

Table 1. Nutrient composition of selected straws commonly fed to dairy cattle.

Straw Type	Nutrient ¹													
	DM % as fed	CP % of DM	NDF % of DM	NDFD % of NDF	NFC % of DM	Fat % of DM	TDN % of DM	NE _L 3x Mcal/lb	RFQ na	P % of DM	Ca % of DM	K % of DM	Mg % of DM	Ash % of DM
Barley	92.3	5.5	74.5	43.4	12.8	2.2	44.4	0.44	57	0.25	0.49	1.64	0.16	7.3
Barley	93.4	5.2	74.7	42.8	14.1	1.9	44.2	0.44	56	0.29	0.52	1.60	0.16	6.5
Barley	93.6	2.4	82.7	33.1	7.6	1.8	30.8	0.29	28	0.19	0.33	1.09	0.17	7.8
Average(Barley)	93.1	4.4	77.3	39.8	11.5	2.0	39.8	0.39	47	0.24	0.45	1.44	0.16	7.2
Oat	93.0	3.5	71.0	57.5	16.8	1.9	53.7	0.54	90	0.31	0.27	2.32	0.16	9.2
Oat	93.8	4.1	81.5	48.9	7.9	1.9	44.9	0.44	58	0.17	0.18	1.01	0.07	7.0
Oat	93.2	2.5	81.1	48.5	8.6	2.2	44.4	0.44	57	0.14	0.35	2.12	0.11	7.9
Oat	93.3	6.5	75.5	44.8	9.8	2.2	43.8	0.43	57	0.19	0.51	1.68	0.19	8.4
Oat	92.9	7.1	78.2	45.0	6.9	2.0	42.4	0.42	53	0.22	0.39	1.86	0.17	8.2
Oat	93.6	4.0	76.1	42.5	10.1	2.4	40.7	0.40	50	0.15	0.45	2.74	0.16	9.8
Oat	93.1	4.7	76.5	42.8	8.3	2.5	40.3	0.39	50	0.27	0.29	2.86	0.14	10.4
Oat	93.1	6.2	78.7	38.9	6.6	1.9	36.7	0.35	41	0.20	0.24	1.78	0.16	9.0
Oat	93.9	4.5	74.6	35.8	12.0	1.8	36.3	0.35	40	0.36	0.18	2.68	0.14	9.6
Average (Oat)	93.3	4.8	77.0	45.0	9.7	2.1	42.6	0.42	55	0.22	0.32	2.12	0.14	8.8
Wheat	93.6	4.3	80.1	49.2	8.9	1.7	45.1	0.45	60	0.09	0.33	1.13	0.11	7.5
Wheat	93.9	3.7	74.7	44.5	14.5	1.7	44.1	0.44	57	0.14	0.27	1.56	0.11	7.7
Wheat	92.7	3.6	77.7	47.6	10.8	1.4	43.3	0.43	57	0.14	0.29	1.12	0.12	8.9
Wheat	93.2	4.0	77.5	46.8	9.6	2.0	43.1	0.42	56	0.08	0.20	0.99	0.12	9.4
Wheat	92.9	6.8	72.3	41.5	13.5	2.1	43.7	0.43	56	0.17	0.33	1.53	0.14	7.7
Wheat	93.5	6.6	78.1	44.2	8.4	1.7	42.0	0.41	52	0.13	0.26	1.76	0.14	7.6
Wheat	93.9	6.1	71.4	36.8	16.5	1.8	41.6	0.41	49	0.17	0.27	1.58	0.12	6.7
Wheat	92.8	3.0	83.0	45.8	5.9	2.1	40.7	0.40	49	0.10	0.25	0.94	0.09	8.4
Wheat	93.7	4.5	82.2	44.5	7.2	1.4	40.2	0.39	48	0.09	0.22	1.15	0.05	7.2
Wheat	94.7	4.5	78.0	41.6	10.9	1.1	39.3	0.38	46	0.11	0.19	1.38	0.13	7.9
Wheat	94.1	3.6	79.9	42.5	8.5	1.8	39.0	0.38	46	0.13	0.13	1.12	0.09	8.6
Wheat	93.4	4.6	78.1	38.3	10.5	2.3	39.2	0.38	43	0.15	0.26	1.44	0.13	6.9
Wheat	93.2	3.9	84.1	40.2	6.5	1.5	36.6	0.35	39	0.09	0.23	0.85	0.11	6.4
Wheat	94.3	4.4	82.3	38.6	9.4	1.0	36.9	0.36	39	0.12	0.20	0.75	0.08	5.3
Wheat	94.0	3.5	81.1	34.1	9.2	1.5	33.0	0.31	32	0.12	0.14	1.11	0.09	7.1
Wheat	93.9	4.9	78.0	31.6	10.5	1.3	32.1	0.30	31	0.14	0.25	1.30	0.10	7.8
Wheat	94.0	6.6	74.1	29.7	10.3	1.4	31.1	0.29	30	0.18	0.27	2.00	0.11	10.0
Wheat	93.8	4.4	80.0	33.1	8.1	1.4	31.2	0.29	30	0.30	0.20	1.52	0.11	8.6
Wheat	93.0	2.9	83.7	29.1	5.5	1.8	26.4	0.24	21	0.08	0.16	0.85	0.09	8.4
Wheat	94.0	5.2	80.0	20.5	9.7	1.6	24.3	0.22	16	0.17	0.20	0.65	0.16	6.0
Average (Wheat)	93.6	4.6	78.8	39.0	9.7	1.6	37.6	0.36	43	0.14	0.23	1.24	0.11	7.7
All Straws														
Average	93.48	4.60	78.16	40.76	9.86	1.78	39.23	0.38	46.72	0.17	0.28	1.50	0.12	7.97
Minimum	92.30	2.43	70.96	20.53	5.54	1.03	24.33	0.22	16.36	0.08	0.13	0.65	0.05	5.34
Maximum	94.68	7.07	84.09	57.51	16.81	2.54	53.74	0.54	89.61	0.36	0.52	2.86	0.19	10.36
SD²	0.53	1.27	3.58	7.29	2.87	0.38	6.19	0.07	14.13	0.07	0.10	0.58	0.03	1.20

¹ DM = dry matter, CP = crude protein, NDF = neutral detergent fiber, NDFD = neutral detergent fiber digestibility (48 h in vitro), TDN = total digestible nutrients, NE_L = net energy lactation, RFQ = relative forage quality, P = phosphorus, Ca = calcium, K = potassium, Mg = magnesium.

² SD = standard deviation