

**ASSAYS OF INDIVIDUAL SAMPLES OF CALIFORNIA FEEDSTUFFS**

*New samples in Blue*

(Assay codes at the bottom)

Jan 2009

	DM	OM	Fat	CP	SoIP	UndP	NDF	dNDF	NEI	ADF	Lignin	Starch	Sugars	Ca	P	Mg	K	S	Na	Cl	Fe	Mn	Zn	Cu	Mo	Se		
	%	----- % DM -----		----- % CP -----	----- % CP -----		% DM	% DM	Mcal/kg	-----	-----	-----	-----	% DM	-----	-----	-----	-----	-----	-----	-----	ppm DM	-----	-----	-----	-----		
<b>Alfalfa (green chop -&gt; summer)</b>	27.1	87.2		19.8	39.8	8.1	52.4			36.6				1.13	0.39	0.23	3.58	0.35		0.58	396	49	30	5				
<b>Alfalfa (green chop - fall)</b>	56.7	88.2	2.4	22.1		4.5	31.1	45.2	1.46	26.2																		
	51.0	88.3	2.6	21.1		5.8	33.5	44.1	1.43	27.4																		
	21.1	86.1		18.8	40.0	8.0	48.8			34.6				0.85	0.47	0.26	3.53	0.34		0.51	612	74	44	6				
<b>Mean</b>	<b>42.93</b>	<b>87.5</b>	<b>1.3</b>	<b>20.67</b>	<b>40.0</b>	<b>6.1</b>	<b>37.8</b>	<b>22.05</b>	<b>0.715</b>	<b>29.4</b>				<b>0.85</b>	<b>0.47</b>	<b>0.26</b>	<b>3.53</b>	<b>0.34</b>		<b>0.51</b>	<b>612</b>	<b>74</b>	<b>44</b>	<b>6</b>				
<b>Alfalfa (cubes, dehy)</b>	91.3	90.8	1.8	16.7	32.0	6.6	46.7	49.8	1.34	40.4				1.27	0.35	0.28	2.43	0.36	0.18	0.39	170	28	20	9	7.8			
	92.8	89.2	2.4	26.2	44.0	8.0	33.8	45.6	1.45	28.6				1.39	0.47	0.27	2.58	0.30	0.18	0.64	387	39	45	8	6.8			
	89.5	90.3	2.1	21.9	36.0	4.6	39.4	47.5	1.41	31.1				1.41	0.33	0.41	2.13	0.32	0.20	0.87	178	34	24	13	3.1			
	91.0	90.4	2.5	19.8	27.0	8.1	34.4			25.5				1.22	0.39	0.33	1.86	0.22	0.16	0.63	522	66	29	13	2.7			
	87.3	90.4	2.1	21.8	32.0	5.5	34.7			25.3				1.42	0.28	0.38	2.02	0.26	0.16	0.70	273	50	25	10	1.0			
	89.5	88.2	2.8	23.2	40.0	3.9	32.7			27.5				1.40	0.44	0.36	3.02	0.26	0.14	0.89	365	30	17	5	2.6			
	89.2	88.0	2.7	24.4	37.0	4.5	32.9			26.0				1.21	0.36	0.25	3.16	0.21	0.36	1.28	352	80	19	8	3.9			
	90.8	90.1	2.6	23.8	40.0	5.5	34.5			27.2				1.38	0.37	0.33	2.35	0.25	0.18	1.00	242	33	20	8	7.1			
	90.0	89.5	2.6	25.5	30.0	5.5	38.0			28.1				1.54	0.33	0.31	1.97	0.23	0.18	0.78	302	35	19	6	1.0			
<b>Mean</b>	<b>90.16</b>	<b>89.7</b>	<b>2.4</b>	<b>22.59</b>	<b>35.33</b>	<b>5.8</b>	<b>36.34</b>	<b>47.6</b>	<b>1.40</b>	<b>28.9</b>				<b>1.36</b>	<b>0.37</b>	<b>0.32</b>	<b>2.39</b>	<b>0.27</b>	<b>0.19</b>	<b>0.80</b>	<b>310</b>	<b>44</b>	<b>24</b>	<b>9</b>	<b>4.0</b>			
<b>CV (%)</b>	1.7	1.1	13.8	13.1	15.6	25.7	12.3	4.4	4.0	16.2				7.9	15.8	16.3	19.2	18.6	33.5	31.8	35.8	41.0	35.7	31.0	65.2			
<b>Alfalfa (cubes, sun-dried)</b>	91.6	89.2	1.7	17.5	21.0	5.7	49.8	46.7	1.22	34.6				1.40	0.25	0.31	2.02	0.28	0.30	1.09	357	30	51	8	3.5			
<b>Alfalfa (hay -&gt; sorted from low to high NDF)</b>	94.3	90.8	1.9	29.3		3.3	26.6	44.1	1.61	22.2																		
	91.5	89.1	1.4	25.6	36.5	4.9	29.8	44.9	1.51	23.6	3.30	1.20	3.20															
	91.3	88.5	2.1	23.1	31.3	4.1	29.9	34.1	1.42	23.6	4.80	1.80	5.30															
	92.4	89.3	1.9	19.9	37.4	4.4	31.1	41.3	1.48	25.4	4.60	2.60	5.80															
	89.4			22.4	31.2		31.3	60.1		24.6				1.16	0.27													
	87.0	89.4	3.1	28.1	34.0		31.7			21.9				1.61	0.44	0.49	1.48	0.32	0.24	0.69	277	40	25	11	1.1			
	89.8	89.6	3.0	25.5	33.7	4.7	31.8			22.0				1.79	0.32	0.32	2.69	0.36	0.15	0.76	259	40	53	7				
...	<i>continued</i>																											





	DM	OM	Fat	CP	SoIP	UndP	NDF	dNDF	NEI	ADF	Lignin	Starch	Sugars	Ca	P	Mg	K	S	Na	Cl	Fe	Mn	Zn	Cu	Mo	Se	
	%	----- % DM -----	% DM -----	% DM -----	---- % CP ----	% DM	% DM	% NDF	Mcal/kg	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	% DM	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----
<b>Almond Hulls</b>																											
	87.8	94.5	1.9	5.1	34.8	62.7	27.0			21.5				0.24	0.13	0.08	2.46	0.03	0.01	0.23	95	9	46	1			
	86.0	95.5	2.5	4.4	25.3	45.5	30.0			23.6				0.24	0.08	0.12	2.28	0.02	0.02	0.26	175	13	48	5			
	78.4	94.1		4.9	24.0	67.4	59.8	21.6	0.79	48.7				0.23	0.09	0.08	2.08	0.03	0.01	0.04	577	18	28	5	1.0		
	90.2	93.2	2.9	8.0	26.0	36.2	33.6	28.8	1.41	29.6				0.40	0.16	0.14	2.03	0.08	0.04	0.09	252	33	30	2	1.1		
	86.7	94.6	2.4	6.4	47.0	39.1	28.0	53.9	1.70	25.8				0.19	0.15	0.10	2.19	0.04	0.01	0.05	99	14	16	7	1.5		
	79.5	93.8	2.8	6.3	54.0	33.3	28.4	61.6	1.76	26.6				0.22	0.11	0.12	2.52	0.03	0.02	0.01	155	14	30	7	2.2		
	87.2	94.2	2.6	5.6		15.4	30.1	35.7	1.58	22.5																	
	89.1	94.3	2.6	5.6		16.0	25.6	45.2	1.72	19.5																	
	85.0	93.2	1.3	4.6		35.9	52.1	21.0	0.97	40.1																	
	92.5	93.5	2.6	5.9		16.4	33.1	23.9	1.43	26.2																	
	83.9	93.6	1.3	5.5		23.9	33.6	29.2	1.41	26.8																	
	89.8	91.4	2.0	5.3	40.0	30.7	31.0	34.7	1.46	26.5	9.9	1.5	19.2														
	90.1	91.2	2.0	5.9	38.1	25.4	39.2	25.8	1.20	30.8	11.9	1.4	16.8														
	93.2	93.3	2.9	5.6	44.9	21.3	40.2	40.8	1.44	31.1	11.1	2.9	16.7														
	96.1	91.9	2.9	5.4	38.4	29.9	36.4	25.4	1.29	31.5	12.3	2.0	17.1														
<b>Mean</b>	<b>87.7</b>	<b>93.5</b>	<b>6.4</b>	<b>5.6</b>	<b>37.3</b>	<b>33.3</b>	<b>35.2</b>	<b>34.4</b>	<b>1.40</b>	<b>28.7</b>	<b>11.3</b>	<b>2.0</b>	<b>17.4</b>	<b>0.25</b>	<b>0.12</b>	<b>0.11</b>	<b>2.26</b>	<b>0.04</b>	<b>0.02</b>	<b>0.11</b>	<b>226</b>	<b>17</b>	<b>33</b>	<b>5</b>	<b>1.5</b>		
<b>CV (%)</b>	1.4	0.3	6.4	3.9	8.5	12.2	7.0	10.3	5.7	6.7	4.6	17.6	3.4	29.3	26.9	22.7	8.8	55.7	63.8	93.2	80.5	50.0	36.5	55.8	37.6		
<b>Almond Meal</b>																											
	90.9	88.7		27.3	54.0	4.0	27.3	21.5		30.8				0.38	0.66	0.33	1.06	0.15	0.02		616	86	36	10	1.1		
<b>Almond skins (fresh)</b>																											
	58.1	92.2	35.0	21.7	39.0	16.1	45.9			38.4				0.40	0.58	0.30	0.85	0.16	0.58	0.50	197	57	67	11	1.0		
	37.6	95.0		20.8	35.3		48.7			47.5				0.63	0.45	0.28	0.46	0.31	0.38	0.41	304	53	48	10			
<b>Almond skins (ensiled)</b>																											
	29.8	94.2		18.4	23.6		49.5			49.0				0.57	0.43	0.31	0.81	0.33	0.81	0.84	208	80	62	10			
<b>Apple (pulp, wet)</b>																											
	16.5	96.8	3.4	6.6	26.6		47.0			34.0				0.17	0.18	0.09	0.91	0.06	0.01	0.01							
<b>Bakery Waste</b>																											
	91.9	92.1	19.1	16.0	37.4	6.9	18.8			9.8				0.09	1.34	0.70	1.61	0.25	0.03	0.21	126	171	60	5			

