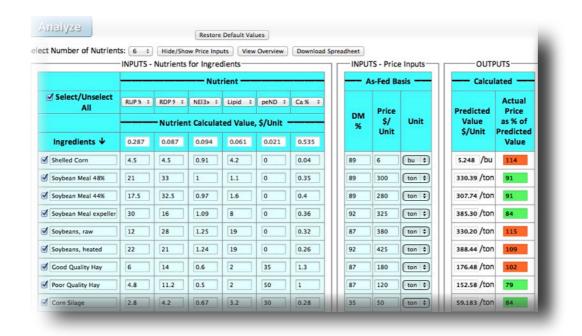# FeedVal 2012: Find the Actual Value of Feeds

Victor E. Cabrera
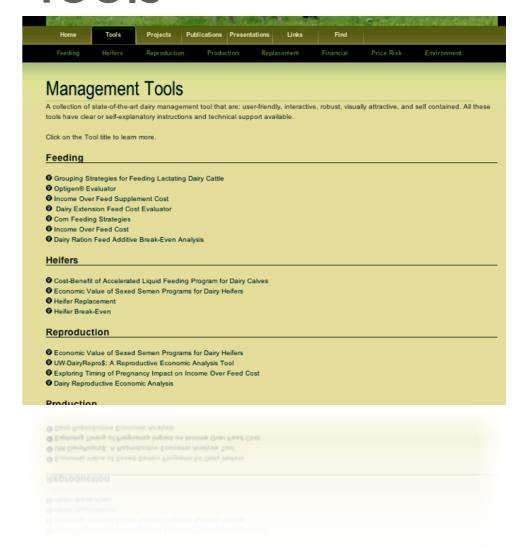
UW-Dairy Management

DairyMGT.info

Tools

FeedVal 2012

- Decision support tool to assess the <u>ACTUAL</u> value of dairy feed ingredients

- Help dairy producers, nutritionists, and consultants make economical decisions:

  - Purchasing feed ingredients

  - Using available feed ingredients

FeedVal 2012

- What it does?

  - Calculates the value of individual <u>NUTRIENTS</u>

  - Calculates the value of feed <u>INGREDIENTS</u>

  - Gives <u>RELATIVE</u> value of feed ingredients

FeedVal 2012

- How it does it?

  - Value of a feed ingredient is the <u>AGGREGATED</u> <u>value</u> of its nutrients

  - <u>Nutrient</u> <u>value</u> is the <u>average</u> nutrient value in selected feed ingredients

  - <u>Relative</u> <u>value</u> compares <u>market</u> against <u>predicted</u> feed value

FeedVal 2012

commands

Upload data as Excel file: [Choose File] No file chosen   [Upload]

[Analyze] ☑ Disregard negative Nutrient Calculated Values
Select Number of Nutrients: [6 ▼]   [Hide Price Inputs]   [Restore Default Values]   [Download Spreadsheet]

Ingredients

Nutrients

Prices

Results

INPUTS - Nutrients for Ingredients

☑ Ingredient	RUP % ▼	RDP % ▼	NEBW ▼	Fiber ▼	peNDF ▼	Ca % ▼
Ingredients ↓						
☑ Shelled Corn	4.5	4.5	0.91	4.2	0	0.04
☑ Soybean Meal 48%	21	33	1	1.1	0	0.35
☑ Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4
☑ Soybean Meal, expeller	30	16	1.09	8	0	0.36
☑ Soybeans, raw	12	28	1.25	19	0	0.32
☑ Soybeans, heated	22	21	1.24	19	0	0.26
☑ Good Quality Hay	6	14	0.6	2	35	1.3
☑ Poor Quality Hay	4.8	11.2	0.5	2	50	1
☑ Corn Silage	2.8	4.2	0.67	3.2	30	0.28
☑ Distillers Dried Grains	15	15	0.9	12	0	0.22
☑ High-Moisture Corn	3.6	5.4	0.95	4.2	0	0.03
☑ Tallow	0	0	2.06	100	0	0
☑ Blood Meal	76	19	1.06	1.2	0	0.3
☑ Urea	0	287	0	0	0	0
☑ Straw	4	1	0.45	0.37	75	0.31
☑ Soy Hulls	6	8	0.67	2.7	0	0.63
☑ Corn Gluten Feed	7.5	16.5	0.79	3.5	0	0.7
☑ Canola Meal, expeller	17	21	0.8	5.4	0	0.75
☑ Canola Meal, solvent	13.5	24.5	0.74	1.5	0	0.75
☑ Cottonseed Meal	20	25	0.78	1.9	0	0.2
☑ Wheat Middlings	4.5	14	0.76	4.3	0	0.16
☑ Whole Cottonseed	6	18	0.88	19.3	22	0.17
☑ Hi-Pro Distillers	22	22	0.9	4	0	0.22
☑ Wet Distillers	12	18	0.92	15	0	0.22
☑ Brewers Dried Grains	15	15	0.78	5.2	0	0.3
☑ Wet Brewers	12	18	0.78	5.2	0	0.35
☑ Malt Sprouts	9	21	0.68	2.3	0	0.24
☑ Sunflower Meal	8	21	0.63	1.4	0	0.48
☑ Beet Pulp	5	5	0.67	1.1	0	0.91
☑ Hominy	4	8	0.86	4.2	0	0.03
☑ Linseed Meal	16	16	0.72	1.7	0	0.4
☑ Molasses	2	4	0.8	0.2	0	1
☑ Corn Gluten Meal	42	23	1.08	2.5	0	0.06
☑ Wheat Bran	3.5	14	0.73	4.3	0	0.13
☑ Whey	1	9	0.85	0.7	0	1.37
☑ Oats	4.5	8.5	0.81	5.1	0	0.11
☑ Wheat	4.2	10	0.91	2.3	0	0.05
☑ Barley	3.4	9	0.85	2.2	0	0.06
☐ Extra Ingredient						
☐ Extra Ingredient						
☐ Extra Ingredient						

