



**ONTARIO FORAGE SUMMARY BY REGION**  
**NORTHERN ONTARIO - 2025-2026**  
**ALGOMA, NIPISSING, TIMISKAMIN**

**SMALL GRAIN**  
**JULY 2025 - JANUARY 2026**

Item	N° Samples	Mean	S.D.	Min	Max
<b>ONTARIO – Oat silage</b>					
Moisture, %	13	57.72	13.21	36.91	79.27
Protein (N x 6.25), %DM	13	16.02	2.70	13.44	21.87
Soluble protein, %DM	13	9.89	2.39	6.59	14.63
ADF-CP, %DM	13	0.97	0.25	0.34	1.41
NDF-CP, %DM	13	1.78	0.30	1.19	2.37
ADF, %DM	13	33.91	2.02	30.61	37.48
aNDFom, %DM	13	46.30	4.58	34.29	52.02
Lignin, %DM	13	5.32	0.77	4.03	6.76
uNDFom (12 h), %DM	12	27.73	4.30	19.40	33.13
uNDFom (30 h), %DM	12	20.14	3.26	14.63	25.71
uNDFom (120 h), %DM	12	15.79	2.10	12.33	19.81
uNDFom (240 h), %DM	13	14.77	1.83	11.55	18.31
NDFD (12 h), %NDF	12	40.54	4.84	33.68	49.43
NDFD (30 h), %NDF	12	56.75	4.47	48.59	62.98
NDFD (120 h), %NDF	12	65.97	3.18	59.08	69.82
NDFD (240 h), %NDF	13	68.06	2.98	61.91	71.51
Starch, %DM	13	2.63	3.19	0.10	8.47
ESC, %DM	12	4.51	3.01	0.30	11.15
WSC, %DM	13	6.01	3.13	1.33	12.56
Fat, %DM	13	3.85	0.66	2.75	5.19
TFA, %DM	13	1.11	0.16	0.85	1.44
Ash, %DM	13	10.94	2.09	7.43	14.39
Calcium, %DM	13	0.76	0.28	0.50	1.60
Phosphorus, %DM	13	0.32	0.05	0.22	0.41
Potassium, %DM	13	2.22	0.75	0.85	4.10
Magnesium, %DM	13	0.26	0.04	0.20	0.31
TDN <sub>1x</sub> , %DM	13	58.80	2.08	56.58	62.63
NEL <sub>3x</sub> , Mcal/KgDM	12	1.38	0.06	1.30	1.48
NEG, Mcal/KgDM	13	0.75	0.06	0.67	0.85
Relative Feed Quality	13	143.17	17.01	120.70	184.83

