

**FRESH CORN SILAGE SUMMARY**  
SEPTEMBER TO OCTOBER 2013

Item	N° Samples	Mean	S.D.	CV (%)
Moisture, %	486	61.74	6.93	11.2
Protein, % (N x 6.25)	485	7.37	0.95	12.9
ADF-CP, %	468	0.86	0.17	19.5
NDF-CP, %	468	2.28	0.57	24.8
Acid Detergent Fibre, %	484	22.61	3.70	16.4
aNeutral Detergent Fibre, %	479	42.89	5.09	11.9
NDF Digestibility (48hr), %	265	59.26	1.54	2.6
Lignin, %	468	2.3	0.77	31.5
Starch, %	479	29.33	6.52	22.2
Fat, %	472	2.48	0.50	20.1
Milk per Ton, kg	263	1332.8	115.3	8.7
Ash, %	468	3.42	0.66	19.2
Calcium, %	480	0.17	0.09	51.1
Phosphorus, %	480	0.22	0.03	13.8
Potassium, %	480	0.99	0.23	23.0
Magnesium, %	480	0.13	0.03	25.2

**CORN SILAGE SUMMARY**  
SEPTEMBER TO NOVEMBER 2013

Item	N° Samples	Mean	S.D.	CV (%)
Moisture, %	531	62.89	5.94	9.4
Protein, % (N x 6.25)	526	7.69	0.91	11.9
Soluble protein, %	517	2.57	0.68	26.5
ADF-CP, %	520	0.91	0.15	16.3
NDF-CP, %	520	1.87	0.31	16.7
Acid Detergent Fibre, %	525	22.29	2.77	12.4
aNeutral Detergent Fibre, %	524	42.1	3.89	9.2
NDF Digestibility (24 h), %	332	39.06	2.27	5.8
NDF Digestibility (48 h), %	337	59.00	2.06	3.5
Lignin, %	519	3.0	0.53	16.9
Starch, %	526	30.94	5.62	18.2
Fat, %	521	2.64	0.34	12.9
Ash, %	520	3.71	0.69	18.6
Calcium, %	527	0.20	0.05	25.9
Phosphorus, %	527	0.21	0.03	14.2
Potassium, %	527	0.86	0.15	17.7
Magnesium, %	527	0.14	0.03	22.5

**HAY SUMMARY**  
JUNE - SEPTEMBER 2013

Item	N° Samples	Mean	S.D.	CV (%)
<b><i>Legume Hay – 1<sup>st</sup> cut</i></b>				
Moisture, %	35	11.29	3.21	28.4
Protein, % (N x 6.25)	35	16.44	3.48	21.2
Soluble protein, %	33	4.81	1.65	34.3
ADF-CP, %	33	1.53	0.33	21.8
NDF-CP, %	17	6.12	1.14	18.6
Acid Detergent Fibre, %	35	36.46	5.27	14.5
aNeutral Detergent Fibre, %	34	48.12	7.57	15.7
Lignin, %	33	8.96	2.08	23.2
Starch, %	23	0.78	0.42	53.4
Fat, %	17	1.67	0.37	22.0
Ash, %	17	9.33	0.83	8.8
Calcium, %	35	1.10	0.35	32.3
Phosphorous, %	35	0.27	0.05	19.1
Potassium, %	35	2.06	0.46	22.2
Magnesium, %	35	0.25	0.09	33.6
Relative Feed Value	34	121.35	25.87	21.3
<b><i>Grass Hay – 1<sup>st</sup> cut</i></b>				
Moisture, %	376	11.40	7.20	63.0
Protein, % (N x 6.25)	347	14.92	5.26	35.3
Soluble protein, %	42	3.00	1.02	33.8
ADF-CP, %	42	1.37	0.46	33.6
NDF-CP, %	36	6.05	1.69	27.9
Acid Detergent Fibre, %	347	32.60	7.65	23.5
aNeutral Detergent Fibre, %	343	51.72	7.75	15.0
Lignin, %	42	8.05	2.58	32.1
Fat, %	37	1.75	0.36	20.4
Ash, %	38	7.70	1.18	15.3
Calcium, %	373	0.54	0.29	53.8
Phosphorous, %	373	0.31	0.08	25.1
Potassium, %	373	2.72	0.73	26.9
Magnesium, %	373	0.15	0.06	37.3
Relative Feed Value	343	118.00	26.39	22.4
<b><i>Mixed Hay – 1<sup>st</sup> cut</i></b>				
Moisture, %	454	10.93	6.77	62.0
Protein, % (N x 6.25)	448	13.53	3.40	25.2
Soluble protein, %	308	4.10	1.48	36.2
ADF-CP, %	307	1.42	0.28	19.9
NDF-CP, %	280	1.70	0.68	40.0
Acid Detergent Fibre, %	420	39.13	4.93	12.6
aNeutral Detergent Fibre, %	414	55.39	6.49	11.7
Lignin, %	307	7.89	1.54	19.5
Fat, %	207	1.76	0.45	25.8
Ash, %	203	8.00	1.22	15.3
Calcium, %	442	0.74	0.30	40.9
Phosphorous, %	442	0.25	0.06	23.9
Potassium, %	440	2.11	0.57	27.0
Magnesium, %	440	0.18	0.06	32.0
Relative Feed Value	414	100.10	18.60	18.6