INPUTS - Price Inputs

As-Fed Basis — 2002 September ▼

DM %	Price $/Unit	Unit
89	8	bu ▼
89	550	ton ▼
89	500	ton ▼
92	525	ton ▼
87	583	ton ▼
92	600	ton ▼
87	250	ton ▼
87	150	ton ▼
35	60	ton ▼
89	270	ton ▼
70	200	ton ▼
99	25	cwt ▼
94	700	ton ▼
99	500	ton ▼
85	140	ton ▼
89	280	ton ▼
89	250	ton ▼
89	360	ton ▼
89	400	ton ▼
89	360	ton ▼
89	240	ton ▼
89	300	ton ▼
89	300	ton ▼
45	125	ton ▼
89	250	ton ▼
25	75	ton ▼
89	250	ton ▼
89	320	ton ▼
89	150	ton ▼
89	250	ton ▼
89	370	ton ▼
89	175	ton ▼
89	640	ton ▼
89	240	ton ▼
20	50	ton ▼
89	250	ton ▼
89	8.4	bu ▼
89	14.75	cwt ▼
		ton ▼
		ton ▼
		ton ▼

OUTPUTS

Calculated

Predicted Value, $/Unit	Actual Price as % of Predicted Value

Upload data as Excel file: [Choose File] No file chosen   [Upload]

[Analyze] ☑ Disregard negative Nutrient Calculated Values

Select Number of Nutrients: [6 ⇕] [Hide Price Inputs] [Restore Default Values] [Download Spreadheet]

─── INPUTS - Nutrients for Ingredients ───   ── INPUTS - Price Inputs ──   ─ OUTPUTS ─

	── Nutrient ──						── As-Fed Basis ──			── Calculated ──	
☑ **Ingredient**	RUP % ⇕	RDP % ⇕	NEl3x M ⇕	Lipid % ⇕	peNDF ⇕	Ca % ⇕		2012 Septemb ⇕			
	── Nutrient Calculated Value, $/Unit DM ──						**DM %**	**Price $/Unit**	**Unit**	**Predicted Value, $/Unit**	**Actual Price as % of Predicted Value**
Ingredients ↓											
☑ Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	89	8	bu ⇕		
☑ Soybean Meal 48%	21	33	1	1.1	0	0.35	89	550	ton ⇕		
☑ Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	89	500	ton ⇕		
☑ Soybean Meal, expeller	30	16	1.09	8	0	0.36	92	525	ton ⇕		
☑ Soybeans, raw	12	28	1.25	19	0	0.32	87	583	ton ⇕		
☑ Soybeans, heated	22	21	1.24	19	0	0.26	92	600	ton ⇕		
☑ Good Quality Hay	6	14	0.6	2	35	1.3	87	250	ton ⇕		
☑ Poor Quality Hay	4.8	11.2	0.5	2	50	1	87	150	ton ⇕		
☑ Corn Silage	2.8	4.2	0.67	3.2	30	0.28	35	60	ton ⇕		
☑ Distillers Dried Grains	15	15	0.9	12	0	0.22	89	270	ton ⇕		
☑ High-Moisture Corn	3.6	5.4	0.95	4.2	0	0.03	70	200	ton ⇕		
☑ Tallow	0	0	2.06	100	0	0	99	25	cwt ⇕		
☑ Blood Meal	76	19	1.06	1.2	0	0.3	94	700	ton ⇕		
☑ Urea	0	287	0	0	0	0	99	500	ton ⇕		
☑ Straw	4	1	0.45	0.37	75	0.31	85	140	ton ⇕		

2 Select number of nutrients

Upload data as Excel file: No file chosen — Upload

Analyze — ☑ Disregard ne... nt Calculated Values

Select Number of Nutrient... — Hide Price Inputs — Restore Default Values — Download Spreadheet

Dropdown: 2 3 4 5 ✓6 7 8 9 10 11 12 13

INPUTS - Nutrients for Ingredients | INPUTS - Price Inputs | OUTPUTS

Ingredient	...S	RDP %	NEl3x M	Lipid %	peNDF	Ca %	DM %	Price $/Unit	Unit	Predicted Value, $/Unit	Actual Price as % of Predicted Value
Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	89	8	bu		
Soybean Meal 48%	21	33	1	1.1	0	0.35	89	550	ton		
Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	89	500	ton		
Soybean Meal, expeller	30	16	1.09	8	0	0.36	92	525	ton		
Soybeans, raw	12	28	1.25	19	0	0.32	87	583	ton		
Soybeans, heated	22	21	1.24	19	0	0.26	92	600	ton		
Good Quality Hay	6	14	0.6	2	35	1.3	87	250	ton		
Poor Quality Hay	4.8	11.2	0.5	2	50	1	87	150	ton		
Corn Silage	2.8	4.2	0.67	3.2	30	0.28	35	60	ton		
Distillers Dried Grains	15	15	0.9	12	0	0.22	89	270	ton		
High-Moisture Corn	3.6	5.4	0.95	4.2	0	0.03	70	200	ton		
Tallow	0	0	2.06	100	0	0	99	25	cwt		
Blood Meal	76	19	1.06	1.2	0	0.3	94	700	ton		
Urea	0	287	0	0	0	0	99	500	ton		
Straw	4	1	0.45	0.37	75	0.31	85	140	ton		

Nutrient Calculated Value, $/Unit DM

As-Fed Basis — 2012 Septemb

Calculated

3 Select combination of nutrients

Upload data as Excel file: [Choose File] No file chosen   [Upload]

[Analyze] ☑ Disregard negative Nutrient Calculated Values
Select Number of Nutrients: [6 ⇕] [Hide Price Inputs] [Restore Default Values] [Download Spreadheet]

INPUTS - Nutrients for Ingredients — INPUTS - Price Inputs — OUTPUTS

— Nutrient — — As-Fed Basis — — Calculated —

Dropdown menu:
✓ RUP %
RDP %
NEl3x Mcal/lb
Lipid %
peNDF %
Ca %
Phos %
Lys %
Met %
NDF %
dNDF
Starch
Sugars
CP %