**NORTHERN ONTARIO HAY**  
**JUNE 2025- JANUARY 2026**

Item	N° Samples	Mean	S.D.	Min	Max
<b><i>ONTARIO – Legume hay</i></b>					
Moisture, %	4	13.46	1.98	10.47	15.35
Protein (N x 6.25), %DM	4	16.46	2.02	14.71	19.79
Soluble protein, %DM	4	6.00	0.78	5.13	7.01
ADF-CP, %DM	4	1.28	0.14	1.16	1.51
NDF-CP, %DM	4	2.11	0.26	1.88	2.52
ADF, %DM	4	33.14	1.25	31.86	35.22
aNDFom, %DM	4	41.06	1.98	38.88	44.14
Lignin, %DM	4	6.53	0.83	5.71	7.63
uNDFom (12 h), %DM	4	24.99	2.29	23.60	28.95
uNDFom (30 h), %DM	4	20.81	2.43	17.88	24.57
uNDFom (120 h), %DM	4	18.19	3.20	13.91	22.93
uNDFom (240 h), %DM	4	17.76	3.15	13.59	22.45
NDFD (12 h), %NDF	4	39.22	2.98	34.42	42.35
NDFD (30 h), %NDF	4	49.37	4.56	44.34	56.73
NDFD (120 h), %NDF	4	55.79	6.66	48.05	66.34
NDFD (240 h), %NDF	4	56.84	6.54	49.14	67.11
Starch, %DM	4	0.36	0.15	0.25	0.62
ESC, %DM	4	9.31	1.00	8.01	10.34
WSC, %DM	4	11.82	1.36	10.06	13.22
Fat, %DM	4	3.20	0.40	2.91	3.88
TFA, %DM	4	1.59	0.12	1.41	1.73
Ash, %DM	4	8.75	1.50	6.59	10.79
Calcium, %DM	4	1.45	0.12	1.26	1.58
Phosphorus, %DM	4	0.28	0.05	0.20	0.32
Potassium, %DM	4	2.20	0.46	1.53	2.84
Magnesium, %DM	4	0.29	0.03	0.26	0.35
TDN <sub>1x</sub> , %DM	4	61.00	2.20	58.02	64.23
NEL <sub>3x</sub> , Mcal/KgDM	4	1.42	0.04	1.35	1.46
NEG, Mcal/KgDM	4	0.82	0.06	0.72	0.89
Relative Feed Quality	4	152.50	12.20	132.02	164.23
<b><i>Grass hay</i></b>					
Moisture, %	8	21.73	7.30	12.42	34.36
Protein (N x 6.25), %DM	8	12.20	2.08	8.72	15.19
Soluble protein, %DM	8	4.09	1.23	2.75	6.28
ADF-CP, %DM	8	1.09	0.30	0.81	1.61
NDF-CP, %DM	8	3.39	0.76	2.29	4.88
ADF, %DM	8	37.24	5.73	30.69	46.73
aNDFom, %DM	8	56.10	5.61	47.42	64.72
Lignin, %DM	8	5.09	1.42	3.66	7.87
uNDFom (12 h), %DM	7	34.37	7.49	22.99	49.06
uNDFom (30 h), %DM	7	24.08	6.19	15.30	36.96
uNDFom (120 h), %DM	7	17.71	5.34	11.08	29.36
uNDFom (240 h), %DM	8	17.16	5.47	10.13	27.65
NDFD (12 h), %NDF	7	38.05	8.09	22.80	51.51
NDFD (30 h), %NDF	7	56.68	7.43	41.84	67.73
NDFD (120 h), %NDF	7	68.25	6.69	53.80	76.63

NDFD (240 h), %NDF	8	69.99	6.71	56.49	78.64
Starch, %DM	8	3.02	0.42	2.13	3.51
ESC, %DM	8	1.21	0.24	0.87	1.56
WSC, %DM	8	0.58	0.52	0.25	1.74
Fat, %DM	7	9.41	3.24	2.50	12.59
TFA, %DM	8	10.92	3.99	3.71	14.93
Ash, %DM	8	8.15	2.15	5.20	12.37
Calcium, %DM	8	0.59	0.17	0.39	0.90
Phosphorus, %DM	8	0.22	0.04	0.16	0.28
Potassium, %DM	8	1.95	0.61	1.13	3.17
Magnesium, %DM	8	0.17	0.04	0.12	0.24
TDN <sub>1x</sub> , %DM	8	59.09	4.25	50.70	64.93
NEL <sub>3x</sub> , Mcal/KgDM	7	1.36	0.07	1.24	1.47
NEG, Mcal/KgDM	8	0.72	0.13	0.44	0.91
Relative Feed Quality	8	116.04	18.02	86.36	146.32
<b>Mixed hay</b>					
Moisture, %	7	15.11	3.44	10.80	20.06
Protein (N x 6.25), %DM	7	14.59	2.49	11.23	17.64
Soluble protein, %DM	7	5.67	1.33	4.26	7.80
ADF-CP, %DM	7	1.00	0.09	0.84	1.15
NDF-CP, %DM	7	2.02	0.22	1.75	2.43
ADF, %DM	7	32.66	3.56	29.30	38.75
aNDFom, %DM	7	45.21	5.76	38.40	54.72
Lignin, %DM	7	5.33	0.73	4.43	6.81
uNDFom (12 h), %DM	7	25.66	6.19	17.93	34.57
uNDFom (30 h), %DM	7	19.25	4.71	13.07	25.90
uNDFom (120 h), %DM	7	15.21	3.65	10.47	21.00
uNDFom (240 h), %DM	7	14.42	3.44	10.16	19.95
NDFD (12 h), %NDF	7	43.90	7.47	34.59	53.31
NDFD (30 h), %NDF	7	57.90	6.09	50.44	67.12
NDFD (120 h), %NDF	7	66.63	5.13	59.82	75.39
NDFD (240 h), %NDF	7	68.36	4.90	61.83	76.89
Starch, %DM	7	3.28	0.37	2.66	3.78
ESC, %DM	7	1.58	0.22	1.22	1.82
WSC, %DM	7	0.86	0.59	0.25	1.81
Fat, %DM	7	11.40	1.14	9.58	12.96
TFA, %DM	7	14.11	1.24	12.06	15.81
Ash, %DM	7	8.17	1.41	6.56	10.85
Calcium, %DM	7	1.06	0.35	0.76	1.81
Phosphorus, %DM	7	0.25	0.04	0.18	0.31
Potassium, %DM	7	1.97	0.33	1.39	2.45
Magnesium, %DM	7	0.27	0.08	0.20	0.44
TDN <sub>1x</sub> , %DM	7	62.10	1.98	58.92	64.49
NEL <sub>3x</sub> , Mcal/KgDM	7	1.43	0.05	1.35	1.49
NEG, Mcal/KgDM	7	0.83	0.07	0.72	0.93
Relative Feed Quality	7	145.94	20.31	114.36	172.41

