

FeedVal 2012 Overview and Valuation of Drought Stressed Corn Silage

Victor E. Cabrera

Analyze

Restore Default Values

Select Number of Nutrients: (6) Hide/Show Price Inputs View Overview Download Spreadsheet

Ingredients	Nutrient						As-Fed Basis			Calculated	
	RUPA-1	ADP3-1	NE13a-1	Lysid-1	pHND-1	Ca %	DM %	Price \$/Unit	Unit	Predicted Value \$/Unit	Actual Price as % of Predicted Value
	Nutrient Calculated Value, \$/Unit										
Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	89	6	(bu)	5.248 /bu	114
Soybean Meal 48%	21	33	1	1.1	0	0.35	89	300	(ton)	330.39 /ton	91
Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	89	280	(ton)	307.74 /ton	91
Soybean Meal expeller	30	36	1.09	1.8	0	0.36	92	325	(ton)	385.30 /ton	94
Soybeans, raw	12	28	1.25	1.9	0	0.32	87	380	(ton)	330.20 /ton	115
Soybeans, heated	22	31	1.24	1.9	0	0.26	92	425	(ton)	388.44 /ton	109
Good Quality Hay	6	14	10.6	12	95	1.3	87	180	(ton)	176.48 /ton	100
Poor Quality Hay	4.8	11.2	10.5	12	50	1	87	120	(ton)	152.16 /ton	79
Corn Silage	2.8	4.2	0.67	3.2	30	0.28	35	50	(ton)	59.183 /ton	84

FeedVal 2012



- Decision support tool to evaluate the ACTUAL value of feed ingredients
- Help dairy farmers, nutritionists, consultants make economical decisions for:
 - Purchasing feed ingredients
 - Using available feed ingredients

FeedVal 2012

- Calculates the value of individual NUTRIENTS
- Calculates the value of feed INGREDIENTS
- Gives RELATIVE value of feed ingredients



Let's Use FeedVal 2012

3 Select ingredients

Upload Parameters as Excel File

Upload the Excel File: no file selected

Select Number of Nutrients:

Ingredients ↓	Nutrient						Calculated	
	RUP %	RDP %	NEI3x	Lipid	peND	Ca %	Predicted Value \$/Unit	Actual Price as % of Predicted Value
<input checked="" type="checkbox"/> Shelled Corn	4.5	4.5	0.91	4.2	0	0.04		
<input checked="" type="checkbox"/> Soybean Meal 48%	21	33	1	1.1	0	0.35		
<input checked="" type="checkbox"/> Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4		
<input checked="" type="checkbox"/> Soybean Meal expeller	30	16	1.09	8	0	0.36		
<input checked="" type="checkbox"/> Soybeans, raw	12	28	1.25	19	0	0.32		
<input checked="" type="checkbox"/> Soybeans, heated	22	21	1.24	19	0	0.26		
<input checked="" type="checkbox"/> Good Quality Hay	6	14	0.6	2	35	1.3		
<input checked="" type="checkbox"/> Poor Quality Hay	4.8	11.2	0.5	2	50	1		
<input checked="" type="checkbox"/> Corn Silage	2.8	4.2	0.67	3.2	30	0.28		

Let's Use FeedVal 2012

Upload Parameters as Excel File

Upload the Excel File: no file selected

Select Number of Nutrients:

Select/Unselect All	Nutrient						Calculated	
	RUP %	RDP %	NEI3x	Lipid	peND	Ca %	Predicted Value \$/Unit	Actual Price as % of Predicted Value
Nutrient Calculated Value, \$/Unit								
Ingredients ↓								
<input checked="" type="checkbox"/> Shelled Corn	4.5	4.5	0.91	4.2	0	0.04		
<input checked="" type="checkbox"/> Soybean Meal 48%	21	33	1	1.1	0	0.35		
<input checked="" type="checkbox"/> Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4		
<input checked="" type="checkbox"/> Soybean Meal expeller	30	16	1.09	8	0	0.36		
<input checked="" type="checkbox"/> Soybeans, raw	12	28	1.25	19	0	0.32		
<input checked="" type="checkbox"/> Soybeans, heated	22	21	1.24	19	0	0.26		
<input checked="" type="checkbox"/> Good Quality Hay	6	14	0.6	2	35	1.3		
<input checked="" type="checkbox"/> Poor Quality Hay	4.8	11.2	0.5	2	50	1		
<input checked="" type="checkbox"/> Corn Silage	2.8	7.2	0.67	3.2	30	0.28		

4

Edit ingredients
& composition

Let's Use FeedVal 2012

Upload Parameters as Excel File

Upload the Excel File: no file selected

Analyze

Select Number of Nutrients:

INPUTS - Nutrients for Ingredients							INPUTS - Price Inputs			OUTPUTS	
Select/Unselect All	Nutrient						As-Fed Basis			Calculated	
	RUP %	RDP %	NEI3%	Lipid	peND	Ca %	DM %	Price \$/Unit	Unit	Predicted Value \$/Unit	Actual Price as % of Predicted Value
Ingredients ↓	Nutrient Calculated Value, \$/Unit										
<input checked="" type="checkbox"/> Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	89	6	bu		
<input checked="" type="checkbox"/> Soybean Meal 48%	21	33	1	1.1	0	0.35	89	300	ton		
<input checked="" type="checkbox"/> Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	89	280	ton		
<input checked="" type="checkbox"/> Soybean Meal expeller	30	16	1.09	8	0	0.36	92	325	ton		
<input checked="" type="checkbox"/> Soybeans, raw	12	28	1.25	19	0	0.32	87	380	ton		
<input checked="" type="checkbox"/> Soybeans, heated	22	21	1.24	19	0	0.26	92	425	ton		
<input checked="" type="checkbox"/> Good Quality Hay	6	14	0.6	2	35	1.3	87	180	ton		
<input checked="" type="checkbox"/> Poor Quality Hay	4.8	11.2	0.5	2	50	1	87	120	ton		
<input checked="" type="checkbox"/> Corn Silage	2.8	4.2	0.67	3.2	30	0.28	35	50	ton		

5 Edit ingredient price inputs

Let's Use FeedVal 2012

Perform calculations

6

Upload Parameters as Excel File

Upload the Excel File: Choose File no file selected Upload

Analyze

Restore <http://dairymgt.info>
Analysis complete.

Select Number of Nutrients: 6 Hide/Show Price Inputs

OK

INPUTS - Nutrients for Ingredients

Select/Unselect All	Nutrient						DM %	Price \$/Unit	Unit	Calculated	
	RUP %	RDP %	NE13%	Lipid	peND	Ca %				Predicted Value \$/Unit	Actual Price as % of Predicted Value
	Nutrient Calculated Value, \$/Unit										
Ingredients ↓											
<input checked="" type="checkbox"/> Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	89	6	bu		
<input checked="" type="checkbox"/> Soybean Meal 48%	21	33	1	1.1	0	0.35	89	300	ton		
<input checked="" type="checkbox"/> Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	89	280	ton		
<input checked="" type="checkbox"/> Soybean Meal expeller	30	16	1.09	8	0	0.36	92	325	ton		
<input checked="" type="checkbox"/> Soybeans, raw	12	28	1.25	19	0	0.32	87	380	ton		
<input checked="" type="checkbox"/> Soybeans, heated	22	21	1.24	19	0	0.26	92	425	ton		
<input checked="" type="checkbox"/> Good Quality Hay	6	14	0.6	2	35	1.3	87	180	ton		
<input checked="" type="checkbox"/> Poor Quality Hay	4.8	11.2	0.5	2	50	1	87	120	ton		
<input checked="" type="checkbox"/> Corn Silage	2.8	4.2	0.67	3.2	30	0.28	35	50	ton		

OUTPUTS

Let's Use FeedVal 2012

Upload Parameters as Excel File

Upload the Excel File: no file selected

Select Number of Nutrients:

INPUTS - Nutrients for Ingredients							INPUTS - Price Inputs			OUTPUTS	
Select/Unselect All	Nutrient						As-Fed Basis			Calculated	
	RUP %	RDP %	NEI3x	Lipid	Starch	Ca %	DM %	Price \$/Unit	Unit	Predicted Value \$/Unit	Actual Price as % of Predicted Value
Nutrient Calculated Value, \$/Unit											
Ingredients ↓	0.287	0.087	0.094	0.061	0.021	0.535					
<input checked="" type="checkbox"/> Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	89	6	bu	5.248 /bu	114
<input checked="" type="checkbox"/> Soybean Meal 48%	21	33	1	1.1	0	0.35	89	300	ton	330.39 /ton	91
<input checked="" type="checkbox"/> Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	89	280	ton	307.74 /ton	91
<input checked="" type="checkbox"/> Soybean Meal expeller	30	16	1.09	8	0	0.36	92	325	ton	385.30 /ton	84
<input checked="" type="checkbox"/> Soybeans, raw	12	28	1.25	19	0	0.32	87	380	ton	330.20 /ton	115
<input checked="" type="checkbox"/> Soybeans, heated	22	21	1.24	19	0	0.26	92	425	ton	388.44 /ton	109
<input checked="" type="checkbox"/> Good Quality Hay	6	14	0.6	2	35	1.3	87	180	ton	176.48 /ton	102
<input checked="" type="checkbox"/> Poor Quality Hay	4.8	11.2	0.5	2	50	1	87	120	ton	152.58 /ton	79
<input checked="" type="checkbox"/> Corn Silage	2.8	4.2	0.67	3.2	30	0.28	35	50	ton	59.183 /ton	84

Study results 7

Let's Use FeedVal 2012

Upload Parameters as Excel File

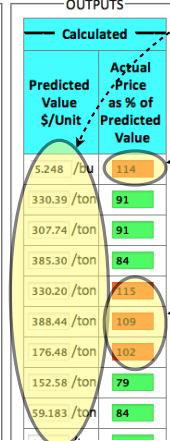
Upload the Excel File: no file selected

Analyze

Select Number of Nutrients:

INPUTS - Nutrients for Ingredients							INPUTS - Price Inputs			OUTPUTS	
Select/Unselect All	Nutrient						DM %	Price \$/Unit	Unit	Calculated	
	RUP %	RDP %	NEI3x	Lipid	peND	Ca %				Predicted Value \$/Unit	Actual Price as % of Predicted Value
Ingredients	Nutrient Calculated Value, \$/Unit										
	0.287	0.087	0.094	0.061	0.021	0.535					
<input checked="" type="checkbox"/> Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	89	6	bu	5.248 /bu	114
<input checked="" type="checkbox"/> Soybean Meal 48%	21	33	1	1.1	0	0.35	89	300	ton	330.39 /ton	91
<input checked="" type="checkbox"/> Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	89	280	ton	307.74 /ton	91
<input checked="" type="checkbox"/> Soybean Meal expeller	30	16	1.09	8	0	0.36	92	325	ton	385.30 /ton	84
<input checked="" type="checkbox"/> Soybeans, raw	12	28	1.25	19	0	0.32	87	380	ton	330.20 /ton	115
<input checked="" type="checkbox"/> Soybeans, heated	22	21	1.24	19	0	0.26	92	425	ton	388.44 /ton	109
<input checked="" type="checkbox"/> Good Quality Hay	6	14	0.6	2	35	1.3	87	180	ton	176.48 /ton	102
<input checked="" type="checkbox"/> Poor Quality Hay	4.8	11.2	0.5	2	50	1	87	120	ton	152.58 /ton	79
<input checked="" type="checkbox"/> Corn Silage	2.8	4.2	0.67	3.2	30	0.28	35	50	ton	59.183 /ton	84

Study results 7



Let's Use FeedVal 2012

Upload Parameters as Excel File

Upload the Excel File: no file selected

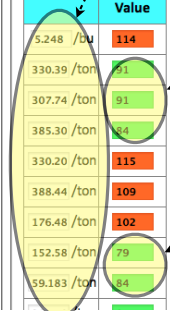
Select Number of Nutrients:

INPUTS - Nutrients for Ingredients						
Select/Unselect All	Nutrient					
	RUP %	RDP %	NEI3x	Lipid	peND	Ca %
Nutrient Calculated Value, \$/Unit						
Ingredients	0.287	0.087	0.094	0.061	0.021	0.535
<input checked="" type="checkbox"/> Shelled Corn	4.5	4.5	0.91	4.2	0	0.04
<input checked="" type="checkbox"/> Soybean Meal 48%	21	33	1	1.1	0	0.35
<input checked="" type="checkbox"/> Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4
<input checked="" type="checkbox"/> Soybean Meal expeller	30	16	1.09	8	0	0.36
<input checked="" type="checkbox"/> Soybeans, raw	12	28	1.25	19	0	0.32
<input checked="" type="checkbox"/> Soybeans, heated	22	21	1.24	19	0	0.26
<input checked="" type="checkbox"/> Good Quality Hay	6	14	0.6	2	35	1.3
<input checked="" type="checkbox"/> Poor Quality Hay	4.8	11.2	0.5	2	50	1
<input checked="" type="checkbox"/> Corn Silage	2.8	4.2	0.67	3.2	30	0.28

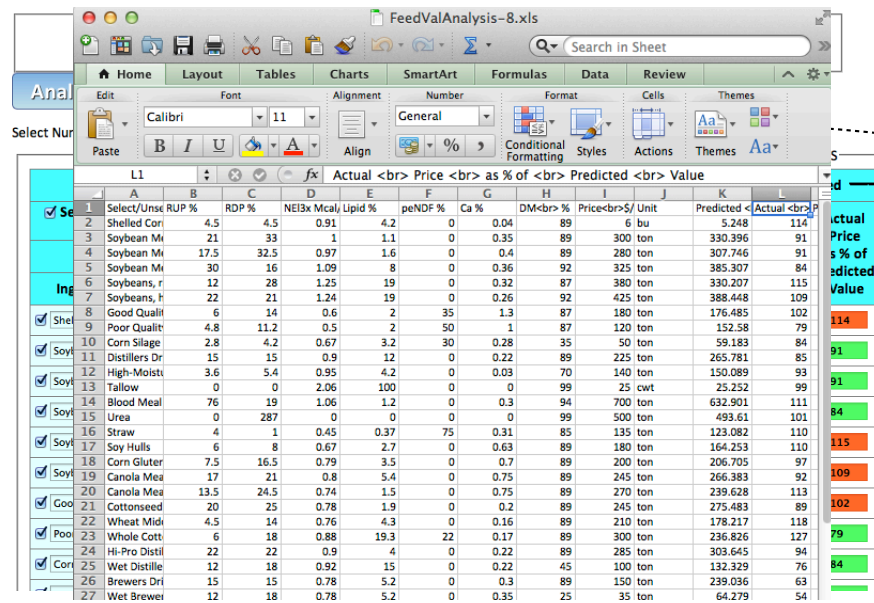
INPUTS - Price Inputs		
DM %	Price \$/Unit	Unit
89	6	bu
89	300	ton
89	280	ton
92	325	ton
87	380	ton
92	425	ton
87	180	ton
87	120	ton
35	50	ton