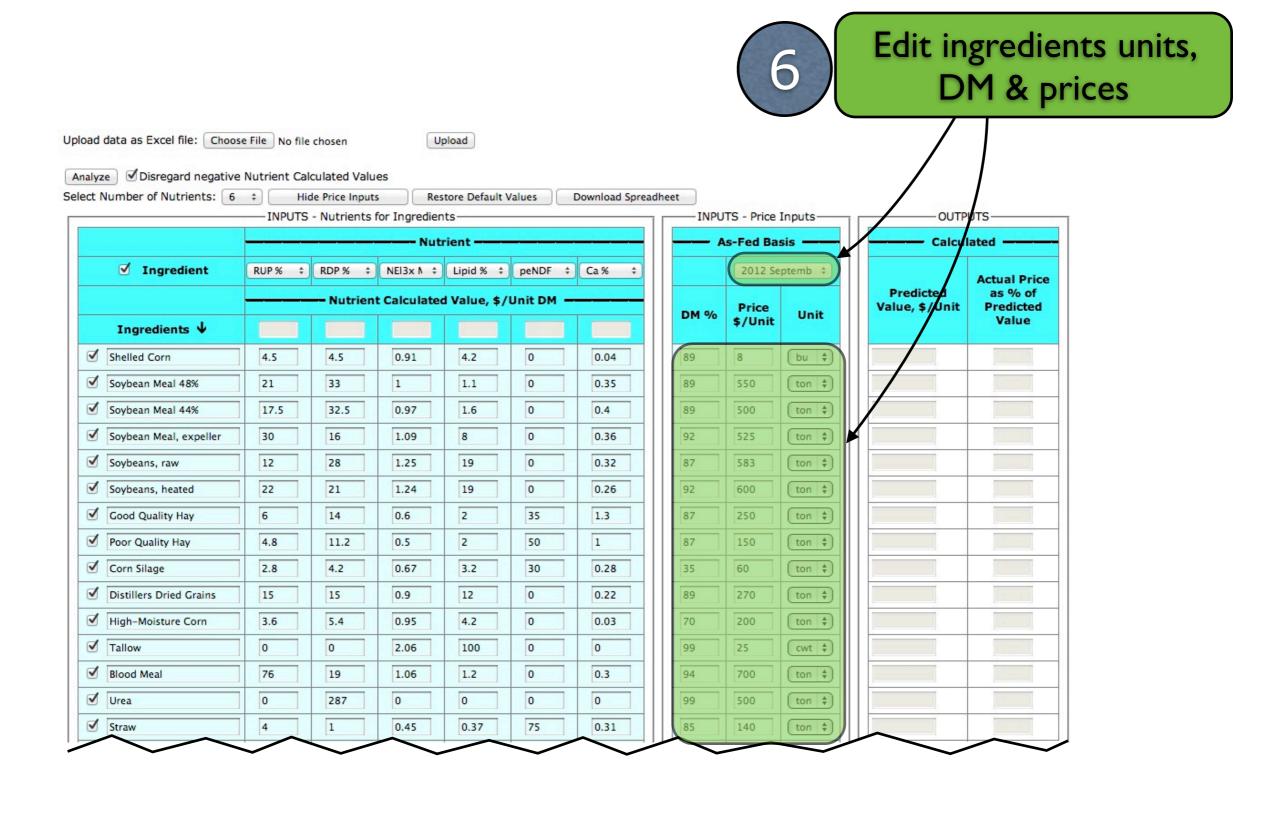| Ingredient			NEl3x M	Lipid %	peNDF	Ca %	2012 Septemb			Predicted Value, $/Unit	Actual Price as % of Predicted Value
Ingredients ↓			Calculated Value, $/Unit DM				DM %	Price $/Unit	Unit		
☑ Shelled Corn			0.91	4.2	0	0.04	89	8	bu		
☑ Soybean Meal 48%			1	1.1	0	0.35	89	550	ton		
☑ Soybean Meal 44%			0.97	1.6	0	0.4	89	500	ton		
☑ Soybean Meal, expelle			1.09	8	0	0.36	92	525	ton		
☑ Soybeans, raw			1.25	19	0	0.32	87	583	ton		
☑ Soybeans, heated			1.24	19	0	0.26	92	600	ton		
☑ Good Quality Hay			0.6	2	35	1.3	87	250	ton		
☑ Poor Quality Hay			0.5	2	50	1	87	150	ton		
☑ Corn Silage	2.8	4.2	0.67	3.2	30	0.28	35	60	ton		
☑ Distillers Dried Grains	15	15	0.9	12	0	0.22	89	270	ton		
☑ High-Moisture Corn	3.6	5.4	0.95	4.2	0	0.03	70	200	ton		
☑ Tallow	0	0	2.06	100	0	0	99	25	cwt		
☑ Blood Meal	76	19	1.06	1.2	0	0.3	94	700	ton		
☑ Urea	0	287	0	0	0	0	99	500	ton		
☑ Straw	4	1	0.45	0.37	75	0.31	85	140	ton		

4 Select ingredients

Upload data as Excel file: [Choose File] No file chosen   [Upload]

[Analyze] ☑ Disregard negative Nutrient Calculated Values
Select Number of Nutrients: [6 ⇕] [Hide Price Inputs] [Restore Default Values] [Download Spreadsheet]

☑ Ingredient	RUP % ⇕	RDP % ⇕	NEl3x M ⇕	Lipid % ⇕	peNDF ⇕	Ca % ⇕	DM %	Price $/Unit	Unit	Predicted Value, $/Unit	Actual Price as % of Predicted Value
Ingredients ↓											
☑ Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	89	8	bu ⇕		
☑ Soybean Meal 48%	21	33	1	1.1	0	0.35	89	550	ton ⇕		
☑ Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	89	500	ton ⇕		
☑ Soybean Meal, expeller	30	16	1.09	8	0	0.36	92	525	ton ⇕		
☑ Soybeans, raw	12	28	1.25	19	0	0.32	87	583	ton ⇕		
☑ Soybeans, heated	22	21	1.24	19	0	0.26	92	600	ton ⇕		
☑ Good Quality Hay	6	14	0.6	2	35	1.3	87	250	ton ⇕		
☑ Poor Quality Hay	4.8	11.2	0.5	2	50	1	87	150	ton ⇕		
☑ Corn Silage	2.8	4.2	0.67	3.2	30	0.28	35	60	ton ⇕		
☑ Distillers Dried Grains	15	15	0.9	12	0	0.22	89	270	ton ⇕		
☑ High-Moisture Corn	3.6	5.4	0.95	4.2	0	0.03	70	200	ton ⇕		
☑ Tallow	0	0	2.06	100	0	0	99	25	cwt ⇕		
☑ Blood Meal	76	19	1.06	1.2	0	0.3	94	700	ton ⇕		
☑ Urea	0	287	0	0	0	0	99	500	ton ⇕		
☑ Straw	4	1	0.45	0.37	75	0.31	85	140	ton ⇕		