	DM	OM	Fat	CP	SolP	UndP	NDF	dNDF	NEI	ADF	Lignin	Starch	Sugars	Ca	P	Mg	K	S	Na	Cl	Fe	Mn	Zn	Cu	Mo	Se	
	%	----- % DM -----	% DM	----- % CP -----	----- % CP -----	% DM	% DM	% NDF	Mcal/kg	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	% DM	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	
<b>Barley (grain)</b>																											
	89.3	97.1	2.3	12.2	10.0	8.2	16.8	56.4	1.93	6.7				0.06	0.37	0.12	0.56	0.15	0.02	0.17	88	16	29	7	1.9		
	90.6	97.2	2.2	14.4	20.0	14.6	20.4	43.4	1.80	9.2				0.07	0.35	0.11	0.54	0.13	0.01	0.13	59	21	31	5	1.3		
	90.6	97.2	2.0	10.3		2.2	24.2	56.3	1.86	9.2																	
	91.0	97.2	1.7	12.2	22.3	2.6	22.6	55.7	1.94	8.5	2.0	50.7	1.3														
<b>Mean</b>	<b>90.4</b>	<b>97.2</b>	<b>2.1</b>	<b>12.3</b>	<b>17.4</b>	<b>6.9</b>	<b>21.0</b>	<b>53.0</b>	<b>1.9</b>	<b>8.4</b>	<b>2.0</b>	<b>5.1</b>	<b>1.3</b>	<b>0.07</b>	<b>0.36</b>	<b>0.12</b>	<b>0.55</b>	<b>0.14</b>	<b>0.02</b>	<b>0.15</b>	<b>74</b>	<b>19</b>	<b>30</b>	<b>6</b>	<b>1.6</b>		
<b>CV (%)</b>	0.4	0.0	6.0	6.8	21.7	42.3	7.6	6.0	1.7	7.0																	
<b>Beans (lima, dry)</b>																											
	90.7	94.3	1.2	23.2	49.1		30.5			7.5				0.11	0.36	0.19	2.34	0.20	0.00	0.01							
<b>Beet pulp (pellets, dehy)</b>																											
	91.6	92.2		10.3	24.2		44.1			27.8				1.03	0.09	0.24	0.32	0.39		0.06	811	67	27	11			
	89.7	90.4	0.6	8.5	40.4	10.6	45.8			27.3				0.61	0.07	0.25	2.14	0.30	0.81	0.91	532	74	25	6			
	92.8	91.7	1.4	8.3	14.0	18.1	42.1	86.9	1.76	26.1				0.88	0.12	0.27	0.60	0.23	0.25	0.13	821	55	22	16	1.8		
	92.7	94.1	1.4	8.0	11.0	6.3	45.1	84.8	1.78	24.2				0.82	0.13	0.36	0.64	0.18	0.08	0.03	607	62	26	10	1.0		
<b>Mean</b>	<b>91.7</b>	<b>92.1</b>	<b>1.1</b>	<b>8.8</b>	<b>22.4</b>	<b>11.7</b>	<b>44.3</b>	<b>85.9</b>	<b>1.77</b>	<b>26.4</b>				<b>0.84</b>	<b>0.10</b>	<b>0.28</b>	<b>0.93</b>	<b>0.28</b>	<b>0.38</b>	<b>0.28</b>	<b>693</b>	<b>65</b>	<b>25</b>	<b>11</b>	<b>1.4</b>		
<b>Beet pulp (shreds, dehy)</b>																											
	91.1	92.5		15.6	23.1		45.8			26.5				0.62	0.33	0.22	0.41	0.37		0.15	832	70	37	13			
	91.2	93.1	0.8	11.7	50.5	19.7	30.8			14.3				0.56	0.07	0.22	2.26	0.33	0.30	0.58	261	47	27	4			
	92.4	93.2	1.1	10.5	28.0	16.2	40.7	93.2	1.84	23.9				0.89	0.11	0.17	1.14	0.27	0.46	0.88	290	33	13	6	1.0		
	92.2	92.6	1.9	12.1	36.0	5.8	42.9	78.3	1.72	22.2				0.65	0.18	0.22	1.54	0.20	0.64	0.66	179	71	28	4	1.0		
	91.1	91.7	1.0	12.5	46.0	8.0	46.4	74.5	1.61	27.2				0.84	0.10	0.23	1.96	0.19	0.75	0.76	177	78	21	4	2.1		
	89.4	91.4		10.0	38.3	6.0	36.3	85.0		18.7				0.66	0.06	0.25	2.06		0.16		344	65	25	9			
	91.7	93.5	0.9	10.1	43.0	9.9	31.8	84.0	1.84	19.9				0.46	0.09	0.25	1.91	0.22	0.32	0.50	178	50	26	3	2.3		
	87.8	89.4		8.8	39.4	8.0	42.4	81.0		23.8				0.57	0.05	0.24	2.90		0.16		453	90	33	8			
	91.5	93.9	0.7	9.7	37.0	8.2	39.7	90.0	1.86	20.2				0.49	0.09	0.24	1.84	0.22	0.32	0.43	205	62	22	5	1.0		
	88.5	90.9		9.9	41.3	9.1	39.9	83.0		21.5				0.58	0.05	0.23	2.12		1.02		383	73	24	7			
	94.0	94.0	0.7	9.2	41.6	4.1	32.4	85.5	2.04	20.3	0.8	6.6	19.1														
	94.2	93.9	0.8	9.8	44.3	3.8	33.9	87.2	2.06	20.3	0.9	6.3	18.5														
<b>Mean</b>	<b>91.3</b>	<b>92.5</b>	<b>1.0</b>	<b>10.8</b>	<b>39.0</b>	<b>9.0</b>	<b>38.6</b>	<b>84.2</b>	<b>1.85</b>	<b>21.6</b>	<b>0.9</b>	<b>6.5</b>	<b>18.8</b>	<b>0.63</b>	<b>0.11</b>	<b>0.23</b>	<b>1.81</b>	<b>0.26</b>	<b>0.46</b>	<b>0.57</b>	<b>330</b>	<b>64</b>	<b>26</b>	<b>6</b>	<b>1.5</b>		
<b>CV (%)</b>	0.6	0.4	14.2	5.0	5.6	16.5	4.1	2.0	3.3	4.7	-	-	-	21.9	75.4	10.2	37.0	26.9	63.3	42.2	60.7	26.0	25.7	48.5	44.7		