<b>Hay – 2<sup>nd+</sup> cut</b>				
Moisture, %	297	11.27	3.67	32.6
Protein, % (N x 6.25)	297	17.35	2.71	15.6
Soluble protein, %	198	4.87	1.47	30.3
ADF-CP, %	198	1.45	0.30	20.5
NDF-CP, %	194	1.96	0.41	21.2
Acid Detergent Fibre, %	285	36.38	5.43	14.9
aNeutral Detergent Fibre, %	281	48.62	5.93	12.2
Lignin, %	196	7.96	1.77	22.2
Fat, %	194	1.96	0.41	21.2
Ash, %	194	9.46	0.87	9.2
Calcium, %	297	1.10	0.25	22.7
Phosphorous, %	297	0.30	0.05	15.7
Potassium, %	297	2.44	0.58	23.8
Magnesium, %	297	0.25	0.06	24.9
Relative Feed Value	281	117.87	21.08	17.9
<b>Hay for Horses</b>				
Moisture, %	149	13.84	12.80	92.7
Protein, % (N x 6.25)	149	12.13	3.85	31.7
Soluble protein, %	125	3.22	1.48	45.9
ADF-CP, %	125	1.45	0.28	19.1
NDF-CP, %	113	4.93	1.35	27.3
Acid Detergent Fibre, %	127	38.24	4.54	11.9
aNeutral Detergent Fibre, %	127	54.81	6.94	12.7
Sugars (simple sugars)	112	2.30	0.94	40.8
Calcium, %	127	0.72	0.35	48.9
Phosphorous, %	127	0.20	0.06	32.6
Potassium, %	127	1.61	0.42	26.0
Magnesium, %	127	0.19	0.08	39.7
Relative Feed Value	127	102.82	20.45	19.9
Digestible Energy (Mcal/kg)	122	2.07	0.21	9.9

Hay – 2<sup>nd+</sup> cut - Any second or third cut from 50% or more legume or grass