INPUTS - Nutrients for Ingredients — Nutrient — Nutrient Calculated Value, $/Unit DM
INPUTS - Price Inputs — As-Fed Basis — 2012 September ⇕
OUTPUTS — Calculated

5 Edit ingredients & their nutrient composition

Upload data as Excel file: [Choose File] No file chosen   [Upload]

[Analyze] ☑ Disregard negative Nutrient Calculated Values

Select Number of Nutrients: [6 ⇕] [Hide Price Inputs] [Restore Default Values] [Download Spreadsheet]

INPUTS - Nutrients for Ingredients | INPUTS - Price Inputs | OUTPUTS

☑ Ingredient	RUP %	RDP %	NEl3x N	Lipid %	peNDF	Ca %	DM %	Price $/Unit	Unit	Predicted Value, $/Unit	Actual Price as % of Predicted Value
Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	89	8	bu		
Soybean Meal 48%	21	33	1	1.1	0	0.35	89	550	ton		
Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	89	500	ton		
Soybean Meal, expeller	30	16	1.09	8	0	0.36	92	525	ton		
Soybeans, raw	12	28	1.25	19	0	0.32	87	583	ton		
Soybeans, heated	22	21	1.24	19	0	0.26	92	600	ton		
Good Quality Hay	6	14	0.6	2	35	1.3	87	250	ton		
Poor Quality Hay	4.8	11.2	0.5	2	50	1	87	150	ton		
Corn Silage	2.8	4.2	0.67	3.2	30	0.28	35	60	ton		
Distillers Dried Grains	15	15	0.9	12	0	0.22	89	270	ton		
High-Moisture Corn	3.6	5.4	0.95	4.2	0	0.03	70	200	ton		
Tallow	0	0	2.06	100	0	0	99	25	cwt		
Blood Meal	76	19	1.06	1.2	0	0.3	94	700	ton		
Urea	0	287	0	0	0	0	99	500	ton		
Straw	4	1	0.45	0.37	75	0.31	85	140	ton		

Nutrient — Nutrient Calculated Value, $/Unit DM

As-Fed Basis — 2012 Septemb

Calculated

Edit ingredients units, DM & prices

Upload data as Excel file: [Choose File] No file chosen   [Upload]

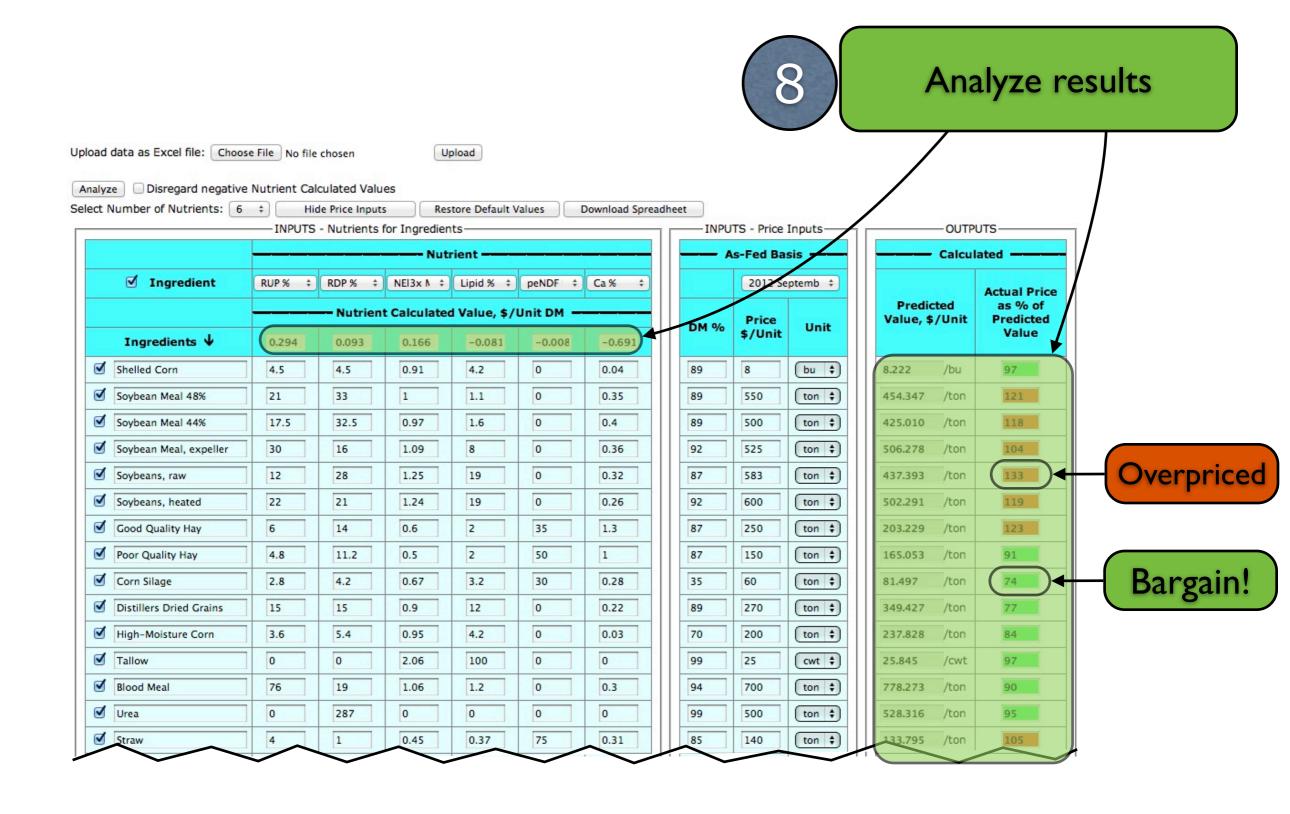[Analyze] ☑ Disregard negative Nutrient Calculated Values

Select Number of Nutrients: [6 ⇕] [Hide Price Inputs] [Restore Default Values] [Download Spreadsheet]