	DM	OM	Fat	CP	SolP	UndP	NDF	dNDF	NEI	ADF	Lignin	Starch	Sugars	Ca	P	Mg	K	S	Na	Cl	Fe	Mn	Zn	Cu	Mo	Se	
	%	----- % DM -----	% DM	----- % CP -----	% CP	% CP	% DM	% NDF	Mcal/kg	----- % DM -----	% DM	----- % DM -----	% DM	% DM	----- % DM -----	% DM	% DM	% DM	% DM	% DM	----- ppm DM -----	ppm DM	ppm DM	ppm DM	ppm DM	ppm DM	
<b>Bermuda grass (hay)</b>	63.3	88.8	3.2	19.9		3.6	57.9	67.2	1.43	28.6																	
<b>Bermuda grass (seed screenings)</b>	94.3	91.2	2.2	7.8	32.0	17.9	65.1	26.2	0.79	37.4				0.58	0.19	0.29	1.03	0.41	0.14	0.67	514	59	31	5	2.3		
	93.5	87.9	3.1	12.5	30.0	14.4	56.3	42.4	1.08	27.3				0.72	0.35	0.26	0.98	0.40	0.08	0.44	841	83	44	16	1.6		
	90.7	88.5	5.1	21.4	36.0		41.2	53.3		30.2				0.92	0.42	0.36	1.21	0.29	0.14	0.46	1110	50	53	13	4.7		
	87.9	88.1	2.4	10.1	14.0	25.7	48.2	19.8	0.93	32.6				0.59	0.37	0.25	0.78	0.33	0.04	0.31	722	79	47	16	1.0		
	90.8	88.9	2.5	9.8	15.0	24.5	46.6	43.1	1.23	30.2				0.66	0.38	0.26	0.97	0.37	0.07	0.42	783	82	45	15	1.0		
<b>Mean</b>	<b>91.4</b>	<b>88.9</b>	<b>3.1</b>	<b>12.3</b>	<b>25.4</b>	<b>20.6</b>	<b>51.5</b>	<b>37.0</b>	<b>1.01</b>	<b>31.5</b>				<b>0.69</b>	<b>0.34</b>	<b>0.28</b>	<b>0.99</b>	<b>0.36</b>	<b>0.09</b>	<b>0.46</b>	<b>794</b>	<b>71</b>	<b>44</b>	<b>13</b>	<b>2.1</b>		
<b>CV (%)</b>	2.8	1.5	38.8	43.4	40.1	26.1	18.1	36.9	18.9	12.0				20.0	25.9	15.9	15.5	13.9	47.3	28.5	27.1	21.4	18.3	35.7	72.6		
<b>Brewers Grains (wet)</b>	28.2	96.3	6.2	24.4	15.0	7.4	31.4	56.9	1.81	15.3				0.17	0.56	0.23	0.23	0.30	0.04	0.08	134	46	78	8	2.2		
	26.4	95.0	7.7	29.4	15.0	4.8	36.0	42.9	1.65	15.2				0.22	0.67	0.28	0.29	0.31	0.06	0.08	183	46	93	1	2.0		
<b>Mean</b>	<b>27.3</b>	<b>95.7</b>	<b>7.0</b>	<b>26.9</b>	<b>15.0</b>	<b>6.1</b>	<b>33.7</b>	<b>49.9</b>	<b>1.73</b>	<b>15.3</b>				<b>0.20</b>	<b>0.62</b>	<b>0.26</b>	<b>0.26</b>	<b>0.31</b>	<b>0.05</b>	<b>0.08</b>	<b>159</b>	<b>46</b>	<b>86</b>	<b>5</b>	<b>2.0</b>		
<b>Brandy (pulp, wet)</b>	29.5	90.0	3.2	11.3	15.3		42.8	2.8	0.86	23.0				1.12	0.16	0.10	1.95	0.19	0.07	0.07	640	24	39	21			
<b>Canola Pellets (38% CP, solvent)</b>	90.6	92.0		42.2	36.4		31.0			18.5				0.77	1.08	0.56	1.35	0.87		0.12	287	58	75	10			
	91.2	92.4		42.0	35.4		30.4			18.2				0.71	0.35	0.52	1.24	0.88		0.07	225	59	74	10			
	89.0	92.5	3.8	40.4	27.6	5.9	24.1			17.4				0.74	1.19	0.61	1.47	0.89	0.08	0.17	216	54	70	3			
	89.5	92.3	3.3	38.1	28.4	3.4	24.2			16.8				0.71	1.26	0.63	1.54	0.88	0.02	0.26	221	55	71	2			
	90.1	91.1	3.2	39.6	31.0	7.1	27.2	56.1	1.64	20.9				1.17	1.29	0.57	1.59	0.70	0.03	0.06	259	71	58	7	3.0		
	90.2	91.9	4.4	43.8	31.0	6.6	28.5	41.7	1.57	19.0				0.83	1.24	0.52	1.38	0.71	0.09	0.07	247	68	58	2	2.5		
	90.3	91.4	3.7	41.1	29.0	10.5	28.9	48.1	1.54	22.7				1.03	1.54	0.60	1.62	0.65	0.02	0.08	262	66	67	4	1.3		
	90.0	91.8	4.7	40.8	29.0	10.3	30.4	54.1	1.61	23.1				0.81	1.59	0.63	1.58	0.71	0.03	0.08	327	64	62	4	1.8		
	86.9	92.3		38.7	26.7	6.2	25.5	45.0		17.4				0.89	1.45	0.65	1.65		0.09		192	58	66	6			
	89.2	91.6	3.5	39.2	24.0	6.9	28.3	45.3	1.56	22.0				0.90	1.26	0.62	1.57	0.68	0.05	0.13	307	69	67	3	3.9		
	86.7	91.2		38.8	21.0	5.2	27.0	43.0		19.3				0.81	1.27	0.68	1.54		0.10		357	57	92	6			
	89.5	91.7	3.1	40.8	27.0	6.4	29.8	65.6	1.68	20.8				0.95	1.28	0.64	1.64	0.65	0.03	0.08	205	74	75	4	3.9		
	86.9	91.7		44.1	35.0	5.7	26.5	44.0		17.9				0.79	1.14	0.62	1.44		0.13		262	57	72	6			
...	<b>continued</b>																										





	DM	OM	Fat	CP	SoIP	UndP	NDF	dNDF	NEI	ADF	Lignin	Starch	Sugars	Ca	P	Mg	K	S	Na	Cl	Fe	Mn	Zn	Cu	Mo	Se		
	%	----- % DM	----- % DM	----- % CP	----- % CP	----- % CP	% DM	% NDF	Mcal/kg	-----	-----	-----	-----	% DM	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
<b>Corn (grain, flaked)</b>																												
	86.2	99.5		9.4	26.9		11.7			3.4				0.05	0.25	0.07	0.24	0.12		0.05	33	5	22	5				
	87.2	99.3		9.9	15.8		11.7			3.3				0.05	0.24	0.10	0.30	0.12		0.08	38	6	23	5				
	86.2	99.7	3.9	9.2	37.3	15.2	11.1			3.5				0.01	0.23	0.10	0.36	0.14	0.01	0.22	44	6	22	1				
	87.3	99.4	3.7	8.9	34.1	19.1	17.5			5.6				0.02	0.20	0.10	0.35	0.13	0.01	0.19	31	4	24	1				
	88.0	98.7	2.8	8.0	9.0	12.5	8.8	89.7	2.17	3.0				0.01	0.18	0.06	0.26	0.09	0.01	0.07	21	3	12	1	1.0			
	90.9	98.9	3.6	11.1	11.0	9.0	12.4	63.0	2.09	5.9				0.02	0.25	0.09	0.33	0.10	0.01	0.09	37	6	20	1	1.0			
	88.5	98.6	6.6	8.6	22.0	8.1	9.7	73.6	2.25	3.9				0.01	0.28	0.11	0.44	0.09	0.01	0.07	51	7	22	1	1.7			
	88.1	98.8	3.4	8.2	10.0	11.0	10.7	67.9	2.12	4.5				0.01	0.28	0.09	0.36	0.09	0.01	0.10	76	7	19	1	1.0			
	86.1	98.8	3.3	9.4	22.4	0.0	8.1	63.9	2.26	3.5	0.2	74.5	0.4															
	85.7	98.6	1.9	7.6	28.5	0.0	8.3	69.2	2.23	2.9	0.5	68.5	0.3															
<b>Mean</b>	<b>87.4</b>	<b>99.0</b>	<b>3.6</b>	<b>9.0</b>	<b>21.7</b>	<b>9.4</b>	<b>11.0</b>	<b>71.2</b>	<b>2.19</b>	<b>4.0</b>	<b>0.4</b>	<b>71.5</b>	<b>0.4</b>	<b>0.02</b>	<b>0.24</b>	<b>0.09</b>	<b>0.33</b>	<b>0.11</b>	<b>0.01</b>	<b>0.11</b>	<b>41</b>	<b>6</b>	<b>21</b>	<b>2</b>	<b>1.2</b>			
<b>CV (%)</b>	0.6	0.1	13.1	3.6	14.7	25.5	7.9	5.6	1.3	8.4	-	-	-	77.9	14.8	18.8	19.2	18.2	0.0	56.8	40.0	25.7	18.4	92.6	29.8			
<b>Corn (hominy feed)</b>																												
	87.9	98.3	4.2	12.3	15.0	10.7	23.4	48.0	1.88	9.8				0.05	0.36	0.14	0.48	0.11	0.01	0.07	114	11	32	2	0.5			
	91.4	97.3	7.1	10.9	28.0	3.7	13.9	81.6	2.23	4.7				0.02	0.62	0.25	0.72	0.11	0.01	0.11	71	16	48	1	1.8			
	90.6	98.7	3.2	8.3	12.0	13.3	22.8	60.4	1.94	8.1				0.02	0.22	0.09	0.40	0.09	0.01	0.06	59	8	22	1	1.9			
<b>Mean</b>	<b>90.0</b>	<b>98.1</b>	<b>4.8</b>	<b>10.5</b>	<b>18.3</b>	<b>9.2</b>	<b>20.0</b>	<b>63.3</b>	<b>2.01</b>	<b>7.5</b>				<b>0.03</b>	<b>0.40</b>	<b>0.16</b>	<b>0.53</b>	<b>0.10</b>	<b>0.01</b>	<b>0.08</b>	<b>81</b>	<b>12</b>	<b>34</b>	<b>1</b>	<b>1.4</b>			
<b>Corn (silage -&gt; sorted from low to high NDF)</b>																												
	34.8	93.5	3.0	8.3	66.7	6.1	39.6	48.3	1.56	27.4	2.4	29.1	<0.2															
	34.5	90.5	2.7	7.8	69.3	7.3	40.1	42.5	1.41	28.5	2.7	27.3	<0.2															
	31.9	93.5	3.1	7.1	70.7	7.9	40.7	50.3	1.58	26.8	2.5	31.1	<0.2															
	33.6	93.2	3.1	8.0	71.7	7.0	42.0	49.2	1.53	29.3	2.6	26.8	<0.2															
	34.0	94.4	3.2	8.5		6.5	42.4	42.9	1.56	25.0																		
	34.1	92.2	3.6	7.2	67.4	7.8	43.0	47.4	1.49	29.9	2.4	27.0	<0.2															
	34.1	94.1	2.9	7.2	70.6	11.3	43.1	53.4	1.59	28.7	2.7	28.8	<0.2															
	30.6	92.8	5.1	8.8	60.5	10.6	43.5	46.1	1.51	33.3	4.1	22.6	<0.2															
	33.9	92.6	2.6	8.5	56.5	8.8	43.6	56.3	1.58	28.0	2.4	24.4	<0.2															
	24.7	94.7	5.3	8.5		4.7	43.8	39.2	1.48	26.7																		
	25.3	91.8	3.6	8.0	61.0	10.0	44.4	50.8	1.47	31.5				0.25	0.24	0.33	1.64	0.12	0.01	0.85	237	63	45	7	2.4			
	33.2	92.9	3.2	7.7	68.7	8.9	44.4	51.7	1.53	31.0	3.1	23.7	<0.2															
...	<i>continued</i>																											
	DM	OM	Fat	CP	SoIP	UndP	NDF	dNDF	NEI	ADF	Lignin	Starch	Sugars	Ca	P	Mg	K	S	Na	Cl	Fe	Mn	Zn	Cu	Mo	Se		
	%	----- % DM	----- % DM	----- % CP	----- % CP	----- % CP	% DM	% NDF	Mcal/kg	-----	-----	-----	-----	% DM	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
<b>Corn (silage -&gt; sorted from low to high NDF)</b>																												
	30.8	94.0	2.9	8.5	70.0	7.4	44.7	52.5	1.55	31.0	3.3	23.3	0.4															
	34.3	94.1		8.2	54.0		44.8			26.8				0.21	0.37	0.22	1.35				214	28	49	7				
	30.9	93.9		8.0	59.6		44.8			26.0				0.29	0.23	0.21	1.44				269	31	45	7				
	30.4	94.6		7.4	47.2	9.5	44.9			27.6				0.23	0.26	0.14	1.19				279	21	25	4				