## HAYLAGE SUMMARY

JUNE - SEPTEMBER 2013

Item	N° Samples	Mean	S.D.	CV (%)
<b>Legume Haylage – 1<sup>st</sup> cut</b>				
Moisture %	140	54.93	11.61	21.1
Protein % (N x 6.25)	140	17.25	2.83	16.4
Soluble protein, %	139	8.74	2.23	25.5
ADF-CP, %	139	1.95	0.59	30.1
NDF-CP, %	31	4.94	0.92	18.7
Acid Detergent Fibre %	140	33.46	4.03	12.0
aNeutral Detergent Fibre %	140	47.88	6.95	14.5
NDF digestibility (24 h), %	10	44.78	6.09	13.6
NDF digestibility (48 h), %	11	57.54	5.13	8.9
Lignin, %	139	6.29	1.24	19.7
Fat, %	31	2.81	0.55	19.4
Starch, %	37	1.69	0.29	17.3
Ash, %	33	8.24	1.60	19.4
Calcium, %	140	1.07	0.29	26.8
Phosphorous, %	140	0.29	0.04	15.7
Potassium, %	140	2.51	0.45	18.0
Magnesium, %	140	0.23	0.05	23.9
Sodium, %	25	0.05	0.03	60.8
pH	11	4.67	0.37	8.0
NH <sub>3</sub> -N	36	2011.45	813.78	40.5
Relative Feed Value	140	125.29	22.96	18.3
<b>Grass Haylage – 1<sup>st</sup> cut</b>				
Moisture %	82	58.8	12.07	20.5
Protein % (N x 6.25)	81	14.9	3.00	20.1
Soluble protein, %	78	8.46	2.27	26.8
ADF-CP, %	78	2.04	0.53	25.8
NDF-CP, %	68	5.52	1.30	23.5
Acid Detergent Fibre %	80	34.57	4.64	13.4
aNeutral Detergent Fibre %	80	53.39	7.16	13.4
NDF digestibility (24 h), %	45	52.9	7.04	13.3
NDF digestibility (48 h), %	45	64.43	6.23	9.7
Lignin, %	78	4.94	1.37	27.7
Fat, %	68	3.09	0.58	18.6
Starch, %	77	1.70	0.28	16.2
Ash, %	70	7.91	1.59	20.1
Calcium, %	82	0.59	0.22	36.5
Phosphorous, %	82	0.3	0.05	17.7
Potassium, %	82	2.93	0.70	23.9
Magnesium, %	82	0.20	0.07	33.0
Sodium, %	60	0.05	0.04	96.8
pH	47	4.56	0.52	11.4
NH <sub>3</sub> -N	76	2120.47	961.02	45.3
Relative Feed Value	80	110.75	21.45	19.4
<b>Mixed Haylage – 1<sup>st</sup> cut</b>				
Moisture %	548	56.19	11.16	19.9
Protein % (N x 6.25)	534	16.92	2.77	16.4
Soluble protein, %	525	9.22	3.00	32.5
ADF-CP, %	525	2.31	0.51	22.1
NDF-CP, %	424	5.58	1.10	19.7