INPUTS - Nutrients for Ingredients | INPUTS - Price Inputs | OUTPUTS

☑ **Ingredient**	RUP % ⇕	RDP % ⇕	NEl3x N ⇕	Lipid % ⇕	peNDF ⇕	Ca % ⇕	DM %	Price $/Unit	Unit	Predicted Value, $/Unit	Actual Price as % of Predicted Value
Ingredients ↓											
Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	89	8	bu ⇕		
Soybean Meal 48%	21	33	1	1.1	0	0.35	89	550	ton ⇕		
Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	89	500	ton ⇕		
Soybean Meal, expeller	30	16	1.09	8	0	0.36	92	525	ton ⇕		
Soybeans, raw	12	28	1.25	19	0	0.32	87	583	ton ⇕		
Soybeans, heated	22	21	1.24	19	0	0.26	92	600	ton ⇕		
Good Quality Hay	6	14	0.6	2	35	1.3	87	250	ton ⇕		
Poor Quality Hay	4.8	11.2	0.5	2	50	1	87	150	ton ⇕		
Corn Silage	2.8	4.2	0.67	3.2	30	0.28	35	60	ton ⇕		
Distillers Dried Grains	15	15	0.9	12	0	0.22	89	270	ton ⇕		
High-Moisture Corn	3.6	5.4	0.95	4.2	0	0.03	70	200	ton ⇕		
Tallow	0	0	2.06	100	0	0	99	25	cwt ⇕		
Blood Meal	76	19	1.06	1.2	0	0.3	94	700	ton ⇕		
Urea	0	287	0	0	0	0	99	500	ton ⇕		
Straw	4	1	0.45	0.37	75	0.31	85	140	ton ⇕		

Nutrient

As-Fed Basis [2012 Septemb ⇕]

Calculated

Nutrient Calculated Value, $/Unit DM

Upload data as Excel file: [Choose File] No file chosen   [Upload]

[Analyze] ☐ Disregard negative Nutrient Calculated Values

Select Number of Nutrients: [6 ⬍] [Hide Price Inputs] [Restore Default Values] [Download Spreadsheet]

	INPUTS - Nutrients for Ingredients							INPUTS - Price Inputs			OUTPUTS	
	Nutrient							**As-Fed Basis**			**Calculated**	
☑ **Ingredient**	RUP % ⬍	RDP % ⬍	NEl3x M ⬍	Lipid % ⬍	peNDF ⬍	Ca % ⬍		2012 Septemb ⬍				**Actual Price as % of Predicted Value**
	Nutrient Calculated Value, $/Unit DM							**DM %**	**Price $/Unit**	**Unit**	**Predicted Value, $/Unit**	
Ingredients ↓	0.294	0.093	0.166	−0.081	−0.008	−0.691						
☑ Shelled Corn	4.5	4.5	0.91	4.2	0	0.04		89	8	bu ⬍	8.222 /bu	97
☑ Soybean Meal 48%	21	33	1	1.1	0	0.35		89	550	ton ⬍	454.347 /ton	121
☑ Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4		89	500	ton ⬍	425.010 /ton	118
☑ Soybean Meal, expeller	30	16	1.09	8	0	0.36		92	525	ton ⬍	506.278 /ton	104
☑ Soybeans, raw	12	28	1.25	19	0	0.32		87	583	ton ⬍	437.393 /ton	133
☑ Soybeans, heated	22	21	1.24	19	0	0.26		92	600	ton ⬍	502.291 /ton	119
☑ Good Quality Hay	6	14	0.6	2	35	1.3		87	250	ton ⬍	203.229 /ton	123
☑ Poor Quality Hay	4.8	11.2	0.5	2	50	1		87	150	ton ⬍	165.053 /ton	91
☑ Corn Silage	2.8	4.2	0.67	3.2	30	0.28		35	60	ton ⬍	81.497 /ton	74
☑ Distillers Dried Grains	15	15	0.9	12	0	0.22		89	270	ton ⬍	349.427 /ton	77
☑ High-Moisture Corn	3.6	5.4	0.95	4.2	0	0.03		70	200	ton ⬍	237.828 /ton	84
☑ Tallow	0	0	2.06	100	0	0		99	25	cwt ⬍	25.845 /cwt	97
☑ Blood Meal	76	19	1.06	1.2	0	0.3		94	700	ton ⬍	778.273 /ton	90
☑ Urea	0	287	0	0	0	0		99	500	ton ⬍	528.316 /ton	95
☑ Straw	4	1	0.45	0.37	75	0.31		85	140	ton ⬍	133.795 /ton	105

8 Analyze results

Upload data as Excel file: [Choose File] No file chosen   [Upload]

[Analyze] ☐ Disregard negative Nutrient Calculated Values

Select Number of Nutrients: [6 ▾]   [Hide Price Inputs]   [Restore Default Values]   [Download Spreadheet]

		INPUTS - Nutrients for Ingredients						INPUTS - Price Inputs			OUTPUTS	
		Nutrient						**As-Fed Basis**			**Calculated**		
	☑ **Ingredient**	RUP % ▾	RDP % ▾	NEl3x N ▾	Lipid % ▾	peNDF ▾	Ca % ▾		2012 Septemb ▾				
		Nutrient Calculated Value, $/Unit DM						DM %	Price $/Unit	Unit	**Predicted Value, $/Unit**	**Actual Price as % of Predicted Value**	
	Ingredients ↓	0.294	0.093	0.166	−0.081	−0.008	−0.691						
☑	Shelled Corn	4.5	4.5	0.91	4.2	0	0.04	89	8	bu ▾	8.222 /bu	97	
☑	Soybean Meal 48%	21	33	1	1.1	0	0.35	89	550	ton ▾	454.347 /ton	121	
☑	Soybean Meal 44%	17.5	32.5	0.97	1.6	0	0.4	89	500	ton ▾	425.010 /ton	118	
☑	Soybean Meal, expeller	30	16	1.09	8	0	0.36	92	525	ton ▾	506.278 /ton	104	
☑	Soybeans, raw	12	28	1.25	19	0	0.32	87	583	ton ▾	437.393 /ton	133	
☑	Soybeans, heated	22	21	1.24	19	0	0.26	92	600	ton ▾	502.291 /ton	119	
☑	Good Quality Hay	6	14	0.6	2	35	1.3	87	250	ton ▾	203.229 /ton	123	
☑	Poor Quality Hay	4.8	11.2	0.5	2	50	1	87	150	ton ▾	165.053 /ton	91	
☑	Corn Silage	2.8	4.2	0.67	3.2	30	0.28	35	60	ton ▾	81.497 /ton	74	
☑	Distillers Dried Grains	15	15	0.9	12	0	0.22	89	270	ton ▾	349.427 /ton	77	
☑	High-Moisture Corn	3.6	5.4	0.95	4.2	0	0.03	70	200	ton ▾	237.828 /ton	84	
☑	Tallow	0	0	2.06	100	0	0	99	25	cwt ▾	25.845 /cwt	97	
☑	Blood Meal	76	19	1.06	1.2	0	0.3	94	700	ton ▾	778.273 /ton	90	
☑	Urea	0	287	0	0	0	0	99	500	ton ▾	528.316 /ton	95	
☑	Straw	4	1	0.45	0.37	75	0.31	85	140	ton ▾	133.795 /ton	105	