	DM	OM	Fat	CP	SolP	UndP	NDF	dNDF	NEI	ADF	Lignin	Starch	Sugars	Ca	P	Mg	K	S	Na	Cl	Fe	Mn	Zn	Cu	Mo	Se	
	%	-----	% DM	-----	----	% CP	----	% DM	% NDF	Mcal/kg	-----	-----	-----	% DM	-----	-----	-----	-----	-----	-----	-----	-----	ppm DM	-----	-----	-----	
<b>Corn (silage -&gt; sorted from low to high NDF)</b>	. . .										<i>continued</i>																
	23.0	86.8	3.9	10.8	45.3	9.3	53.7							0.49	0.35	0.54	2.45	0.21	0.17	0.15	1113	82	88	33			
	26.8	93.8		8.3	49.0	8.4	54.7							0.27	0.21	0.19	1.11	0.14		0.39	261	47	40	3			
	28.4	94.9	2.1	8.5		7.2	54.7	37.9	1.20																		
	26.7	93.8	2.6	9.0		6.6	55.1	37.8	1.19																		
	32.9	90.8	4.5	8.9	60.0	15.7	55.7							0.16	0.48	0.18	2.10	0.11	0.01	0.61	163	21	53	7	1.0		
	19.3	93.8	3.1	9.3		6.1	67.0	36.2	0.99																		
<b>Mean</b>	<b>29.5</b>	<b>93.6</b>	<b>3.4</b>	<b>7.9</b>	<b>59.7</b>	<b>9.5</b>	<b>48.0</b>	<b>47.6</b>	<b>1.44</b>	<b>30.8</b>	<b>2.9</b>	<b>25.3</b>	<b>&lt;0.2</b>	<b>0.22</b>	<b>0.27</b>	<b>0.20</b>	<b>1.23</b>	<b>0.11</b>	<b>0.03</b>	<b>0.34</b>	<b>261</b>	<b>40</b>	<b>32</b>	<b>7</b>	<b>1.4</b>		
<b>CV (%)</b>	1.8	0.2	3.5	1.6	2.5	6.4	1.4	2.8	1.7	1.5	4.8	3.6	-	34.3	27.9	47.0	35.4	32.0	169.6	62.6	77.6	38.6	53.5	95.6	42.3		
<b>Cotton (hulls, seed)</b>																											
	91.5	95.1	3.1	13.7	22.0	39.4	82.8	17.8	0.36	65.5				0.26	0.45	0.31	1.41	0.69	0.06	0.09	530	23	34	7	1.1		
	93.4	95.7	2.1	10.6	27.0	38.7	85.9	8.5	0.16	70.7				0.23	0.24	0.25	1.32	0.28	0.04	0.13	376	16	19	5	1.0		
	93.5	96.1	6.6	9.5	17.0	37.1	72.7	13.8	0.64	63.9				0.29	0.28	0.24	1.16	0.10	0.03	0.07	194	19	37	3	1.6		
	92.6	95.5	6.0	13.6	44.0	33.1	78.8	21.8	0.61	61.9				0.23	0.28	0.21	1.31	1.26	0.04	0.09	253	26	24	8	1.5		
<b>Mean</b>	<b>92.8</b>	<b>95.6</b>	<b>4.5</b>	<b>11.9</b>	<b>27.5</b>	<b>37.1</b>	<b>80.1</b>	<b>15.5</b>	<b>0.44</b>	<b>65.5</b>				<b>0.25</b>	<b>0.31</b>	<b>0.25</b>	<b>1.30</b>	<b>0.58</b>	<b>0.04</b>	<b>0.10</b>	<b>338</b>	<b>21</b>	<b>29</b>	<b>6</b>	<b>1.3</b>		
<b>Cotton (meal, solvent)</b>																											
	89.6	92.5	2.4	42.0	10.0		30.0			21.4				0.28	1.21	0.61	1.73	0.44	0.26	0.13	120	20	60	16	2.1		
<b>Cotton (seed, upland with lint)</b>																											
	93.9	96.0		24.1	31.6		61.2			46.2				0.17	0.75	0.29	0.94	0.27		0.06	361	22	46	14			
	97.6	96.4		21.9	33.4		60.3			45.0				0.19	0.65	0.35	1.19	0.28		0.11	77	16	45	13			
	93.6	96.0	19.4	22.8	26.5	7.9	56.3			43.5				0.16	0.62	0.32	1.24				46	10	31	7			
	89.0	95.8	21.1	23.7	27.1	7.2	55.4			43.2				0.21	0.65	0.34	1.16				52	11	23	11			
	92.3	96.1	21.0	20.5	36.5	4.9	59.5			45.5				0.17	0.60	0.40	1.25	0.26	0.02	0.19	182	19	45	9			
	89.7	95.0	27.2	28.6	27.0	5.9	35.9	41.2	2.26	24.0				0.17	0.92	0.43	1.21	0.28	0.02	0.07	65	19	44	10	2.7		
	92.5	95.1	25.7	28.7	14.0	6.6	46.7	41.6	2.01	34.0				0.36	0.86	0.46	1.11	0.25	0.05	0.13	100	44	65	15	1.5		
	91.4	96.4		23.8	29.1	7.1	56.6	27.0		42.9				0.20	0.60	0.39	1.20		0.01		62	15	43	9			
	91.9	96.3		22.4	27.2	7.6	54.3	24.0		45.8				0.17	0.64	0.39	1.32		0.01		72	15	52	12			
	92.8	96.0		23.6	27.0	8.1	55.2	25.0		42.9				0.19	0.57	0.43	1.40				65	14	68	21			
<b>Mean</b>	<b>92.7</b>	<b>95.8</b>	<b>22.9</b>	<b>24.3</b>	<b>28.0</b>	<b>6.5</b>	<b>53.6</b>	<b>41.4</b>	<b>2.14</b>	<b>40.2</b>				<b>0.20</b>	<b>0.72</b>	<b>0.37</b>	<b>1.16</b>	<b>0.27</b>	<b>0.03</b>	<b>0.11</b>	<b>126</b>	<b>20</b>	<b>43</b>	<b>11</b>	<b>2.1</b>		
<b>CV (%)</b>	2.6	0.5	14.7	11.12	21.2	15.6	14.0	27.9	8.2	17.0				29.5	17.3	14.2	10.2	4.9	74.7	46.6	89.6	52.3	29.3	32.9	40.4		

