter), Neutral Detergent Fibre (% of dry matter), Digestibility (DMD) (% of dry matter), Organic Matter Digestibility (DOMD) (Calculated) (% of dry matter), Est. Metabolisable Energy (Calculated) (MJ/kg DM), Water Soluble Carbohydrates (% of dry matter), Fat (% of dry matter), Ash (% of dry matter), Nitrogen (mg/kg of dry matter), RFV (% of dry matter), TDN (% of dry matter) and Horse DE (MJ/kg DM).

I have summarised the most important tests for ruminant livestock requiring a maintenance ration, which are Metabolisable Energy (ME), Crude protein (N x 6.25), digestibility (DMD), NDF, ADF, water soluble carbohydrates, relative feed value and % moisture.



sample #	location	sample type	comments	year baled	Sample composition			ME mj me (metabolisable energy) per kg dry matter	Crude protein %	digestibility of the dry matter (% DMD)	Neutral detergent fibre (NDF) %	acid detergent fibre (ADF) %	water soluble carbohydrates %	relative feed value %	recommended moisture %
Target							> 9.5	Over 14% for growing animals and 8% for dry animals	> 65	< 50. No less than 30%	< 28 and no less than 20%	at least 5% upto 20% is very good	100 = lucerne in full flower	12-14% hay 40-50% baled silage 60-70% chopped silage	
1	Wanilla	hay	pasture	2023	balansa clover	ryegrass		11.0	22	73	35	24	8	188	17
2	Wanilla	hay	pasture	2022	balansa clover	ryegrass		10.7	20	71	41	25	8	158	17
3	Ungarra	hay	pasture	2023	vetch			9.9	21	67	41	28	4	152	14
4	Ungarra	hay	pasture	2023	pasture	mixed species		10.3	10	69	50	24	23	132	14
12	Cockeleechie	silage	pasture	2023	vetch	ryecorn	annual grass	8.1	9	51	70	44	<1	73	58
13	Cockeleechie	hay	pasture	2023	vetch	ryecorn	annual grass	8.6	7	59	58	32	18	101	12
31	Tumby Bay	silage	pasture	2023	oat	vetch		10.3	17	68	48	29	5	128	62
32	Tumby Bay	silage	pasture	2023	oat	vetch		8.8	12	57	63	34	2	93	61
33	Tumby Bay	haylage	pasture	2023	oat	vetch		10.3	15	68	55	28	11	114	28
17	Streaky Bay	hay	pasture	2022	medic			7.8	21	55	48	32	1.5	124	13
24	Piednippe	hay	pasture	2022	medic			7.4	19	53	51	35	<1	128	11
29	White Flat	hay	cereal	2023	barley			8.3	13	58	63	34	6	92	15
30	Koppio	hay	cereal	2023	oaten			9.1	7	62	55	28	20	113	17
25	Tumby Bay	hay	cereal	2021	oaten			8.5	13	59	59	30	4	103	17
26	Tumby Bay	hay	cereal	2022	oaten			6.7	9	48	69	37	4	80	13
27	Tumby Bay	hay	cereal	2023	oaten			9.8	12	67	52	25	5	123	13
28	Tumby Bay	hay	cereal	2023	oaten			9.4	10	64	52	28	4	120	15
34	Tumby Bay	hay	cereal	2023	wheaten			9.1	15	62	60	32	5	99	24
35	Lock	hay	frosted cereal	2022	wheaten			8.8	7	60	54	27	22	117	13
5	Ungarra	hay	frosted wheat - on vetch stubble	2023	wheaten			9.3	9	63	55	27	21	114	13
6	Ungarra	hay	frosted wheat - on canola stubble	2023	wheaten			9.3	8	63	55	29	22	113	13
7	Cummins	hay	cereal	2022	oaten			6.9	6	50	69	38	9	79	12
8	Cummins	hay	cereal	2023	oaten			9.4	8	64	55	28	21	114	14
9	Yeelanna	hay	cereal	2023	barley			9.3	9	63	57	29	19	109	12
10	Yeelanna	hay	cereal	2023	wheaten			8.5	7	59	62	34	15	94	12
11	Yeelanna	hay	cereal	2023	oaten			7.5	5	53	62	37	16	90	12
36	Streaky Bay	hay	cereal	2023	barley			9.7	8	66	54	25	20	120	15
15	Streaky Bay	hay	cereal	2022	oaten			6.6	9	48	71	39	2	76	12
16	Streaky Bay	hay	cereal	2021	oaten			8.3	9	58	64	33	11	93	14
18	Perlubie	hay	old hay Shearing Shed	2021	oaten			7.9	6	56	63	33	11	93	13
19	Perlubie	hay	new hay	2022	oaten			9.8	6	67	54	25	26	120	15
20	Chandada	hay	new hay - west	2023	oaten			8	5	56	64	33	17	92	11
21	Chandada	hay	old hay - east	2022	oaten			9.2	8	63	53	26	23	121	12
22	Piednippe	hay	cereal	2022	barley			10.6	8	71	48	23	30	140	15
23	Piednippe	hay	cereal	2022	oaten			10.1	5	68	50	24	32	130	14