## NORTHERN ONTARIO HAYLAGE

JUNE 2025- JANUARY 2026

Item	N° Samples	Mean	S.D.	Min	Max
<b><i>ONTARIO – Legume haylage</i></b>					
Moisture, %	71	54.84	10.36	27.44	72.34
Protein (N x 6.25), %DM	71	19.21	1.57	13.71	23.62
Soluble protein, %DM	71	10.49	2.11	6.14	15.97
ADF-CP, %DM	71	1.30	0.15	0.95	1.77
NDF-CP, %DM	71	3.17	0.72	1.78	4.95
ADF, %DM	71	32.62	3.58	24.07	44.06
aNDFom, %DM	71	39.30	4.49	28.63	54.80
Lignin, %DM	71	6.57	1.18	4.23	12.10
uNDFom (12 h), %DM	70	23.74	4.34	14.69	39.70
uNDFom (30 h), %DM	70	19.88	3.49	12.70	33.61
uNDFom (120 h), %DM	70	18.47	3.18	11.87	31.23
uNDFom (240 h), %DM	71	18.00	3.12	11.44	30.29
NDFD (12 h), %NDF	70	39.93	4.93	27.55	52.37
NDFD (30 h), %NDF	70	49.61	4.35	38.67	57.15
NDFD (120 h), %NDF	70	53.13	4.40	43.01	63.05
NDFD (240 h), %NDF	71	54.37	4.42	44.73	64.28
Starch, %DM	71	1.14	1.00	0.20	4.65
ESC, %DM	70	3.81	1.41	1.36	8.44
WSC, %DM	71	5.51	2.14	1.76	12.04
Fat, %DM	71	3.42	0.51	2.38	4.36
TFA, %DM	71	1.46	0.26	0.92	2.02
Ash, %DM	71	9.88	1.17	7.22	15.26
Calcium, %DM	71	1.60	0.38	0.85	2.59
Phosphorus, %DM	71	0.28	0.05	0.14	0.39
Potassium, %DM	71	2.19	0.48	1.05	3.18
Magnesium, %DM	71	0.30	0.07	0.18	0.44
TDN <sub>1x</sub> , %DM	70	60.72	2.64	54.31	67.43
NEL <sub>3x</sub> , Mcal/KgDM	70	1.44	0.06	1.23	1.57
NEG, Mcal/KgDM	70	0.83	0.08	0.60	1.03
Relative Feed Quality	71	167.97	23.99	109.53	235.96
<b><i>Grass haylage</i></b>					
Moisture, %	27	51.19	12.66	25.81	79.01
Protein (N x 6.25), %DM	27	12.80	2.06	9.39	17.53
Soluble protein, %DM	27	6.05	1.40	3.93	11.33
ADF-CP, %DM	27	1.07	0.20	0.70	1.64
NDF-CP, %DM	27	3.33	0.53	2.46	4.65
ADF, %DM	27	35.10	3.62	24.34	41.05
aNDFom, %DM	27	51.96	4.89	38.96	62.37
Lignin, %DM	27	4.76	1.09	2.18	7.01
uNDFom (12 h), %DM	25	28.87	4.59	21.41	40.33
uNDFom (30 h), %DM	25	19.42	3.57	14.09	27.79
uNDFom (120 h), %DM	25	14.17	3.13	9.91	21.10
uNDFom (240 h), %DM	27	13.71	3.06	9.28	19.75
NDFD (12 h), %NDF	25	44.63	5.01	32.08	53.97
NDFD (30 h), %NDF	25	62.74	4.95	53.20	69.71
NDFD (120 h), %NDF	25	72.85	4.70	62.43	80.01