	DM	OM	Fat	CP	SoIP	UndP	NDF	dNDF	NEI	ADF	Lignin	Starch	Sugars	Ca	P	Mg	K	S	Na	Cl	Fe	Mn	Zn	Cu	Mo	Se	
	%	----- % DM -----	% DM	----- % CP -----	% CP	% DM	% DM	% NDF	Mcal/kg	----- % DM -----	% DM	----- % DM -----	% DM	% DM	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----
<b>Cotton (seed, pima with lint)</b>																											
	92.6	94.8	27.9	28.8	22.0	5.9	26.3	28.1	2.36	16.8				0.21	0.76	0.40	1.15	0.30	0.05	0.08	26	12	30	6	4.0		
	94.8	96.1	15.4	17.9	14.0	22.3	67.5	53.1	1.54	44.2				0.21	0.52	0.29	1.09	0.20	0.01	0.09	107	19	34	7	1.3		
	92.6	94.7	30.9	29.8	25.0	3.7	43.1	68.3	2.58	31.6				0.16	1.00	0.41	1.20	0.32	0.01	0.08	39	12	34	8	1.0		
	93.7	95.3	23.1	29.8	32.0	6.0	53.7	55.5	2.05	39.5				0.20	0.98	0.44	1.29	0.30	0.01	0.09	51	15	41	9	1.3		
	92.5	95.8	30.5	27.9	27.0	5.7	36.8	55.9	2.54	23.8				0.20	1.03	0.46	1.38	0.30	0.01	0.08	51	17	35	9	1.0		
	93.2	95.1	28.1	30.4	24.0	3.9	36.6	58.0	2.48	25.8				0.19	1.08	0.46	1.35	0.34	0.01	0.13	66	15	49	11	1.0		
	93.2	94.7	27.3	31.8	27.0	4.1	40.9	59.7	2.40	30.4				0.23	1.02	0.44	1.31	0.35	0.01	0.19	64	16	49	7	2.3		
	93.0	94.8	26.7	28.9	29.0	4.5	44.7	58.5	2.32	34.6				0.21	1.13	0.48	1.36	0.31	0.01	0.12	60	16	49	8	1.3		
	92.9	94.9	28.3	27.7	28.0	4.7	49.6	63.2	2.36	32.9				0.19	1.14	0.48	1.34	0.31	0.01	0.09	55	15	42	9	1.1		
	93.6	95.1	34.0	28.4	25.0	3.2	48.5	48.9	2.40	34.0				0.20	1.04	0.44	1.34	0.27	0.01	0.09	56	14	42	9	1.3		
	93.7	95.4	23.6	27.2	29.0	5.5	46.9	48.4	2.08	33.1				0.20	0.98	0.44	1.27	0.30	0.01	0.02	50	15	45	9	1.0		
	92.7	95.2	26.9	27.6	28.0	4.7	47.9	52.8	2.22	37.4				0.19	0.99	0.43	1.27	0.28	0.01	0.09	43	14	34	8	1.0		
	93.5	95.3	23.0	29.4	25.0	2.4	48.1	46.0	2.04	37.9				0.19	1.04	0.44	1.32	0.30	0.01	0.07	57	15	39	9	1.3		
	93.5	95.3	24.0	28.1	25.0	2.8	50.3	46.0	2.03	35.9				0.19	1.01	0.44	1.30	0.29	0.01	0.11	53	14	39	9	1.3		
	93.3	94.9	27.2	32.2	27.0	2.8	38.8	46.7	2.32	26.4				0.19	1.09	0.47	1.31	0.34	0.01	0.10	48	14	42	9	1.0		
	92.3	95.2	25.7	29.8	28.0	7.0	42.4	44.2	2.16	29.6				0.23	1.00	0.46	1.30	0.29	0.01	0.11	56	15	40	11	1.0		
	92.4	95.3	23.8	27.7	28.0	5.1	47.1	45.9	2.06	35.6				0.20	0.93	0.42	1.27	0.28	0.01	0.10	46	15	36	9	1.2		
	92.1	94.9	30.1	32.1	25.0	2.8	36.8	65.0	2.59	23.1				0.16	0.96	0.42	1.23	0.33	0.01	0.11	59	14	39	9	1.0		
	92.8	96.6	27.7	28.5	24.0	3.5	39.7	52.9	2.41	28.1				0.19	1.04	0.46	1.30	0.28	0.01	0.06	47	15	38	9	1.0		
	93.9	95.0	29.3	27.8	26.0	3.2	42.9	54.5	2.39	25.8				0.16	1.03	0.42	1.20	0.46	0.01	0.04	35	13	35	8	1.0		
	93.2	95.3	27.6	31.1	24.0	2.9	41.2	56.2	2.39	31.9				0.19	1.06	0.47	1.27	0.29	0.01	0.05	43	15	41	9	1.0		
	93.6	95.8	20.0	19.8	14.0	9.6	58.1	37.0	1.65	44.5				0.17	0.88	0.40	1.20	0.21	0.01	0.09	38	13	31	7	1.0		
	94.1	94.7	32.9	26.7	29.0	2.6	40.0	64.7	2.65	24.7				0.18	1.26	0.50	1.30	0.29	0.01	0.07	50	15	39	9	1.0		
	92.5	95.0	30.7	34.5	27.0	2.9	38.4	74.0	2.69	20.0				0.17	0.98	0.41	1.19	0.35	0.01	0.11	65	15	42	9	1.0		
	93.1	95.1	29.1	30.8	25.0	2.9	45.6	62.4	2.44	29.1				0.16	0.97	0.41	1.19	0.32	0.01	0.08	49	13	39	7	1.0		
	93.4	95.0	32.9	31.5	31.0	3.5	43.0	51.2	2.47	32.9				0.18	1.13	0.48	1.31	0.32	0.01	0.09	130	14	48	9	1.3		
	94.1	95.4	25.5	31.1	27.0	1.6	49.8	55.4	2.20	33.5				0.18	1.12	0.47	1.33	0.33	0.01	0.12	62	14	52	11	1.1		
	93.9	95.0	25.2	31.8	28.0	3.5	37.9	49.9	2.29	28.4				0.22	1.03	0.43	1.28	0.32	0.01	0.09	48	14	40	8	1.3		
	94.0	95.2	24.9	29.9	26.0	2.3	41.9	50.2	2.24	27.6				0.18	1.07	0.46	1.32	0.31	0.01	0.12	60	14	51	9	1.2		
	93.7	95.5	23.7	24.6	26.0	6.1	53.0	46.4	1.97	36.8				0.17	0.89	0.40	1.23	0.27	0.01	0.09	41	13	33	7	1.0		
	94.3	95.2	24.1	28.2	21.0	3.2	45.3	53.2	2.19	31.6				0.19	1.05	0.45	1.34	0.30	0.01	0.05	61	14	51	12	1.5		
<b>Mean</b>	<b>93.3</b>	<b>95.2</b>	<b>26.8</b>	<b>28.8</b>	<b>25.7</b>	<b>4.7</b>	<b>44.6</b>	<b>53.3</b>	<b>2.27</b>	<b>31.2</b>				<b>0.19</b>	<b>1.01</b>	<b>0.44</b>	<b>1.28</b>	<b>0.31</b>	<b>0.01</b>	<b>0.09</b>	<b>55</b>	<b>14</b>	<b>41</b>	<b>9</b>	<b>1.3</b>		
<b>CV (%)</b>	0.7	0.4	14.6	11.6	15.2	78.6	17.0	17.2	11.6	20.4				10.1	12.7	8.8	5.3	14.4	63.6	34.2	35.2	9.6	15.2	15.2	45.7		

	DM	OM	Fat	CP	SolP	UndP	NDF	dNDF	NEI	ADF	Lignin	Starch	Sugars	Ca	P	Mg	K	S	Na	Cl	Fe	Mn	Zn	Cu	Mo	Se		
	%	----- % DM -----	----- % DM -----	----- % CP -----	----- % CP -----	----- % CP -----	% DM	% NDF	Mcal/kg	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	% DM	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	
<b>Distillers Grains (dehy/corn/w solubles; various sources)</b>																												
	89.7	95.2		29.0	25.7		50.8			19.1				0.13	1.04	0.39	1.18	0.64		0.30	221	31	74	12				
	88.9	93.3	9.0	30.3	10.8	28.4	37.2			19.4				0.53	0.75	0.37	1.24	0.91	0.33	0.25	258	42	64	7				
	87.3	95.1	9.3	29.7	20.6	6.1	38.2			17.6				0.15	0.97	0.46	1.32	0.55	0.11	0.21	264	66	83	8				
	88.3	94.1	13.6	30.5	22.0	10.2	45.5			20.9				0.12	0.97	0.46	1.40	0.40		0.20	195	72	71	8				
	89.8	97.5	3.2	24.0	21.0	16.3	48.7	84.6	1.80	18.2				0.03	0.57	0.11	0.28	0.31	0.02	0.31	136	8	66	1	1.0			
	90.8	95.5	13.3	31.7	13.0	17.4	31.9	71.8	2.04	17.6				0.09	0.90	0.32	1.03	0.62	0.05	0.17	126	35	79	2	1.6			
	92.0	94.9	15.7	34.1	4.0	35.2	31.4	95.8	2.15	26.9				0.09	0.91	0.37	0.99	0.57	0.06	0.17	160	50	61	6	2.7			
	86.5	94.6	14.4	32.1	13.0	11.2	33.3	74.0	2.09	22.1				0.11	1.01	0.34	1.16	0.67	0.08	0.19	192	33	56	4	1.0			
	90.1	94.1	9.8	28.6	11.0	28.7	33.3	67.2	1.80	19.9				0.13	0.97	0.44	1.16	0.52	0.21	0.21	195	73	76	1	2.9			
	91.2	95.0	6.0	26.5	14.0	21.5	31.3	71.7	1.81	23.6				0.12	0.66	0.25	0.87	0.50	0.07	0.07	156	19	49	4	1.5			
	90.5	94.9	10.4	30.2	8.0	48.7	34.0	70.5	1.72	29.9				0.07	0.82	0.35	0.99	0.70	0.19	0.13	124	37	61	2	2.7			
	87.0	95.3	12.9	30.9	12.0	30.1	32.9	78.1	1.99	20.9				0.10	0.90	0.32	1.15	0.69	0.05	0.16	173	35	54	3	1.0			
	91.5	95.0	14.6	29.1	3.0	35.4	31.2	74.0	1.99	27.6				0.07	0.94	0.40	1.15	0.62	0.04	0.20	139	38	86	1	2.4			
	90.2	94.9	12.4	29.8	13.0	31.9	30.4	81.1	2.00	25.8				0.13	0.91	0.33	1.18	0.58	0.07	0.17	169	34	60	2	1.1			
	89.4	95.2	9.3	33.0	8.0	46.4	34.8	70.9	1.67	31.0				0.06	0.82	0.34	0.91	0.60	0.21	0.12	158	40	62	1	3.2			
	90.9	94.6	11.9	31.5	11.0	41.3	29.0	82.9	1.93	26.0				0.08	0.96	0.45	1.11	0.57	0.07	0.15	276	57	70	2	3.4			
	90.2	94.5	13.7	29.9	9.0	23.7	34.1	71.5	1.97	20.6				0.05	1.14	0.32	1.16	0.43	0.19	0.70	204	15	79	5	1.0			
	91.0	95.1	13.6	29.9	15.0	16.4	35.2	73.3	2.04	16.7				0.08	0.85	0.32	1.17	0.40	0.12	0.19	107	16	102	1	1.9			
<b>Mean</b>	<b>89.7</b>	<b>94.9</b>	<b>11.4</b>	<b>30.0</b>	<b>13.5</b>	<b>26.4</b>	<b>36.5</b>	<b>76.2</b>	<b>1.93</b>	<b>22.2</b>				<b>0.12</b>	<b>0.90</b>	<b>0.35</b>	<b>1.08</b>	<b>0.58</b>	<b>0.12</b>	<b>0.22</b>	<b>180</b>	<b>38</b>	<b>69</b>	<b>4</b>	<b>2.0</b>			
<b>CV (%)</b>	1.7	0.9	29.1	7.5	47.0	47.8	19.1	10.0	7.5	19.7				86.6	14.8	23.1	21.5	24.4	72.9	60.0	26.8	49.3	18.5	81.9	46.0			
<b>Distillers Dried Grains (solubles; Dakota Gold)</b>																												
	88.2	95.5	12.6	31.1	16.8	10.0	28.7	76.7	2.19	14.8				0.04	0.66	0.33	0.93	0.62	0.16	0.17	83	16	76	5	1.0			
	89.1	95.6	11.4	30.4	17.1	6.5	31.2	76.1	2.15	13.5				0.02	0.68	0.31	0.96	0.30	0.10	0.16	65	15	77	4	0.7			
	86.8	95.6	10.5	31.9	20.6	6.3	27.0	77.4	2.17	14.0				0.02	0.60	0.30	0.85	0.89	0.10	0.15	72	15	100	4	0.8			
	88.3	95.4	11.5	30.1	18.3	6.9	30.7	78.0	2.16	14.4				0.03	0.71	0.33	1.00	0.58	0.18	0.16	72	17	89	5	0.8			
	88.6	95.4	12.3	31.8	17.1	6.9	26.4	81.1	2.25	13.3				0.03	0.66	0.30	0.91	0.64	0.31	0.15	85	13	84	4	0.5			
	87.4	95.7	12.0	28.8	17.6	5.0	28.4	77.5	2.22	13.1				0.02	0.68	0.29	0.94	0.49	0.12	0.13	68	13	180	5	0.4			
	89.1	95.5	12.5	29.5	19.5	8.6	25.5	76.4	2.22	14.2				0.02	0.75	0.30	0.98	0.59	0.13	0.13	72	15	220	5	0.5			
	88.0	95.4	11.2	29.7	15.7	9.1	29.3	78.5	2.16	15.5				0.02	0.69	0.28	0.89	0.71	0.11	0.12	78	17	85	5	0.6			
	89.7	95.1	12.6	32.7	15.6	12.4	23.9	76.8	2.21	16.1				0.02	0.77	0.28	0.95	0.57	0.07	0.14	68	17	80	7	0.9			
	87.2	95.2	12.1	31.0	16.8	10.6	30.2	76.2	2.14	15.4				0.02	0.78	0.32	1.00	0.55	0.16	0.16	66	13	96	5	1.0			
<b>Mean</b>	<b>88.2</b>	<b>95.4</b>	<b>11.9</b>	<b>30.7</b>	<b>17.5</b>	<b>8.2</b>	<b>28.1</b>	<b>77.5</b>	<b>2.19</b>	<b>14.4</b>				<b>0.02</b>	<b>0.70</b>	<b>0.30</b>	<b>0.94</b>	<b>0.59</b>	<b>0.144</b>	<b>0.15</b>	<b>73</b>	<b>15</b>	<b>109</b>	<b>5</b>	<b>0.7</b>			
<b>CV (%)</b>	0.3	0.1	1.9	1.3	2.8	8.8	2.7	0.6	0.5	2.2				9.2	2.5	1.9	1.6	8.0	14.8	3.5	3.0	3.5	14.4	5.7	9.9			