Overpriced → (Soybeans, raw: 133)

Bargain! → (Corn Silage: 74)

Upload data as Excel file: [Choose File] No file chosen   [Upload]

[Analyze] ☑ Disregard negative Nutrient Calculated Values

Select Number of Nutrients: [3 ÷] [Hide Price Inputs] [Restore Default Values] [Download Spreadheet]

INPUTS - Nutrients for Ingredients · INPUTS - Price Inputs · OUTPUTS

☑ Ingredient	Nutrient			As-Fed Basis			Calculated	
	RUP % [÷]	RDP % [÷]	NEl3x N [÷]	2012 Septemb [÷]			Predicted Value, $/Unit	Actual Price as % of Predicted Value
Ingredients ↓	Nutrient Calculated Value, $/Unit DM			DM %	Price $/Unit	Unit		
	0.329	0.095	0.148					
☑ Shelled Corn	4.5	4.5	0.91	89	8	bu [÷]	7.672 /bu	104
☑ Soybean Meal 48%	21	33	1	89	550	ton [÷]	442.427 /ton	124
☑ Soybean Meal 44%	17.5	32.5	0.97	89	500	ton [÷]	413.153 /ton	121
☑ Soybean Meal, expeller	30	16	1.09	92	525	ton [÷]	506.849 /ton	104
☑ Soybeans, raw	12	28	1.25	87	583	ton [÷]	437.145 /ton	133
☑ Soybeans, heated	22	21	1.24	92	600	ton [÷]	507.966 /ton	118
☑ Good Quality Hay	6	14	0.6	87	250	ton [÷]	212.126 /ton	118
☑ Poor Quality Hay	4.8	11.2	0.5	87	150	ton [÷]	174.858 /ton	86
☑ Corn Silage	2.8	4.2	0.67	35	60	ton [÷]	78.736 /ton	76
☑ Distillers Dried Grains	15	15	0.9	89	270	ton [÷]	350.582 /ton	77
☑ High-Moisture Corn	3.6	5.4	0.95	70	200	ton [÷]	220.840 /ton	91
☑ Tallow	0	0	2.06	99	25	cwt [÷]	30.222 /cwt	83
☑ Blood Meal	76	19	1.06	94	700	ton [÷]	799.669 /ton	88
☑ Urea	0	287	0	99	500	ton [÷]	537.260 /ton	93
☑ Straw	4	1	0.45	85	140	ton [÷]	137.369 /ton	102

10 Analyze results again

Upload data as Excel file: [Choose File] No file chosen   [Upload]

[Analyze] ☑ Disregard negative Nutrient Calculated Values

Select Number of Nutrients: [3 ÷] [Hide Price Inputs] [Restore Default Values] [Download Spreadheet]

	INPUTS - Nutrients for Ingredients			INPUTS - Price Inputs			OUTPUTS	
	———— Nutrient ————			**———— As-Fed Basis ————**			**Calculated**	
☑ **Ingredient**	RUP % ÷	RDP % ÷	NEl3x N ÷	2012 Septemb ÷			**Predicted Value, $/Unit**	**Actual Price as % of Predicted Value**
	Nutrient Calculated Value, $/Unit DM			**DM %**	**Price $/Unit**	**Unit**		
Ingredients ↓	0.329	0.095	0.148					
☑ Shelled Corn	4.5	4.5	0.91	89	8	bu ÷	7.672 /bu	104
☑ Soybean Meal 48%	21	33	1	89	550	ton ÷	442.427 /ton	124
☑ Soybean Meal 44%	17.5	32.5	0.97	89	500	ton ÷	413.153 /ton	121
☑ Soybean Meal, expeller	30	16	1.09	92	525	ton ÷	506.849 /ton	104
☑ Soybeans, raw	12	28	1.25	87	583	ton ÷	437.145 /ton	133
☑ Soybeans, heated	22	21	1.24	92	600	ton ÷	507.966 /ton	118
☑ Good Quality Hay	6	14	0.6	87	250	ton ÷	212.126 /ton	118
☑ Poor Quality Hay	4.8	11.2	0.5	87	150	ton ÷	174.858 /ton	86
☑ Corn Silage	2.8	4.2	0.67	35	60	ton ÷	78.736 /ton	76
☑ Distillers Dried Grains	15	15	0.9	89	270	ton ÷	350.582 /ton	77
☑ High-Moisture Corn	3.6	5.4	0.95	70	200	ton ÷	220.840 /ton	91
☑ Tallow	0	0	2.06	99	25	cwt ÷	30.222 /cwt	83
☑ Blood Meal	76	19	1.06	94	700	ton ÷	799.669 /ton	88
☑ Urea	0	287	0	99	500	ton ÷	537.260 /ton	93
☑ Straw	4	1	0.45	85	140	ton ÷	137.369 /ton	102

Still Overpriced (→ 133)

Still Bargain! (→ 76)

Download Spreadsheet

Upload data as Exce...

Analyze ☑ Disreg...

Select Number of N...