NDFD (240 h), %NDF	25	74.26	4.51	64.34	81.28
Starch, %DM	27	1.52	0.91	0.20	4.76
ESC, %DM	25	5.22	1.55	2.58	8.58
WSC, %DM	27	7.53	2.37	3.65	13.23
Fat, %DM	27	3.62	0.45	2.84	4.73
TFA, %DM	27	1.51	0.19	1.05	1.96
Ash, %DM	27	8.02	0.91	6.53	10.40
Calcium, %DM	27	0.67	0.20	0.39	1.22
Phosphorus, %DM	27	0.25	0.04	0.17	0.36
Potassium, %DM	27	2.23	0.41	1.32	3.30
Magnesium, %DM	27	0.20	0.05	0.13	0.30
TDN <sub>1x</sub> , %DM	25	61.42	3.05	55.77	69.48
NEL <sub>3x</sub> , Mcal/KgDM	25	1.40	0.06	1.26	1.57
NEG, Mcal/KgDM	25	0.80	0.09	0.63	1.05
Relative Feed Quality	27	137.39	18.35	110.73	198.55
<b>Mixed haylage</b>					
Moisture, %	94	56.63	11.51	28.80	74.42
Protein (N x 6.25), %DM	94	16.38	2.33	9.89	21.16
Soluble protein, %DM	94	8.80	2.24	3.46	14.49
ADF-CP, %DM	94	1.21	0.24	0.66	1.89
NDF-CP, %DM	94	3.10	0.75	1.78	5.54
ADF, %DM	94	33.34	3.45	27.37	43.80
aNDFom, %DM	94	43.34	5.79	32.30	61.23
Lignin, %DM	94	5.40	1.11	3.18	8.52
uNDFom (12 h), %DM	91	25.05	5.45	14.94	41.06
uNDFom (30 h), %DM	91	18.68	4.13	11.60	30.11
uNDFom (120 h), %DM	91	15.75	3.31	9.38	25.14
uNDFom (240 h), %DM	94	15.02	3.19	8.87	24.14
NDFD (12 h), %NDF	91	42.60	6.47	21.26	54.94
NDFD (30 h), %NDF	91	57.06	6.19	42.51	73.46
NDFD (120 h), %NDF	91	63.59	6.02	51.86	79.49
NDFD (240 h), %NDF	91	65.10	5.98	53.18	80.61
Starch, %DM	94	1.28	0.82	0.20	3.66
ESC, %DM	91	4.21	1.63	1.31	8.81
WSC, %DM	94	6.10	2.54	1.57	13.00
Fat, %DM	94	3.71	0.55	2.41	5.10
TFA, %DM	94	1.57	0.26	0.83	2.14
Ash, %DM	94	8.93	1.24	5.82	12.42
Calcium, %DM	94	1.10	0.33	0.36	2.16
Phosphorus, %DM	94	0.27	0.05	0.11	0.38
Potassium, %DM	94	2.24	0.39	1.29	3.03
Magnesium, %DM	94	0.26	0.07	0.16	0.49
TDN <sub>1x</sub> , %DM	91	61.96	2.99	52.34	68.27
NEL <sub>3x</sub> , Mcal/KgDM	91	1.44	0.06	1.16	1.57
NEG, Mcal/KgDM	91	0.84	0.09	0.52	1.03
Relative Feed Quality	94	159.46	23.61	103.45	216.58