	DM	OM	Fat	CP	SolP	UndP	NDF	dNDF	NEI	ADF	Lignin	Starch	Sugars	Ca	P	Mg	K	S	Na	Cl	Fe	Mn	Zn	Cu	Mo	Se	
	%	----- % DM -----	----- % DM -----	----- % CP -----	----- % CP -----	----- % CP -----	% DM	% NDF	Mcal/kg	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	% DM	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	
<b>Distillers Dried Grains (solubles; Dakota Gold)</b>																											
	91.7	96.0	11.8	27.7	12.6	9.4	35.8	70.9	2.18	11.0				0.05	0.81	0.30	1.12	0.59	0.12	0.15	82	16	223	4.9	0.7		
	92.3	95.9	11.8	26.9	6.1	10.3	35.4	71.7	2.19	11.9				0.04	0.84	0.32	1.10	0.55	0.15	0.15	92	18	249	4.8	0.7		
	91.3	96.0	10.8	27.8	10.6	10.9	33.9	72.9	2.18	12.3				0.04	0.82	0.31	1.07	0.73	0.20	0.15	86	17	238	4.7	0.7		
	91.9	95.9	11.1	27.4	11.1	9.7	34.7	67.2	2.12	11.4				0.05	0.84	0.32	1.11	0.70	0.15	0.16	82	16	220	4.7	0.7		
	91.8	95.9	11.3	27.6	11.7	9.8	34.1	68.1	2.14	11.8				0.04	0.83	0.32	1.12	0.59	0.17	0.15	83	18	251	4.7	0.8		
	91.1	95.9	11.1	28.7	12.2	10.6	32.5	69.5	2.16	13.2				0.04	0.87	0.33	1.13	0.44	0.16	0.15	86	18	283	5.0	0.8		
	91.0	95.8	11.4	28.3	11.5	9.8	33.8	79.4	2.28	12.8				0.04	0.86	0.32	1.16	0.76	0.24	0.16	81	16	305	5.4	0.7		
	89.6	96.0	11.4	28.9	13.4	10.0	32.1	78.2	2.28	12.0				0.04	0.86	0.32	1.17	0.75	0.14	0.17	85	16	269	4.8	0.7		
	91.0	96.1	11.2	26.7	7.8	11.5	32.3	80.0	2.29	12.2				0.03	0.85	0.31	1.15	0.58	0.17	0.16	85	16	239	4.9	0.7		
	90.6	95.9	11.0	27.6	13.3	10.8	31.6	78.3	2.27	11.9				0.05	0.83	0.31	1.11	0.75	0.31	0.16	83	16	267	4.7	0.8		
<b>Mean</b>	<b>91.2</b>	<b>95.9</b>	<b>11.3</b>	<b>27.8</b>	<b>11.0</b>	<b>10.3</b>	<b>33.6</b>	<b>73.6</b>	<b>2.21</b>	<b>12.1</b>				<b>0.04</b>	<b>0.84</b>	<b>0.32</b>	<b>1.12</b>	<b>0.64</b>	<b>0.18</b>	<b>0.16</b>	<b>85</b>	<b>17</b>	<b>254</b>	<b>4.9</b>	<b>0.7</b>		
<b>CV (%)</b>	<b>0.8</b>	<b>0.1</b>	<b>2.9</b>	<b>2.5</b>	<b>21.4</b>	<b>6.4</b>	<b>4.3</b>	<b>6.7</b>	<b>3.0</b>	<b>5.3</b>				<b>15.1</b>	<b>2.3</b>	<b>2.7</b>	<b>2.7</b>	<b>17.0</b>	<b>30.7</b>	<b>4.5</b>	<b>3.8</b>	<b>5.7</b>	<b>10.5</b>	<b>4.5</b>	<b>6.6</b>		
<b>Distillers Dried Grains (solubles, raw starch hydrolysis; Dakota Gold)</b>																											
	90.4	95.9	10.2	28.6	17.0	7.2	29.2	76.5	2.26	9.8				0.04	0.78	0.32	1.14	1.03	0.24	0.17	105	20	98	8.2	1.2		
	90.7	95.9	10.5	28.2	14.5	7.1	27.7	75.9	2.27	10.0				0.03	0.78	0.31	1.14	1.04	0.25	0.14	95	19	97	7.1	1.2		
	90.2	95.9	10.6	27.4	15.3	8.4	28.9	68.2	2.18	9.3				0.03	0.78	0.32	1.14	0.98	0.22	0.17	92	20	101	6.5	1.1		
	90.2	96.1	10.8	27.6	14.6	6.7	26.7	77.0	2.31	9.7				0.03	0.78	0.32	1.13	0.98	0.18	0.17	86	19	99	6.4	1.1		
	90.4	96.1	10.1	28.8	18.4	6.9	26.5	79.2	2.31	10.2				0.03	0.81	0.32	1.13	1.05	0.19	0.17	86	19	99	6.3	1.1		
	88.9	95.6	11.0	29.4	20.0	5.9	26.1	81.0	2.35	9.9				0.03	0.83	0.34	1.21	1.19	0.31	0.18	90	21	104	6.8	1.1		
	91.7	95.7	10.9	28.3	18.2	5.7	26.8	76.8	2.31	9.8				0.03	0.79	0.32	1.16	1.04	0.29	0.17	83	20	102	6.5	1.0		
	93.9	95.8	11.0	26.3	13.9	6.0	25.9	73.2	2.28	8.4				0.03	0.80	0.32	1.15	1.04	0.22	0.17	83	19	98	6.4	1.0		
	86.3	95.6	11.9	29.9	22.3	5.5	30.7	76.6	2.31	9.5				0.03	0.85	0.35	1.27	1.12	0.33	0.18	91	21	125	6.0	1.1		
	90.0	95.7	10.0	28.3	17.4	7.4	28.3	70.8	2.19	9.7				0.03	0.78	0.32	1.15	1.03	0.29	0.18	84	19	103	5.9	1.2		
<b>Mean</b>	<b>90.3</b>	<b>95.8</b>	<b>10.7</b>	<b>28.3</b>	<b>17.2</b>	<b>6.7</b>	<b>27.7</b>	<b>75.5</b>	<b>2.28</b>	<b>9.6</b>				<b>0.03</b>	<b>0.80</b>	<b>0.32</b>	<b>1.16</b>	<b>1.05</b>	<b>0.25</b>	<b>0.17</b>	<b>90</b>	<b>20</b>	<b>103</b>	<b>6.6</b>	<b>1.1</b>		
<b>CV (%)</b>	<b>2.1</b>	<b>0.2</b>	<b>5.2</b>	<b>3.6</b>	<b>15.8</b>	<b>13.6</b>	<b>5.7</b>	<b>5.1</b>	<b>2.4</b>	<b>5.2</b>				<b>10.2</b>	<b>3.1</b>	<b>3.6</b>	<b>3.8</b>	<b>5.9</b>	<b>20.2</b>	<b>6.8</b>	<b>7.6</b>	<b>4.2</b>	<b>8.0</b>	<b>9.9</b>	<b>6.6</b>		