FeedValAnalysis (3).xls

Home | Layout | Tables | Charts | SmartArt | Formulas | Data | Review

G21 | ton

	Ingredient	RUP %	RDP %	NEl3x Mcal/lb	DM %	Price $/Unit	Unit	Predicted Value, $/Unit	Actual Price as % of Predicted Value
2	Shelled Corn	4.5	4.5	0.91	89	8	bu	7.672	104
3	Soybean Meal 4	21	33	1	89	550	ton	442.427	124
4	Soybean Meal 4	17.5	32.5	0.97	89	500	ton	413.153	121
5	Soybean Meal,	30	16	1.09	92	525	ton	506.849	104
6	Soybeans, raw	12	28	1.25	87	583	ton	437.145	133
7	Soybeans, heat	22	21	1.24	92	600	ton	507.966	118
8	Good Quality H	6	14	0.6	87	250	ton	212.126	118
9	Poor Quality Ha	4.8	11.2	0.5	87	150	ton	174.858	86
10	Corn Silage	2.8	4.2	0.67	35	60	ton	78.736	76
11	Distillers Dried	15	15	0.9	89	270	ton	350.582	77
12	High-Moisture (	3.6	5.4	0.95	70	200	ton	220.84	91
13	Tallow	0	0	2.06	99	25	cwt	30.222	83
14	Blood Meal	76	19	1.06	94	700	ton	799.669	88
15	Urea	0	287	0	99	500	ton	537.26	93
16	Straw	4	1	0.45	85	140	ton	137.369	102
17	Soy Hulls	6	8	0.67	89	280	ton	225.37	124
18	Corn Gluten Fe	7.5	16.5	0.79	89	250	ton	280.121	89
19	Canola Meal, e>	17	21	0.8	89	360	ton	346.027	104
20	Canola Meal, so	13.5	24.5	0.74	89	400	ton	315.571	127
21	Cottonseed Me	20	25	0.78	89	360	ton	365.07	99
22	Wheat Middling	4.5	14	0.76	89	240	ton	250.413	96
23	Whole Cottons(	6	18	0.88	89	300	ton	297.592	101
24	Hi-Pro Distillers	22	22	0.9	89	300	ton	403.4	74
25	Wet Distillers	12	18	0.92	45	125	ton	173.588	72
26	Brewers Dried (	15	15	0.78	89	250	ton	318.929	78
27	Wet Brewers	12	18	0.78	25	75	ton	86.064	87
28	Malt Sprouts	9	21	0.68	89	250	ton	267.473	93
29	Sunflower Mea	8	21	0.63	89	320	ton	248.421	129
30	Beet Pulp	5	5	0.67	89	150	ton	214.458	70
31	Hominy	4	8	0.86	89	250	ton	263.762	95
32	Linseed Meal	16	16	0.72	89	370	ton	310.647	119
33	Molasses	2	4	0.8	89	175	ton	229.479	76
34	Corn Gluten Me	42	23	1.08	89	640	ton	569.814	112
35	Wheat Bran	3.5	14	0.73	89	240	ton	236.637	101
36	Whey	1	9	0.85	20	50	ton	55.106	91
37	Oats	4.5	8.5	0.81	89	250	ton	254.346	98
38	Wheat	4.2	10	0.91	89	8.4	bu	7.882	107
39	Barley	3.4	9	0.85	89	14.75	cwt	12.964	114

FeedVal Analysis

Normal View | Ready

OUTPUTS

Calculated

...cted $/Unit	Actual Price as % of Predicted Value
/bu	104
/ton	124
/ton	121
/ton	104
/ton	133
/ton	118
/ton	118
/ton	86
/ton	76
/ton	77
/ton	91
/cwt	83
/ton	88
/ton	93
/ton	102

Ingre...

Ingredien...

☑ Shelled Corn
☑ Soybean Mea
☑ Soybean Mea
☑ Soybean Mea
☑ Soybeans, ra
☑ Soybeans, he
☑ Good Quality
☑ Poor Quality
☑ Corn Silage
☑ Distillers Dri
☑ High-Moistu
☑ Tallow
☑ Blood Meal
☑ Urea
☑ Straw

October Prices (negatives in)

Ingredient	RUP %	RDP %	NEl3x Mcal/lb	Lipid %	peNDF %	Ca %	Phos %	Lys %	Met %	NDF %	dNDF	Starch	Sugars	DM %	Price $/Unit	Unit	Predicted Value, $/Unit	Actual Price as % of Predicted Value
Wet Distillers	12	18	0.92	15	0	0.22	0.83	0.67	0.55	38.8	19	2.5	2.5	45	113.67	ton	165.238	69
Hi-Pro Distillers	22	22	0.9	4	0	0.22	0.45	0.99	0.8	25	12	2	2	89	300	ton	415.681	72
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	76.612	78
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	237.48	84
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	345	ton	394.546	87
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	180	ton	204.636	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	275	ton	312.328	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	338.33	ton	383.397	88
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	441.2	ton	497.11	89
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	279.142	90
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	491.2	ton	538.38	91
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	82.601	91
Molasses	2	4	0.8	0.2	0	1	0.1	0.06	0.01	0.1	0.1	5	80	89	160	ton	174.947	91
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	7.92	bu	8.528	93
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	252	ton	270.679	93
Whole Cottonseed	6	18	0.88	19.3	22	0.17	0.6	1.04	0.41	50.3	20	1	1	89	291.75	ton	308.12	95
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	466.2	ton	481.102	97
Tallow	0	0	2.06	100	0	0	0	0	0	0	0	0	0	99	25	cwt	25.628	98
Blood Meal	76	19	1.06	1.2	0	0.3	0.3	8.5	1.11	0	0	0	0	94	1000	ton	1010.598	99
Oats	4.5	8.5	0.81	5.1	0	0.11	0.4	0.54	0.22	30	12	47	2.5	89	243.75	ton	242.646	100
Good Quality Hay	6	14	0.6	2	35	1.3	0.3	0.94	0.3	40	20	2.5	2.5	87	248.67	ton	245.44	101
Urea	0	287	0	0	0	0	0	0	0	0	0	0	0	99	500	ton	495.007	101
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	238.166	101
Wheat	4.2	10	0.91	2.3	0	0.05	0.43	0.22	0.21	13.4	6.7	67	2	89	8.49	bu	8.184	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	377.523	106
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	226.321	106
Whey	1	9	0.85	0.7	0	1.37	1.04	0.74	0.14	0	0	4	70	20	58.4	ton	55.103	106
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	230.241	109
Soybeans, raw	12	28	1.25	19	0	0.32	0.6	2.52	0.58	19.5	10	10	2	87	543	ton	486.538	112
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	812.14	ton	725.362	112
Barley	3.4	9	0.85	2.2	0	0.06	0.39	0.45	0.21	20.8	10.4	60	2	89	15.5	cwt	13.744	113
Sunflower Meal	8	21	0.63	1.4	0	0.48	1	1.07	0.69	40.3	12	6	1.5	89	365	ton	310.978	117
Linseed Meal	16	16	0.72	1.7	0	0.4	0.83	1.18	0.56	36.1	11	4	1.5	89	326.67	ton	273.569	119
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	200	ton	166.963	120
Hominy	4	8	0.86	4.2	0	0.03	0.65	0.44	0.21	21.1	11	31	1.5	89	245	ton	202.997	121
Soybeans, heated	22	21	1.24	19	0	0.26	0.64	2.71	0.62	22.1	8	10	2	92	700	ton	525.188	133
Straw	4	1	0.45	0.37	75	0.31	0.3	0.16	0.06	73	33	1	1	85	140	ton	103.905	135
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	107.256	140