OUTPUTS - Calculated	
Predicted Value \$/Unit	Actual Price as % of Predicted Value
5.248 /bu	114
330.39 /ton	91
307.74 /ton	91
385.30 /ton	84
330.20 /ton	115
388.44 /ton	109
176.48 /ton	102
152.58 /ton	79
59.183 /ton	84

Study results 7



Let's Use FeedVal 2012



The screenshot shows the FeedVal 2012 spreadsheet application. The window title is "FeedValAnalysis-8.xls". The ribbon includes Home, Layout, Tables, Charts, SmartArt, Formulas, Data, Review, and Themes. The Home ribbon is active, showing Font (Calibri, 11), Alignment, General, and Format tabs. The spreadsheet data is as follows:

	A	B	C	D	E	F	G	H	I	J	K	L
	Select/Unse	RUP %	RD	NEI3x Mca	Lipid %	peNDF %	Ca %	DM %	Price / Unit	Predicted 	Actual 	
1	Shelled Cor	4.5	4.5	0.91	4.2	0	0.04	89	6 bu	5.248	114	
2	Soybean M	21	33	1	1.1	0	0.35	89	300 ton	330.396	91	
3	Soybean M	17.5	32.5	0.97	1.6	0	0.4	89	280 ton	307.746	91	
4	Soybean M	30	16	1.09	8	0	0.36	92	325 ton	385.207	84	
5	Soybeans, r	12	28	1.25	19	0	0.32	87	380 ton	330.207	115	
6	Soybeans, h	22	21	1.24	19	0	0.26	92	425 ton	388.448	109	
7	Good Qualit	6	14	0.6	2	35	1.3	87	180 ton	176.485	102	
8	Poor Qualit	4.8	11.2	0.5	2	50	1	87	120 ton	152.58	79	114
9	Corn Silage	2.8	4.2	0.67	3.2	30	0.28	35	50 ton	59.183	84	91
10	Distillers Dr	15	15	0.9	12	0	0.22	89	225 ton	265.781	85	91
11	High-Moist	3.6	5.4	0.95	4.2	0	0.03	70	140 ton	150.089	93	91
12	Tallow	0	0	2.06	100	0	0	99	25 cwt	25.252	99	91
13	Blood Meal	76	19	1.06	1.2	0	0.3	94	700 ton	632.901	111	84
14	Urea	0	287	0	0	0	0	99	500 ton	493.61	101	84
15	Straw	4	1	0.45	0.37	75	0.31	85	135 ton	123.082	110	115
16	Soy Hulls	6	8	0.67	2.7	0	0.63	89	180 ton	164.253	110	115
17	Corn Gluter	7.5	16.5	0.79	3.5	0	0.7	89	200 ton	206.705	97	109
18	Canola Mea	17	21	0.8	5.4	0	0.75	89	245 ton	266.383	92	109
19	Canola Mea	13.5	24.5	0.74	1.5	0	0.75	89	270 ton	239.628	113	102
20	Cottonseed	20	25	0.78	1.9	0	0.2	89	245 ton	275.483	89	102
21	Wheat Mid	4.5	14	0.76	4.3	0	0.16	89	210 ton	178.217	118	79
22	Whole Cott	6	18	0.88	19.3	22	0.17	89	300 ton	236.826	127	79
23	Hi-Pro Distil	22	22	0.9	4	0	0.22	89	285 ton	303.645	94	84
24	Wet Distille	12	18	0.92	15	0	0.22	45	100 ton	132.329	76	84
25	Brewers Dri	15	15	0.78	5.2	0	0.3	89	150 ton	239.036	63	
26	Wet Brewer	12	18	0.78	5.2	0	0.35	25	35 ton	64.279	54	

Download Spreadsheet 9

Let's Use FeedVal 2012

Upload Parameters as Excel File

Upload the Excel File: no file selected

Analyze

Select Number of Nutrients: 6

Downloads

Name	Date Modified	Calculated
FeedValAnalysis-8.xls	Today 8:08 A	
V3508.pdf	Aug 3, 2012	
FeedValAnalysis-7.xls	Aug 3, 2012	
FeedValAnalysis-6.xls	Aug 3, 2012	
FeedValAnalysis-5.xls	Aug 2, 2012	
cluster_input-2.xls	Aug 2, 2012	
output	Aug 1, 2012	48 /bu 114
BalanceSheetAgFAImportTemplate2.xlsx	Aug 1, 2012	39 /ton 91
UW-DairyRepro\$Plus-4.xlsm	Jul 30, 2012	74 /ton 91
cluster_input-1.xls	Jul 30, 2012	
FeedValAnalysis-4.xls	Jul 30, 2012	30 /ton 84
MILAGRITOS CABRERA_07-25-2012.pdf	Jul 27, 2012	20 /ton 115
MacKeeper.2.3.1.pkg	Jul 27, 2012	
cow_replacement_template-1.xlsx	Jul 27, 2012	44 /ton 109