Acid Detergent Fibre %	534	34.47	3.93	11.4
aNeutral Detergent Fibre %	534	49.3	6.61	13.4
NDF digestibility (24 h), %	288	45.32	6.87	15.2
NDF digestibility (48 h), %	286	56.89	6.53	11.5
Lignin, %	522	6.47	1.27	19.7
Fat, %	424	2.74	0.51	18.8
Starch, %	513	1.69	0.30	17.9
Ash, %	441	8.29	1.55	18.7
Calcium, %	548	1.01	0.32	31.9
Phosphorous, %	548	0.29	0.05	17.2
Potassium, %	548	2.57	0.53	20.6
Magnesium, %	548	0.23	0.06	26.9
Sodium, %	372	0.05	0.04	77.1
pH	302	4.66	0.50	10.8
NH <sub>3</sub> -N	488	2055.82	919.93	44.7
Relative Feed Value	534	119.85	21.29	17.8
<b>Mixed Legume Haylage – 2<sup>nd+</sup> cut</b>				
Moisture %	269	52.85	11.39	21.5
Protein % (N x 6.25)	268	19.25	2.60	13.5
Soluble protein, %	265	9.82	2.02	20.6
ADF-CP, %	266	2.36	0.37	15.6
NDF-CP, %	253	6.40	1.31	20.4
Acid Detergent Fibre %	267	32.71	3.68	11.3
aNeutral Detergent Fibre %	267	45.75	5.78	12.6
NDF digestibility (24 h), %	171	42.50	5.95	14.0
NDF digestibility (48 h), %	171	54.35	5.74	10.6
Lignin, %	266	7.14	1.06	14.8
Fat, %	253	2.72	0.46	17.0
Starch, %	264	1.81	0.25	13.8
Ash, %	256	8.77	1.54	17.5
Calcium, %	268	1.26	0.31	24.5
Phosphorous, %	268	0.31	0.05	15.0
Potassium, %	268	2.52	0.54	21.3
Magnesium, %	268	0.26	0.06	22.6
Sodium, %	185	0.06	0.05	83.8
pH	172	4.81	0.36	7.4
NH <sub>3</sub> -N	260	1923.33	833.14	43.3
Relative Feed Value	267	131.68	22.38	17.0
<b>Grass Haylage – 2<sup>nd+</sup> cut</b>				
Moisture %	45	51.37	13.45	26.2
Protein % (N x 6.25)	45	16.40	2.61	15.9
Soluble protein, %	45	8.34	2.03	24.4
ADF-CP, %	45	2.04	0.39	19.0
NDF-CP, %	42	6.57	1.55	23.6
Acid Detergent Fibre %	45	31.92	3.27	10.3
aNeutral Detergent Fibre %	45	50.71	4.99	9.8
NDF digestibility (24 h), %	34	54.56	6.65	12.2
NDF digestibility (48 h), %	34	66.50	4.82	7.2
Lignin, %	45	4.59	1.38	30.0
Fat, %	42	3.08	0.51	16.5
Starch, %	45	1.85	0.33	17.7
Ash, %	45	8.35	2.02	24.2
Calcium, %	45	0.71	0.26	37.4
Phosphorous, %	45	0.36	0.06	15.9
Potassium, %	45	3.22	0.67	20.8

Magnesium, %	45	0.26	0.08	29.5
Sodium, %	40	0.07	0.06	91.4
pH	34	4.84	0.49	10.2
NH <sub>3</sub> -N	44	1986.82	988.00	49.7
Relative Feed Value	45	118.88	15.17	12.8
<b><i>Baleage</i></b>				
Moisture %	363	47.87	14.77	30.9
Protein % (N x 6.25)	363	17.24	3.06	17.7
Soluble protein, %	363	8.22	2.26	27.5
ADF-CP, %	363	2.27	0.44	19.5
NDF-CP, %	317	6.74	1.51	22.5
Acid Detergent Fibre %	363	33.21	3.92	11.8
aNeutral Detergent Fibre %	363	49.24	6.97	14.2
NDF digestibility (24 h), %	198	43.72	6.74	15.4
NDF digestibility (48 h), %	198	55.31	6.27	11.3
Lignin, %	363	6.63	1.27	19.1
Fat, %	317	2.51	0.56	22.4
Starch, %	352	1.96	0.31	15.5
Ash, %	318	7.9	1.38	17.5
Calcium, %	363	1.08	0.34	31.7
Phosphorous, %	363	0.29	0.06	18.9
Potassium, %	363	2.38	0.51	21.3
Magnesium, %	363	0.23	0.06	25.0
Sodium, %	197	0.05	0.06	119.8
pH	199	5.11	0.38	7.4
NH <sub>3</sub> -N	340	1372.89	850	61.9
Relative Feed Value	363	122.31	23.67	19.4

Mixed Legume Haylage – 2<sup>nd</sup>+ cut – Anything greater than 50% legume. Includes all second or three cuts.

Grass Haylage – 2<sup>nd</sup>+ cut – If greater than 50% grass. Includes all second or three cuts.