	DM	OM	Fat	CP	SoIP	UndP	NDF	dNDF	NEI	ADF	Lignin	Starch	Sugars	Ca	P	Mg	K	S	Na	Cl	Fe	Mn	Zn	Cu	Mo	Se
	%	----- % DM -----	% DM	----- % CP -----	----- % CP -----	% DM	% DM	% NDF	Mcal/kg	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	% DM	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----
<b>Rice (bran)</b>																										
	85.9	91.5	23.3	15.1		2.9	18.9	45.9	2.42	8.8																
	87.7	90.5	23.4	15.4		3.0	26.6	41.7	2.27	11.6																
	90.9	92.1	18.8	13.2		3.3	17.5	32.6	2.28	7.3																
<b>Rice (grain, whole)</b>																										
	87.6	98.4	2.9	7.2		0.1	4.6	41.9	2.17	2.3																
<b>Rice (grain, paddy)</b>																										
	87.9	97.8	3.0	8.0		4.3	11.6	16.2	1.96	8.1																
<b>Rice (hulls)</b>																										
Aug-01	92.9	87.8	1.0	2.3	24.0	47.8	68.7			57.5				0.20	0.08	0.08	0.83	0.03	0.03	0.25	284	36	14	10	1.3	
<b>Rice (polishings)</b>																										
	90.3	90.9		15.0	39.0	4.7	24.2	45.2		11.9				0.06	2.09	0.79	1.71	0.17	0.01		131	181	45	6	1.0	
<b>Rice straw (hay)</b>																										
	93.6	86.6	1.7	3.7		11.4	63.4	32.0	0.82	44.3																
	90.5	81.9	2.1	5.4		10.2	66.4	43.9	0.85	48.1				0.30	0.10	0.22	1.88	0.08	0.05	0.73	199	608	22	3.8	0.2	
	94.3	81.0	1.1	4.5		14.3	73.0	40.3	0.66	53.6																
	93.3	83.3	1.2	5.5		13.7	69.6	34.1	0.66	52.2																
	93.0	84.7	2.0	4.4	29.6	29.8	69.7	46.5	0.88	48.8	4.4	3.0	2.9													
	90.7	80.8	1.8	5.8		20.8	75.3	41.4	0.65	55.3																
<b>Mean</b>	92.6	83.0	1.7	4.9	29.6	16.7	69.6	39.7	0.75	50.4	4.4	3.0	2.9	0.30	0.10	0.22	1.88	0.08	0.05	0.73	199	608	22	3.8	0.2	
<b>CV (%)</b>	0.7	1.1	10.3	6.8	-	18.1	2.5	5.8	5.8	3.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Rice straw (silage)</b>																										
	37.6	83.0	2.6	6.5	36.0	8.8	70.7	29.0	0.60	49.6				0.51	0.16	0.16	1.93	0.08	0.01		373	1417	24	19	1.0	
	36.2	82.6	2.8	7.6	39.0	7.8	69.3	30.1	0.63	50.3				0.44	0.14	0.20	2.14	0.17	0.01		416	2111	25	23	1.4	
	43.0	80.5	1.6	5.8	39.0	9.5	65.5	24.2	0.54	50.8				0.28	0.12	0.18	1.61	0.07	0.02		686	1420	28	26	1.6	
	34.4	83.1	1.9	6.6	35.0	10.7	73.0	22.9	0.45	52.7				0.38	0.16	0.17	1.64	0.09	0.06		469	1690	24	21	1.6	
<b>Mean</b>	<b>37.8</b>	<b>82.3</b>	<b>2.2</b>	<b>6.6</b>	<b>37.3</b>	<b>9.2</b>	<b>69.6</b>	<b>26.6</b>	<b>0.55</b>	<b>50.9</b>				<b>0.40</b>	<b>0.15</b>	<b>0.18</b>	<b>1.83</b>	<b>0.10</b>	<b>0.03</b>		<b>486</b>	<b>1660</b>	<b>25</b>	<b>22</b>	<b>1.4</b>	
<b>CV (%)</b>	4.9	0.7	12.0	5.4	2.8	6.6	2.2	6.7	7.3	1.3				12.1	6.6	4.8	6.9	22.3	47.6		14.3	9.9	3.7	6.7	10.1	

	DM	OM	Fat	CP	SoIP	UndP	NDF	dNDF	NEI	ADF	Lignin	Starch	Sugars	Ca	P	Mg	K	S	Na	Cl	Fe	Mn	Zn	Cu	Mo	Se		
	%	----- % DM	----- % DM	----- % CP	----- % CP	----- % DM	----- % DM	----- % DM	Mcal/kg	-----	-----	-----	-----	% DM	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
<b>Rye (whole crop, silage)</b>	24.1	88.7	4.8	11.8	57.0	8.5	53.3	73.4	1.59	33.9				0.64	0.34	0.21	2.47	0.16	0.21	0.73	295	77	31	7	2.4			
<b>Ryegrass (pellets, screenings)</b>	93.2	84.3	2.3	10.9	15.0	14.7	54.6	42.1	1.01	34.8				0.53	0.29	0.20	1.03	0.23	0.05	0.30	3280	244	41	6	4.9			
<b>Ryegrass (silage)</b>	26.0	92.3	2.9	8.9	56.7	11.2	61.6	57.3	1.32	38.3				0.42	0.25	0.18	1.90	0.20	0.34	0.76								
	29.4	90.0	2.7	8.3	49.4	8.4	63.8	53.8	1.20	41.2				0.42	0.23	0.23	1.75	0.26	0.40	0.30								
	<b>27.7</b>	<b>91.2</b>	<b>2.8</b>	<b>8.6</b>	<b>53.1</b>	<b>9.8</b>	<b>62.7</b>	<b>55.6</b>	<b>1.26</b>	<b>39.8</b>				<b>0.42</b>	<b>0.24</b>	<b>0.21</b>	<b>1.83</b>	<b>0.23</b>	<b>0.37</b>	<b>0.53</b>								
<b>Safflower (meal, solvent)</b>	94.4	94.4	1.9	29.9	14.0	9.0	53.3	16.3	0.85	39.5				0.37	0.68	0.33	1.09	0.29	0.03	0.21	508	36	83	23	1.8			
<b>Soy (hulls, pellets)</b>	90.2	94.6		12.7	23.0	11.8	63.3	88.1	1.67	48.5				0.65	0.14	0.22	1.59	0.12	0.01	0.01	651	24	47	8	1.0			
	93.8	95.2	2.1	12.4	16.0	12.9	63.0	95.0	1.83	43.0				0.60	0.14	0.22	1.27	0.10	0.01	0.04	482	18	37	6	1.3			
<b>Mean</b>	<b>92.0</b>	<b>94.9</b>	<b>2.1</b>	<b>12.6</b>	<b>19.5</b>	<b>12.4</b>	<b>63.2</b>	<b>91.6</b>	<b>1.75</b>	<b>45.8</b>				<b>0.63</b>	<b>0.14</b>	<b>0.22</b>	<b>1.43</b>	<b>0.11</b>	<b>0.01</b>	<b>0.03</b>	<b>567</b>	<b>21</b>	<b>42</b>	<b>7</b>	<b>1.2</b>			
<b>Soy (hulls, screenings)</b>	87.6	95.0	6.6	22.1	28.6		47.5			46.1				0.51	0.41	0.23	2.07	0.21	0.01	0.29								
<b>Soy (meal, solvent)</b>	90.2	91.8	1.6	53.2	18.0	3.4	10.6	79.1	1.86	7.3				0.38	0.85	0.33	2.56	0.47	0.01	0.06	290	47	58	21	5.6			
	93.4	92.8	2.3	53.5	10.0	5.0	13.8	96.8	1.90	10.2				0.63	0.79	0.31	2.28	0.37	0.01	0.05	151	43	58	17	4.8			
	89.1	91.9	1.4	54.1	17.0	3.0	9.6	88.3	1.88	7.2				0.52	0.76	0.33	2.40	0.42	0.02	0.07	156	42	60	16	4.5			
	92.7	93.2	1.3	51.9		1.7	8.1	84.9	2.03	6.4																		
	91.7	92.6	0.8	49.9	21.2	0.0	8.3	69.9	2.03	5.0	0.3	5.8	9.6															
	91.2	92.6	0.4	50.9	21.3	0.0	8.0	69.9	2.02	4.7	0.1	5.5	10.3															
	90.8	92.2	0.6	52.5	21.3	1.0	10.4	69.2	1.98	6.0	0.2	4.2	8.2															
<b>Mean</b>	<b>91.3</b>	<b>92.4</b>	<b>1.2</b>	<b>52.3</b>	<b>18.1</b>	<b>2.0</b>	<b>9.8</b>	<b>79.7</b>	<b>1.96</b>	<b>6.7</b>	<b>0.2</b>	<b>5.2</b>	<b>9.4</b>	<b>0.51</b>	<b>0.80</b>	<b>0.32</b>	<b>2.41</b>	<b>0.42</b>	<b>0.01</b>	<b>0.06</b>	<b>199</b>	<b>44</b>	<b>59</b>	<b>18</b>	<b>5.0</b>			
<b>CV (%)</b>	0.6	0.2	21.2	1.1	9.9	35.3	7.9	5.1	1.5	10.4	28.9	9.5	6.6	29.5	15.1	30.3	27.1	39.7	43.3	11.3	28.9	11.2	14.4	36.5	45.1			