Cancel Choose

Ingredient	2.8	4.2	0.67	3.2	30	0.28	35	50	ton	59.183 /ton	84
Corn Silage											

Upload Spreadsheet 10

May-Jun 2012 Full Analysis

Ingredient	NEI3x														Price Input		Predicted Value \$/Unit	Input Price as % of Predicted Value
	RUP %	RD %	Mcal/lb	Lipid %	peNDF %	Ca %	Phos %	Lys %	Met %	NDF %	dNDF	Starch	Sugars	DM%	\$/Unit	Unit		
Wet Brewers	12	18	0.78	5.2	0	0.35	0.59	1.22	0.51	47.1	24	3.8	2.5	25	35	ton	59	60
Brewers Dried Grains	15	15	0.78	5.2	0	0.3	0.67	1.22	0.51	47.4	21	3.8	2.5	89	150	ton	206	73
Corn Silage	2.8	4.2	0.67	3.2	30	0.28	0.26	0.18	0.11	42	24	30	2.5	35	50	ton	64	78
Wet Distillers	12	18	0.92	15	0	0.22	0.83	0.67	0.55	38.8	19	2.5	2.5	45	100	ton	128	78
Poor Quality Hay	4.8	11.2	0.5	2	50	1	0.28	0.75	0.24	50	20	2.5	2.5	87	120	ton	151	80
High-Moisture Corn	3.6	5.4	0.95	4.2	0	0.03	0.3	0.25	0.19	10.3	5	72	1.5	70	140	ton	168	83
Soybean Meal 48%	21	33	1	1.1	0	0.35	0.7	3.4	0.78	9.8	4.9	2.7	1.5	89	300	ton	343	87
Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	0.71	3.15	0.72	14.9	7.5	2.7	1.5	89	280	ton	318	88
Cottonseed Meal	20	25	0.78	1.9	0	0.2	1.15	1.86	0.72	30.8	9	1.5	1.5	89	245	ton	273	90
Malt Sprouts	9	21	0.68	2.3	0	0.24	0.51	1.31	0.4	47	21	3.8	2.5	89	150	ton	165	91
Distillers Dried Grains	15	15	0.9	12	0	0.22	0.83	0.67	0.55	38.8	19	2.5	2.5	89	225	ton	245	92
Canola Meal, expeller	17	21	0.8	5.4	0	0.75	1.1	2.14	0.71	30	6	1.5	1.5	89	245	ton	265	92
Soybean Meal expeller	30	16	1.09	8	0	0.36	0.66	2.89	0.66	21.7	8	2.7	1.5	92	325	ton	346	94
Corn Gluten Feed	7.5	16.5	0.79	3.5	0	0.7	1	0.66	0.39	35.5	18	23.3	2.5	89	200	ton	209	96
Tallow	0	0	2.06	100	0	0	0	0	0	0	0	0	0	99	25	cwt	26	98
Whey	1	9	0.85	0.7	0	1.37	1.04	0.74	0.14	0	0	4	70	20	50	ton	51	98
Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	0.3	0.25	0.19	9.5	4.8	72	2	89	6	bu	6	99
Wheat Bran	3.5	14	0.73	4.3	0	0.13	1.18	0.71	0.28	42.5	21	29	2.5	89	200	ton	199	100
Urea	0	287	0	0	0	0	0	0	0	0	0	0	0	99	500	ton	497	101
Blood Meal	76	19	1.06	1.2	0	0.3	0.3	8.5	1.11	0	0	0	0	94	700	ton	683	102
Wheat Middlings	4.5	14	0.76	4.3	0	0.16	1.18	0.67	0.3	36.7	18	29	2.5	89	210	ton	206	102
Molasses	2	4	0.8	0.2	0	1	0.1	0.06	0.01	0.1	0.1	5	80	89	175	ton	169	104
Corn Gluten Meal	42	23	1.08	2.5	0	0.06	0.6	1.1	1.54	11.1	3	2.5	1.5	89	450	ton	428	105
Hi-Pro Distillers	22	22	0.9	4	0	0.22	0.45	0.99	0.8	25	12	2	2	89	285	ton	268	106
Good Quality Hay	6	14	0.6	2	35	1.3	0.3	0.94	0.3	40	20	2.5	2.5	87	180	ton	168	107
Soybeans, raw	12	28	1.25	19	0	0.32	0.6	2.52	0.58	19.5	10	10	2	87	380	ton	341	111
Soybeans, heated	22	21	1.24	19	0	0.26	0.64	2.71	0.62	22.1	8	10	2	92	425	ton	382	111
Straw	4	1	0.45	0.37	75	0.31	0.3	0.16	0.06	73	33	1	1	85	135	ton	121	111
Oats	4.5	8.5	0.81	5.1	0	0.11	0.4	0.54	0.22	30	12	47	2.5	89	200	ton	180	111
Canola Meal, solvent	13.5	24.5	0.74	1.5	0	0.75	1.1	2.14	0.71	29.8	6	1.5	1.5	89	270	ton	242	112
Linseed Meal	16	16	0.72	1.7	0	0.4	0.83	1.18	0.56	36.1	11	4	1.5	89	225	ton	194	116
Beet Pulp	5	5	0.67	1.1	0	0.91	0.9	0.35	0.13	45.8	32	0.5	10	89	150	ton	126	119
Whole Cottonseed	6	18	0.88	19.3	22	0.17	0.6	1.04	0.41	50.3	20	1	1	89	300	ton	244	123
Sunflower Meal	8	21	0.63	1.4	0	0.48	1	1.07	0.69	40.3	12	6	1.5	89	250	ton	192	130
Soy Hulls	6	8	0.67	2.7	0	0.63	0.17	0.88	0.16	60.3	45	5.3	1.5	89	180	ton	137	131
Hominy	4	8	0.86	4.2	0	0.03	0.65	0.44	0.21	21.1	11	31	1.5	89	250	ton	166	150

