

**TABLE SHOWING MEAN AND RANGE OF QUALITY MEASUREMENTS
OF HAY SAMPLES FROM THE 2018/2019 SEASON.**
(Source FEEDTEST 01 Sep 18 – 29 April 19)

Description	No. of Samples		Crude Protein CP (%)	Dry Matter Digestibility DMD (%)	Metabolisable Energy ME (MJ/kg DM)	Neutral Detergent Fibre NDF (%)	Acid Detergent Fibre ADF (%)
Hay, Legume	181	Mean Range	12.7 5.1 – 25.5	64.4 45.8 – 84.0	9.5 6.3 – 12.8	50.2 28.1 – 76.5	30.7 16.3 – 45.9
Hay, Legume/Grass (Legume dominant)	88	Mean Range	12.5 5.3 – 22.0	64.3 49.4 – 80.9	9.4 6.9 – 12.3	52.7 36.1 – 69.3	30.6 17.5 – 44.4
Hay, Grass/Legume (Grass dominant)	316	Mean Range	11.5 1.8 – 24.3	62.9 38.8 – 77.7	9.2 5.1 – 11.8	57.5 37.0 – 79.7	32.1 20.1 – 50.5
Hay, Grass	356	Mean Range	9.2 1.4 – 24.6	60.1 33.7 – 80.5	8.7 4.2 – 12.2	62.1 32.9 – 84.0	34.4 19.4 – 50.9
Hay, Cereal	945	Mean Range	8.1 0.2 – 18.4	65.1 19.8- 82.7	9.6 1.8 – 12.6	53.3 36.3 – 87.8	27.5 16.3 – 58.8
Hay, Cereal/Legume	198	Mean Range	10.6 3.6 – 22.2	65.3 46.6 – 80.4	9.6 6.4 – 12.2	53.8 38.6 – 74.7	28.7 18.1 – 42.8
Hay, Cereal/Pasture	108	Mean Range	8.5 3.1 – 20.2	63.5 46.5 – 78.3	9.3 6.4 – 11.8	57.9 41.0 – 75.3	30.1 18.6 – 41.8

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Description	No. of Samples		Dry Matter DM (%)	Crude Protein CP (%)	Dry Matter Digestibility DMD (%)	Metabolisable Energy ME (MJ/kg DM)	Neutral Detergent Fibre NDF (%)	Acid Detergent Fibre (%)
Silage, Legume	108	Mean Range	54.9 27.0 – 84.9	19.3 5.4 – 27.3	69.4 51.5 – 85.4	10.5 8.1 – 12.8	41.7 24.7 – 69.1	27.6 11.7 – 40.8
Silage, Legume/Grass (Legume dominant)	37	Mean Range	50.3 27.9 – 71.9	15.9 10.4-24.0	70.2 56.8 - 81.5	10.6 8.8 - 12.4	48.4 32.8 – 60.8	27.4 18.5 - 36.9
Silage, Grass/Legume (Grass dominant)	159	Mean Range	49.2 25.2 – 82.2	14.8 7.9-24.1	69.5 44.2 - 83.3	10.5 7.1-12.4	50.7 34.8 – 72.4	28.1 18.0 – 46.2
Silage, Grass	440	Mean Range	46.3 18.4 – 85.5	13.9 2.2-26.4	69.3 40.8 - 82.4	10.5 6.2 - 12.5	52.2 32.0 – 79.7	28.8 17.5-47.0
Silage, Cereal	152	Mean Range	54.1 21.2 – 84.3	12.2 5.5-23.5	68.6 50.0 – 81.9	10.4 7.9-12.5	50.2 34.3 – 73.1	26.8 17.0-42.7
Canola Silage	100	Mean Range	52.7 22.6 – 81.3	16.7 9.9 – 25.8	67.7 31.0 – 83.9	10.2 4.2 – 12.8	38.7 24.0 – 60.8	28.8 16.2 – 46.0

								Starch (%)
Silage, Maize	62	Mean Range	33.0 22.0-52.1	8.2 5.0 – 12.9	68.0 54.9 – 77.3	10.2 8.4-11.6	50.2 41.4 – 64.2	29.6 12.6 – 48.8
Fresh Maize	62	Mean Range	37.4 21.1 – 55.2	8.1 5.2-11.7	68.5 52.6 – 76.6	10.2 7.4 - 11.6	47.6 37.5 – 62.7	34.9 17.0 – 52.2