	DM	OM	Fat	CP	SoIP	UndP	NDF	dNDF	NEI	ADF	Lignin	Starch	Sugars	Ca	P	Mg	K	S	Na	Cl	Fe	Mn	Zn	Cu	Mo	Se	
	%	----- % DM -----	----- % DM -----	----- % CP -----	----- % CP -----	----- % DM -----	% DM	% NDF	Mcal/kg	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	% DM	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- % DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	----- ppm DM -----	
<b>Soy (waste, tofu)</b>	20.2	95.9	18.2	31.5	40.1	2.2	20.5			14.7				0.28	0.41	0.22	1.64	0.33	0.02	0.18	140	20	40	9			
<b>Sudan grass (chaff)</b>	93.2	92.3	1.6	8.0	30.0		64.7	46.1		35.8				0.36	0.17	0.18	1.68	0.26	0.10	0.87	196	38	29	8	1.3		
	94.5	91.2	2.1	9.7	28.0	15.5	67.6	52.3	1.12	44.4				0.37	0.27	0.30	2.26	0.15	0.03	1.23	304	33	32	13	1.0		
<b>Mean</b>	<b>93.9</b>	<b>91.8</b>	<b>1.9</b>	<b>8.9</b>	<b>29.0</b>	<b>15.5</b>	<b>66.2</b>	<b>49.2</b>	<b>1.12</b>	<b>40.1</b>				<b>0.37</b>	<b>0.22</b>	<b>0.24</b>	<b>1.97</b>	<b>0.21</b>	<b>0.07</b>	<b>1.05</b>	<b>250</b>	<b>36</b>	<b>31</b>	<b>11</b>	<b>1.2</b>		
<b>Tomato Paste</b>	20.3	86.7	3.6	25.6	66.0	4.7	19.9	89.7	1.90	18.2				0.16	0.49	0.25	5.28	0.28	0.25		41	13	25	3	1.0		
<b>Tomato Pomace (silage)</b>	29.8	91.1		17.3	54.0	19.1	62.9	39.2		53.9				0.42	0.40	0.31	0.81	0.21	0.06		1810	60	37	46	1.0		
<b>Walnut (meal)</b>	92.4	94.9	6.2	33.7	3.0	8.0	40.2	43.4	1.49	35.2				0.45	0.67	0.33	1.13	0.24	0.09	0.15	1050	74	77	31	1.3		
	93.6	94.8	6.2	30.5	6.0	7.5	37.4	33.7	1.47	34.6				0.35	0.64	0.27	1.06	0.26	0.02	0.07	276	58	52	22	1.0		
	91.7			27.1	23.0	5.9	39.0	8.2		38.2				0.32	0.53	0.26	0.96	0.16	0.03		235	81	40	13	1.0		
<b>Mean</b>	<b>92.6</b>	<b>94.9</b>	<b>6.2</b>	<b>30.4</b>	<b>10.7</b>	<b>7.1</b>	<b>38.9</b>	<b>28.4</b>	<b>1.48</b>	<b>36.0</b>				<b>0.37</b>	<b>0.61</b>	<b>0.29</b>	<b>1.05</b>	<b>0.22</b>	<b>0.05</b>	<b>0.11</b>	<b>520</b>	<b>71</b>	<b>56</b>	<b>22</b>	<b>1.1</b>		
<b>Wheat (millrun/mids)</b>	88.9	94.8		20.5	39.4		45.2			12.7				0.19	1.17	0.42	1.19	0.28		0.15	156	130	95	16			
	89.7	94.5		20.4	51.7		35.4			11.8				0.11	1.17	0.19	0.59	0.08		0.13	258	134	94	15			
	94.8	94.9	5.1	20.3	38.0	4.9	38.5	52.4	1.66	15.2				0.22	0.87	0.34	1.00	0.21	0.02	0.15	141	112	66	8	1.2		
	91.0	94.9	4.3	19.7	38.0	2.5	36.7	52.2	1.67	13.4				0.12	1.07	0.47	1.21	0.19	0.01	0.12	148	153	96	10	3.3		
	92.3	94.8	4.2	17.0	43.0	2.9	39.9	49.1	1.60	12.4				0.15	1.33	0.44	1.32	0.16	0.01	0.12	149	127	87	7	2.7		
<b>Mean</b>	<b>91.3</b>	<b>94.8</b>	<b>4.5</b>	<b>19.6</b>	<b>42.0</b>	<b>3.4</b>	<b>39.1</b>	<b>51.2</b>	<b>1.64</b>	<b>13.1</b>				<b>0.16</b>	<b>1.12</b>	<b>0.37</b>	<b>1.06</b>	<b>0.18</b>	<b>0.01</b>	<b>0.13</b>	<b>170</b>	<b>131</b>	<b>88</b>	<b>11</b>	<b>2.4</b>		
<b>CV (%)</b>	2.5	0.2	10.9	7.5	13.8	37.5	9.7	3.6	2.4	10.0				29.5	15.1	30.3	27.1	39.7	43.3	11.3	28.9	11.2	14.4	36.5	45.1		

	DM	OM	Fat	CP	SolP	UndP	NDF	dNDF	NEI	ADF	Lignin	Starch	Sugars	Ca	P	Mg	K	S	Na	Cl	Fe	Mn	Zn	Cu	Mo	Se		
	%	% DM	% DM	% CP	% CP	% DM	% DM	% NDF	Mcal/kg	% DM	% DM	% DM	% DM	% DM	% DM	% DM	% DM	% DM	% DM	% DM	% DM	ppm DM	ppm DM	ppm DM	ppm DM	ppm DM		
<b>Wheat (whole crop, silage -&gt; sorted from low to high NDF)</b>																												
	32.5	88.8	2.7	9.5	71.0	7.4	45.8	52.6	1.39	32.7				0.24	0.33	0.13	2.09	0.15	0.05	0.70	274	38	33	11	2.9			
	33.1	89.8	3.6	12.0	75.8	6.3	46.2	49.2	1.41	32.6	4.0	13.9	1.0															
	40.2	90.0	2.4	7.9	72.0	8.7	47.9	45.9	1.31	34.2	3.6	14.9	4.6															
	41.5	82.5		10.2	64.0	16.7	50.6	54.8	1.13	38.9				0.46	0.29	0.13	2.00	0.16	0.05	0.72	2230	48	45	27				
	36.0	86.8	2.4	11.8	76.7	10.1	50.6	51.0	1.27	38.0	3.9	12.2	<0.2															
	30.1	86.5	2.8	12.9	73.4	13.2	51.8			37.7				0.25	0.34	0.11	2.26	0.21	0.02	0.48	313	35	33	10				
	21.6	86.0	3.5	7.0	71.0	10.0	53.4	47.4	1.20	37.4				0.23	0.27	0.13	1.29	0.10	0.01	0.23	822	70	25	9	2.4			
	27.9	85.4	2.5	12.2	70.7	10.2	56.3	54.4	1.22	40.8	4.4	4.0	<0.2															
	31.2	88.6	2.3	9.1	76.8	13.0	57.2	57.6	1.33	40.2	4.5	4.9	1.5															
<b>Mean</b>	<b>31.6</b>	<b>87.0</b>	<b>2.7</b>	<b>10.6</b>	<b>72.9</b>	<b>10.6</b>	<b>51.8</b>	<b>51.6</b>	<b>1.29</b>	<b>37.4</b>	<b>4.1</b>	<b>9.8</b>	<b>1.9</b>	<b>0.28</b>	<b>0.31</b>	<b>0.13</b>	<b>1.85</b>	<b>0.14</b>	<b>0.04</b>	<b>0.54</b>	<b>834</b>	<b>49</b>	<b>33</b>	<b>14</b>	<b>2.7</b>			
<b>CV (%)</b>	5.8	0.9	6.0	5.9	1.9	10.2	2.6	2.4	2.4	2.6	3.3	19.3	44.3	15.8	4.3	3.8	9.5	14.8	23.9	16.5	43.5	12.8	10.1	25.1	9.4			
<b>Wheat (hay)</b>																												
	91.3	89.0	2.5	10.0		3.3	54.4	51.7	1.3	34.6																		
<b>Wheat (straw)</b>																												
	91.3	12.5	1.7	7.4	46.1	10.8	70.9			48.2				0.54	0.13	0.13	2.29	0.20		2.86	165	18	20	7				
	92.8	90.7	1.0	10.4	43.4	6.6	52.1	45.5	1.21	35.2	3.6	12.5	5.8															
	92.7	90.4	1.0	6.6	26.0	13.2	66.2	46.0	1.00	44.2	4.6	7.3	3.3															
<b>Mean</b>	92.3	64.5	1.2	8.1	38.5	10.2	63.1	45.7	1.11	42.5	4.1	9.9	4.6	0.5	0.1	0.1	2.3	0.2		2.9	165.0	18.0	20.0	7.0				

### Assay Codes

DM	Dry matter	NDF	-	Neutral detergent fiber
OM	Organic matter (i.e., 100-ash)	dNDF	-	NDF estimated to be digested in the rumen
Fat	Fat	NEI	-	Net energy for lactation (3X Maintenance) calculated from the assays according to equations described in 'Estimating the Energy Value of Ruminant Feedstuffs' (posted 3/15/99)
CP	Crude Protein			
SolP	CP estimated to be immediately soluble in the rumen	ADF	-	Acid detergent fiber
UndP	CP estimated to be totally indigestible in the digestive tract			