**NORTHERN ONTARIO CORN SILAGE**  
**SEPTEMBER 2025- JANUARY 2026**

Item	N° Samples	Mean	S.D.	Min	Max
<b><i>ONTARIO – Fermented corn silage</i></b>					
Moisture, %	24	63.76	5.42	52.56	74.94
Protein (N x 6.25), %DM	24	8.17	0.69	6.61	9.72
Soluble protein, %DM	24	4.75	0.75	3.61	6.30
ADF-CP, %DM	24	0.53	0.10	0.38	0.88
NDF-CP, %DM	24	1.19	0.14	0.94	1.43
ADF, %DM	24	23.50	1.68	19.56	26.26
aNDFom, %DM	24	40.08	2.54	33.94	43.57
Lignin, %DM	24	2.28	0.28	1.83	2.78
uNDFom (12 h), %DM	22	27.39	2.12	23.24	30.91
uNDFom (30 h), %DM	22	16.40	1.39	14.11	19.19
uNDFom (120 h), %DM	22	11.32	1.06	9.28	13.76
uNDFom (240 h), %DM	24	10.25	1.04	8.31	12.68
NDFD (12 h), %NDF	22	31.96	2.53	25.70	36.33
NDFD (30 h), %NDF	22	59.24	2.61	52.30	63.33
NDFD (120 h), %NDF	22	71.83	2.43	65.80	75.13
NDFD (240 h), %NDF	24	74.38	2.51	68.48	77.91
Starch, %DM	24	28.58	3.54	23.54	36.53
SCHD-7h, %SCH	22	76.43	3.16	70.21	81.47
ESC, %DM	22	4.27	1.90	1.62	7.99
WSC, %DM	24	4.47	1.90	1.84	8.37
Fat, %DM	24	3.16	0.35	2.64	3.85
TFA, %DM	24	1.96	0.19	1.58	2.41
Ash, %DM	24	4.54	0.51	3.61	5.40
Calcium, %DM	24	0.23	0.06	0.16	0.45
Phosphorus, %DM	24	0.19	0.03	0.12	0.26
Potassium, %DM	24	0.82	0.14	0.47	1.01
Magnesium, %DM	24	0.15	0.03	0.11	0.23
TDN <sub>1x</sub> , %DM	24	72.69	1.63	70.13	76.53
NE <sub>L-3x</sub> , Mcal/KgDM	22	1.56	0.03	1.52	1.63
NEG, Mcal/KgDM	24	1.07	0.04	1.01	1.16
Relative Feed Quality	24	201.04	16.25	179.56	244.28
<b><i>ONTARIO – Fresh corn silage</i></b>					
Moisture, %	19	59.87	7.70	47.74	76.42
Protein (N x 6.25), %DM	19	8.04	0.56	7.26	9.27
Soluble protein, %DM	19	2.93	0.45	2.32	3.93
ADF-CP, %DM	19	0.54	0.05	0.47	0.66
NDF-CP, %DM	19	1.29	0.15	1.02	1.52
ADF, %DM	19	23.99	2.67	19.48	29.22
aNDFom, %DM	19	41.37	3.84	34.60	49.71
Lignin, %DM	19	2.43	0.23	2.03	3.01
uNDFom (12 h), %DM	18	28.74	2.89	24.07	35.34
uNDFom (30 h), %DM	18	17.02	1.12	14.80	19.74
uNDFom (120 h), %DM	18	12.14	1.00	10.50	14.29
uNDFom (240 h), %DM	19	11.14	0.96	9.55	12.95

NDFD (12 h), %NDF	18	30.49	1.71	27.42	33.74
NDFD (30 h), %NDF	18	58.65	2.62	54.31	63.28
NDFD (120 h), %NDF	18	70.51	2.01	66.15	74.37
NDFD (240 h), %NDF	19	72.99	2.12	68.63	77.07
Starch, %DM	19	30.66	6.01	21.29	40.71
SCHD-7h, %SCH	18	68.29	1.64	66.04	71.48
ESC, %DM	18	4.26	1.52	2.26	7.99
WSC, %DM	19	4.44	1.61	2.40	8.37
Fat, %DM	19	2.65	0.24	2.17	3.23
TFA, %DM	19	1.94	0.35	1.31	2.43
Ash, %DM	19	4.53	0.96	3.39	6.58
Calcium, %DM	19	0.20	0.06	0.12	0.39
Phosphorus, %DM	19	0.19	0.02	0.16	0.23
Potassium, %DM	19	0.90	0.12	0.73	1.16
Magnesium, %DM	19	0.15	0.03	0.11	0.21
TDN <sub>1x</sub> , %DM	19	72.19	2.53	67.02	75.65
NEL <sub>3x</sub> , Mcal/KgDM	18	1.55	0.05	1.45	1.61
NEG, Mcal/KgDM	19	1.06	0.06	0.92	1.14
Relative Feed Quality	19	194.80	22.18	152.41	237.35