Bargain

Best

Normal

Overpriced

Worst

Jul 23 2012 Full Analysis

Ingredient	NEI3x													DM%	Price Input \$/Unit	Unit	Predicted Value \$/Unit	Input Price as % of Predicted Value
	RUP %	RDV %	Mcal/lb	Lipid %	peNDF %	Ca %	Phos %	Lys %	Met %	NDF %	dNDF	Starch	Sugars					
Hi-Pro Distillers	22	22	0.9	4	0	0.22	0.45	0.99	0.8	25	12	2	2	89	300 ton	409	73	
Wet Distillers	12	18	0.92	15	0	0.22	0.83	0.67	0.55	38.8	19	2.5	2.5	45	125 ton	161	78	
Poor Quality Hay	4.8	11.2	0.5	2	50	1	0.28	0.75	0.24	50	20	2.5	2.5	87	150 ton	190	79	
Corn Silage	2.8	4.2	0.67	3.2	30	0.28	0.26	0.18	0.11	42	24	30	2.5	35	60 ton	75	80	
High-Moisture Corn	3.6	5.4	0.95	4.2	0	0.03	0.3	0.25	0.19	10.3	5	72	1.5	70	200 ton	233	86	
Wet Brewers	12	18	0.78	5.2	0	0.35	0.59	1.22	0.51	47.1	24	3.8	2.5	25	75 ton	87	87	
Brewers Dried Grains	15	15	0.78	5.2	0	0.3	0.67	1.22	0.51	47.4	21	3.8	2.5	89	250 ton	285	88	
Distillers Dried Grains	15	15	0.9	12	0	0.22	0.83	0.67	0.55	38.8	19	2.5	2.5	89	270 ton	302	89	
Malt Sprouts	9	21	0.68	2.3	0	0.24	0.51	1.31	0.4	47	21	3.8	2.5	89	250 ton	278	90	
Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	0.71	3.15	0.72	14.9	7.5	2.7	1.5	89	500 ton	549	91	
Hominy	4	8	0.86	4.2	0	0.03	0.65	0.44	0.21	21.1	11	31	1.5	89	250 ton	273	91	
Corn Gluten Feed	7.5	16.5	0.79	3.5	0	0.7	1	0.66	0.39	35.5	18	23.3	2.5	89	250 ton	265	94	
Soybean Meal 48%	21	33	1	1.1	0	0.35	0.7	3.4	0.78	9.8	4.9	2.7	1.5	89	550 ton	578	95	
Whole Cottonseed	6	18	0.88	19.3	22	0.17	0.6	1.04	0.41	50.3	20	1	1	89	300 ton	313	96	
Blood Meal	76	19	1.06	1.2	0	0.3	0.3	8.5	1.11	0	0	0	0	94	700 ton	724	97	
Canola Meal, expeller	17	21	0.8	5.4	0	0.75	1.1	2.14	0.71	30	6	1.5	1.5	89	360 ton	373	97	
Tallow	0	0	2.06	100	0	0	0	0	0	0	0	0	0	99	25 cwt	26	98	
Cottonseed Meal	20	25	0.78	1.9	0	0.2	1.15	1.86	0.72	30.8	9	1.5	1.5	89	360 ton	363	99	
Beet Pulp	5	5	0.67	1.1	0	0.91	0.9	0.35	0.13	45.8	32	0.5	10	89	150 ton	152	99	
Whey	1	9	0.85	0.7	0	1.37	1.04	0.74	0.14	0	0	4	70	20	50 ton	50	99	
Good Quality Hay	6	14	0.6	2	35	1.3	0.3	0.94	0.3	40	20	2.5	2.5	87	250 ton	248	101	
Urea	0	287	0	0	0	0	0	0	0	0	0	0	0	99	500 ton	497	101	
Oats	4.5	8.5	0.81	5.1	0	0.11	0.4	0.54	0.22	30	12	47	2.5	89	250 ton	246	102	
Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	0.3	0.25	0.19	9.5	4.8	72	2	89	8 bu	8	103	
Wheat Middlings	4.5	14	0.76	4.3	0	0.16	1.18	0.67	0.3	36.7	18	29	2.5	89	240 ton	233	103	
Molasses	2	4	0.8	0.2	0	1	0.1	0.06	0.01	0.1	0.1	5	80	89	175 ton	169	103	
Wheat	4.2	10	0.91	2.3	0	0.05	0.43	0.22	0.21	13.4	6.7	67	2	89	8.4 bu	8	104	
Canola Meal, solvent	13.5	24.5	0.74	1.5	0	0.75	1.1	2.14	0.71	29.8	6	1.5	1.5	89	400 ton	382	105	
Sunflower Meal	8	21	0.63	1.4	0	0.48	1	1.07	0.69	40.3	12	6	1.5	89	320 ton	302	106	
Barley	3.4	9	0.85	2.2	0	0.06	0.39	0.45	0.21	20.8	10.4	60	2	89	14.75 cwt	14	107	
Soybean Meal expeller	30	16	1.09	8	0	0.36	0.66	2.89	0.66	21.7	8	2.7	1.5	92	525 ton	480	109	
Wheat Bran	3.5	14	0.73	4.3	0	0.13	1.18	0.71	0.28	42.5	21	29	2.5	89	240 ton	217	110	
Corn Gluten Meal	42	23	1.08	2.5	0	0.06	0.6	1.1	1.54	11.1	3	2.5	1.5	89	640 ton	577	111	
Soybeans, heated	22	21	1.24	19	0	0.26	0.64	2.71	0.62	22.1	8	10	2	92	600 ton	526	114	
Soybeans, raw	12	28	1.25	19	0	0.32	0.6	2.52	0.58	19.5	10	10	2	87	17.5 bu	15	115	
Linseed Meal	16	16	0.72	1.7	0	0.4	0.83	1.18	0.56	36.1	11	4	1.5	89	370 ton	283	131	
Soy Hulls	6	8	0.67	2.7	0	0.63	0.17	0.88	0.16	60.3	45	5.3	1.5	89	280 ton	207	135	
Straw	4	1	0.45	0.37	75	0.31	0.3	0.16	0.06	73	33	1	1	85	140 ton	97	144	