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**TABLE SHOWING MEAN AND RANGE OF QUALITY MEASUREMENTS
OF GRAIN SAMPLES FROM THE 2018/2019 SEASON.**

(Source FEEDTEST 01 Sep 18 – 29 April 19)

Description	No. of Samples		Density (kgs per hectolitre)	Crude Protein CP (%) (N x 6.25)	Dry Matter Digestibility DMD (%)	Metabolisable Energy ME (MJ/kg DM)	Acid Detergent Fibre (%)	Starch (%)
Oats	92	Mean Range	50.2 26.7 - 61.5	12.1 7.7 – 16.9	71.8 57.3 - 83.5	12.4 10.4 – 13.9	14.6 7.9 - 21.6	48.5 34.4 - 63.9
Barley	259	Mean Range	63.0 36.6 – 79.6	12.2 7.8 – 19.7	87.8 84.3 - 91.6	13.3 12.6 - 13.8	6.7 3.0 – 10.4	67.4 31.5 - 76.0
Wheat	98	Mean Range	74.7 50.4 – 84.7	13.8 8.8 - 20.9	92.0 89.5 – 95.2	13.9 13.6 - 14.3	4.0 2.7 – 7.4	76.1 65.5 - 82.2
Triticale	<30		Insufficient	Data				
Lupins	58	Mean Range	-	32.4 17.1 – 39.2	88.3 75.3 - 95.0	14.6 12.2-15.6	19.4 11.7 – 32.6	-
Lentils	37	Mean Range	-	25.9 23.5 – 29.7	93.4 89.9 – 96.7	13.4 12.9 – 14.5	8.9 7.3 – 10.9	-

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(Source FEEDTEST 01 Sep 18 – 29 April 19)

Description	No. of samples		Crude Protein CP (%)	Dry Matter Digestibility DMD (%)	Metabolisable Energy ME (MJ/kg DM)	Neutral Detergent Fibre NDF (%)	Acid Detergent Fibre ADF (%)	Water Soluble Carbohydrates WSC (%)
Hay, Barley	294	Mean Range	9.4 0.2 – 18.1	68.8 33.9 – 79.3	9.9 4.2 – 12.0	51.1 39.8 – 83.2	24.9 17.3 – 48.2	24.9 1.2 - 36.8
Hay, Oaten	793	Mean Range	8.7 1.0 – 25.7	67.3 38.2 – 85.2	10.0 5.0 – 13.0	51.8 31.9 – 79.1	26.9 16.1 – 55.9	24.1 0.5 - 42.6
Hay, Triticale	<30	Mean Range	Insufficient Data					
Hay, Wheaten	866	Mean Range	10.2 2.1 – 20.0	66.3 36.4 - 82.4	9.8 4.7 - 12.6	51.9 37.2 – 79.0	26.3 18.2-44.6	23.4 0.2 – 41.0

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Description	No. of Samples		Crude Protein CP (%)	Dry Matter Digestibility DMD (%)	Metabolisable Energy ME (MJ/kg DM)	Neutral Detergent Fibre NDF (%)	Acid Detergent Fibre ADF (%)
Hay, Lucerne	368	Mean Range	19.5 4.5 - 28.7	64.9 39.1 – 76.9	9.5 5.1 – 11.6	43.4 31.1 – 72.0	30.3 19.6 – 49.2
Hay, Clover (unspecified)	63	Mean Range	14.7 7.2 – 20.9	65.4 45.6 – 78.8	9.6 6.2 - 11.9	47.1 32.2 – 63.4	28.5 17.1 - 45.8
Hay, Balansa Clover	24	Mean Range	16.2 11.9 – 20.9	67.5 60.9 – 76.1	10.0 8.9 – 11.5	44.5 53.2 – 54.7	26.9 14.3 – 35.8
Hay, Medic	25	Mean Range	16.4 4.1 – 20.4	65.7 45.2 – 70.7	9.7 7.7 – 11.3	47.0 34.9 – 66.0	27.5 23.1 – 36.4
Hay, Vetch	413	Mean Range	19.3 2.4 - 27.3	67.2 27.8 – 83.9	9.9 3.2 - 12.8	45.2 28.6 – 72.9	27.2 17.0 – 47.0
Hay, Canola	863	Mean Range	14.5 3.7 – 26.0	63.9 28.1 – 84.1	9.4 3.2 – 12.8	43.0 27.2 – 67.0	31.5 15.5 – 53.8
Hay Canola	440	Mean Range		Nitrate (PPM) 440 24 - 1600			

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