**GRAIN SUMMARY**  
SEPTEMBER TO NOVEMBER 2013

Item	N° Samples	Mean	S.D.	CV (%)
<b>Oats</b>				
Moisture, %	11	13.51	2.77	20.5
Protein, % (N x 6.25)	11	12.42	2.26	18.2
Acid Detergent Fibre, %	7	10.39	5.60	53.9
aNeutral Detergent Fibre, %	7	23.45	11.88	50.7
Calcium, %	9	0.06	0.05	72.5
Phosphorus, %	9	0.38	0.04	10.2
Potassium, %	8	0.41	0.07	15.9
Magnesium, %	8	0.12	0.02	14.3
<b>Barley</b>				
Moisture, %	35	12.62	1.68	13.3
Protein, % (N x 6.25)	60	10.71	1.45	13.5
Acid Detergent Fibre, %	6	7.51	1.33	17.6
aNeutral Detergent Fibre, %	5	21.19	2.01	9.5
Fat, %	12	1.22	0.44	35.6
Ash, %	11	1.91	0.38	20.2
Calcium, %	12	0.03	0.02	76.3
Phosphorus, %	12	0.36	0.07	19.7
Potassium, %	9	0.53	0.06	10.5
Magnesium, %	9	0.11	0.02	13.4
<b>Corn</b>				
Moisture, %	360	13.63	2.25	16.5
Protein, % (N x 6.25)	400	7.52	0.79	10.6
Acid Detergent Fibre, %	34	3.29	0.61	18.5
aNeutral Detergent Fibre, %	8	9.84	0.90	9.2
Starch, %	9	66.29	7.60	11.5
Fat, %	53	2.85	0.50	17.7
Ash, %	51	1.20	0.13	11.0
Calcium, %	29	0.01	0.01	145.9
Phosphorus, %	29	0.27	0.04	14.0
Potassium, %	28	0.36	0.05	14.2
Magnesium, %	28	0.09	0.02	17.3
<b>Wheat</b>				
Moisture, %	257	11.52	1.84	16.0
Protein, % (N x 6.25)	258	12.30	1.83	14.9
Acid Detergent Fibre, %	50	3.83	1.04	27.2
aNeutral Detergent Fibre, %	17	12.88	5.08	39.4
Starch, %	79	59.43	3.29	5.5
Fat, %	81	1.51	0.58	38.4
Ash, %	36	1.82	0.54	29.7
Calcium, %	42	0.02	0.02	115.5
Phosphorus, %	74	0.40	0.09	22.3
Potassium, %	73	0.40	0.10	26.1
Magnesium, %	41	0.12	0.04	35.4
<b>High Moisture Corn</b>				
Moisture, %	110	27.95	4.41	15.8
Protein, % (N x 6.25)	106	8.26	0.91	11.0

Acid Detergent Fibre, %	63	2.68	0.71	26.5
aNeutral Detergent Fibre, %	60	11.30	1.49	13.2
Starch, %	70	67.99	3.46	5.1
Fat, %	56	2.87	0.72	24.9
Ash, %	56	1.61	0.14	8.4
Calcium, %	75	0.01	0.02	146.5
Phosphorus, %	75	0.30	0.03	8.7
Potassium, %	73	0.40	0.03	7.3
Magnesium, %	73	0.11	0.01	11.9
<b><i>Corn &amp; Cob Meal</i></b>				
Moisture, %	39	35.90	6.59	18.3
Protein, % (N x 6.25)	39	8.04	0.82	10.1
Acid Detergent Fibre, %	39	9.97	2.86	28.7
aNeutral Detergent Fibre, %	37	21.10	4.97	23.5
Starch, %	32	55.08	5.40	9.8
Ash, %	33	1.42	0.19	13.2
Calcium, %	39	0.03	0.03	92.9
Phosphorus, %	32	55.08	5.40	9.8
Potassium, %	39	0.45	0.05	10.9
Magnesium, %	39	0.10	0.02	15.3