Bargain

Best

Normal

Overpriced

Worst

Source: UW-Extension Dairy Cattle Nutrition: <http://www.uwex.edu/ces/dairynutrition/>

Drought Stressed Corn Silage

INPUTS - Nutrients for Ingredients

Nutrient		
<input type="checkbox"/> Select/Unselect All	CP % <input type="text"/>	TDN % <input type="text"/>
Nutrient Calculated Value, \$/Unit		
Ingredients ↓	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/> Shelled Corn	9.4	89
<input checked="" type="checkbox"/> Soybean Meal 48%	53.8	81
<input checked="" type="checkbox"/> Drought Stressed CS	10	65

INPUTS - Price Inputs

As-Fed Basis		
DM %	Price \$/Unit	Unit
84.5	8	bu <input type="text"/>
89	26	cwt <input type="text"/>
35	16	ton <input type="text"/>

OUTPUTS

Calculated	
Predicted Value \$/Unit	Actual Price as % of Predicted Value
<input type="text"/> /bu	<input type="text"/>
<input type="text"/> /cwt	<input type="text"/>
<input type="text"/> /ton	<input type="text"/>

- Fertilizer removed
- 12lb N x \$0.60
 - 4 lb P x \$0.55
 - 12 lb K x \$0.55

Drought Stressed Corn Silage

INPUTS - Nutrients for Ingredients			INPUTS - Price Inputs			OUTPUTS	
<input type="checkbox"/> Select/Unselect All			As-Fed Basis			Calculated	
Nutrient			DM %	Price \$/Unit	Unit	Predicted Value \$/Unit	
Nutrient Calculated Value, \$/Unit							
Ingredients ↓							
<input checked="" type="checkbox"/> Shelled Corn	CP % <input type="text" value="9.4"/>	TDN % <input type="text" value="89"/>	<input type="text" value="84.5"/>	<input type="text" value="8"/>	<input type="text" value="bu"/>		
<input checked="" type="checkbox"/> Soybean Meal 48%	<input type="text" value="53.8"/>	<input type="text" value="81"/>	<input type="text" value="89"/>	<input type="text" value="26"/>	<input type="text" value="cwt"/>		
<input checked="" type="checkbox"/> Drought Stressed CS	<input type="text" value="10"/>	<input type="text" value="65"/>	<input type="text" value="35"/>	<input type="text" value="16"/>	<input type="text" value="ton"/>	<input type="text" value="69.20"/>	<input type="text" value="/ton"/>

Value based on corn & SBM

69.20

Drought Stressed Corn Silage

Price soybean meal \$/cwt as fed basis	Corn price , \$/bu as fed basis									
	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10
	Stressed Corn Silage Price Base , \$ per 35% DM ton									
\$8	14.77	21.54	28.30	35.40	42.15	48.92	55.68	62.45	69.21	76.00
\$10	15.51	22.27	29.04	36.12	42.89	49.65	56.42	63.18	69.95	76.71
\$12	16.28	23.04	29.81	36.89	43.66	50.42	57.19	63.95	70.72	77.48
\$14	17.01	23.78	30.54	37.63	44.39	51.16	57.92	64.69	71.45	78.22
\$16	17.78	24.55	31.31	38.4	45.16	51.93	58.69	65.46	72.22	79.00
\$18	18.52	25.28	32.05	39.13	45.90	52.67	59.43	66.19	73.00	79.72
\$20	19.29	26.05	32.82	39.90	46.67	53.43	60.20	66.96	73.73	80.49
\$22	20.02	26.79	33.55	40.64	47.4	54.17	60.93	67.70	74.46	81.23
\$24	20.79	27.56	34.32	41.41	48.17	54.94	61.7	68.47	75.23	82.00
\$26	21.53	28.29	35.06	42.14	48.91	55.67	62.44	69.20	75.97	82.73
\$28	22.30	29.06	35.83	42.91	49.68	56.44	63.21	69.97	76.74	83.50
\$30	23.03	29.80	36.56	43.65	50.41	57.18	63.94	70.71	77.47	84.24

Further Price Adjustments

- **Moisture:**

- (Actual DM / Calculated DM)*Base price

- E.g., 30% DM = (30%/35%)*\$69.20 = \$59.31

- Easier: Enter Actual DM into FeedVal 2012

INPUTS - Price Inputs

As-Fed Basis

DM %	Price \$/Unit	Unit
84.5	8	bu
89	26	cwt
30	16	ton

\$60.06

Further Price Adjustments

- **Quality:**

Corn Growth Stage	Dairy Herd < 80 lb/cow/d	Dairy Herd > 80lb/cow/d
Pre-tassel	90%	80%
Silk	80%	70%
Soft dough	85%	80%
Early dent	90%	87%
1/2 kernel milk line	100%	100%
Black layer	90%	90%

Source: Darby and Lauer, 2002

FeedVal 2012 Tool Availability

DairyMGT.info

The screenshot shows the DairyMGT.info website homepage. At the top, there is a banner image of cows in a field with the text "Dairy Management UW-Extension University of Wisconsin-Madison". Below the banner is a navigation menu with links for Home, Tools, Projects, Publications, Presentations, Links, and Find. A secondary menu includes About, Contact, Comments, News, People, Opportunities, and a search box. The main content area is titled "Dairy Management" and contains a paragraph about the site's purpose. On the left side, there are several sections: "Latest Projects" with links to Genomic Selection and Herd Management, Dairy Reproduction Decision Support Tools, Strategies of Pasture Supplementation, Improving Dairy Cow Fertility, and LQM Dairy; "Helpful Link" with a link to the Beers Money Program; "Contact" with a photo of Victor E. Cabrera, Ph.D., and his contact information; "UW" with links to University of Wisconsin - Madison, UW - Cooperative Extension, UW - Dairy Science, Understanding Dairy Markets, UW Dairy Network, and UW Center for Dairy Profitability; and "Dairy News" with a link to UW-Extension Dairy News. At the bottom, there is a "Dairy Management Tools" section with a "READ MORE" button.



Tools

The screenshot shows the "Tools" page on the DairyMGT.info website. The page has a navigation menu at the top with links for Home, Tools, Projects, Publications, Presentations, Links, and Find. Below the menu is a sub-menu with links for Feeding, Heifers, Reproduction, Production, Replacement, Financial, Price Risk, and Environment. The main content area is titled "Management Tools" and contains a paragraph about the collection of tools. Below this, there are three sections: "Feeding" with links to Grouping Strategies for Feeding Lactating Dairy Cattle, Colgen® Evaluator, Income Over Feed Supplement Cost, Dairy Extension Feed Cost Evaluator, Corn Feeding Strategies, Income Over Feed Cost, and Dairy Ration Feed Additive Break-Even Analysis; "Heifers" with links to Cost Benefit of Accelerated Liquid Feeding Program for Dairy Calves, Economic Value of Sired Semen Programs for Dairy Heifers, Heifer Replacement, and Heifer Break-Even; and "Reproduction" with links to Economic Value of Sired Semen Programs for Dairy Heifers, UW DairyRepro: A Reproductive Economic Analysis Tool, Estimating Timing of Pregnancy Based on Income Over Feed Cost, and Dairy Reproductive Economic Analysis. At the bottom, there is a "Production" section with several links.

Dairy Cattle Nutrition UW-Extension: <http://www.uwex.edu/ces/dairynutrition/>

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National Institute of Food and Agriculture



Thanks