Bargain — Overpriced

Best — OK — Worst

October Prices (negatives off)

Ingredient	RUP %	RDP %	Lipid %	peNDF %	Ca %	Lys %	Met %	Starch	Sugars	DM %	Price $/Unit	Unit	Predicted Value, $/Unit	Actual Price as % of Predicted Value
Wet Distillers	12	18	15	0	0.22	0.67	0.55	2.5	2.5	45	113.67	ton	168.917	67
Hi-Pro Distillers	22	22	4	0	0.22	0.99	0.8	2	2	89	300	ton	406.606	74
Brewers Dried Grains	15	15	5.2	0	0.3	1.22	0.51	3.8	2.5	89	250	ton	309.547	81
Corn Silage	2.8	4.2	3.2	30	0.28	0.18	0.11	30	2.5	35	60	ton	71.939	83
Canola Meal, expeller	17	21	5.4	0	0.75	2.14	0.71	1.5	1.5	89	345	ton	415.699	83
Cottonseed Meal	20	25	1.9	0	0.2	1.86	0.72	1.5	1.5	89	338.33	ton	405.562	83
Distillers Dried Grains	15	15	12	0	0.22	0.67	0.55	2.5	2.5	89	275	ton	325.729	84
High-Moisture Corn	3.6	5.4	4.2	0	0.03	0.25	0.19	72	1.5	70	200	ton	230.966	87
Wet Brewers	12	18	5.2	0	0.35	1.22	0.51	3.8	2.5	25	75	ton	85.511	88
Molasses	2	4	0.2	0	1	0.06	0.01	5	80	89	160	ton	182.256	88
Poor Quality Hay	4.8	11.2	2	50	1	0.75	0.24	2.5	2.5	87	180	ton	202.669	89
Whole Cottonseed	6	18	19.3	22	0.17	1.04	0.41	1	1	89	291.75	ton	324.031	90
Corn Gluten Feed	7.5	16.5	3.5	0	0.7	0.66	0.39	23.3	2.5	89	252	ton	273.212	92
Oats	4.5	8.5	5.1	0	0.11	0.54	0.22	47	2.5	89	243.75	ton	263.578	92
Soybean Meal, expeller	30	16	8	0	0.36	2.89	0.66	2.7	1.5	92	466.2	ton	497.386	94
Shelled Corn	4.5	4.5	4.2	0	0.04	0.25	0.19	72	2	89	7.92	bu	8.293	95
Soybean Meal 44%	17.5	32.5	1.6	0	0.4	3.15	0.72	2.7	1.5	89	441.2	ton	464.443	95
Wheat Middlings	4.5	14	4.3	0	0.16	0.67	0.3	29	2.5	89	240	ton	250.536	96
Malt Sprouts	9	21	2.3	0	0.24	1.31	0.4	3.8	2.5	89	250	ton	257.53	97
Soybean Meal 48%	21	33	1.1	0	0.35	3.4	0.78	2.7	1.5	89	491.2	ton	502.023	98
Tallow	0	0	100	0	0	0	0	0	0	99	25	cwt	25.279	99
Blood Meal	76	19	1.2	0	0.3	8.5	1.11	0	0	94	1000	ton	1012.419	99
Wheat Bran	3.5	14	4.3	0	0.13	0.71	0.28	29	2.5	89	240	ton	243.004	99
Urea	0	287	0	0	0	0	0	0	0	99	500	ton	493.962	101
Canola Meal, solvent	13.5	24.5	1.5	0	0.75	2.14	0.71	1.5	1.5	89	400	ton	391.81	102
Linseed Meal	16	16	1.7	0	0.4	1.18	0.56	4	1.5	89	326.67	ton	310.283	105
Wheat	4.2	10	2.3	0	0.05	0.22	0.21	67	2	89	8.49	bu	8.028	106
Sunflower Meal	8	21	1.4	0	0.48	1.07	0.69	6	1.5	89	365	ton	328.651	111
Whey	1	9	0.7	0	1.37	0.74	0.14	4	70	20	58.4	ton	52.748	111
Good Quality Hay	6	14	2	35	1.3	0.94	0.3	2.5	2.5	87	248.67	ton	221.462	112
Barley	3.4	9	2.2	0	0.06	0.45	0.21	60	2	89	15.5	cwt	13.674	113
Soybeans, raw	12	28	19	0	0.32	2.52	0.58	10	2	87	543	ton	460.882	118
Corn Gluten Meal	42	23	2.5	0	0.06	1.1	1.54	2.5	1.5	89	812.14	ton	685.828	118
Hominy	4	8	4.2	0	0.03	0.44	0.21	31	1.5	89	245	ton	206.578	119
Straw	4	1	0.37	75	0.31	0.16	0.06	1	1	85	140	ton	116.2	120
Soybeans, heated	22	21	19	0	0.26	2.71	0.62	10	2	92	700	ton	530.232	132
Soy Hulls	6	8	2.7	0	0.63	0.88	0.16	5.3	1.5	89	200	ton	145.439	138
Beet Pulp	5	5	1.1	0	0.91	0.35	0.13	0.5	10	89	150	ton	103.772	145

Bargain — Overpriced (left side labels)

Best — OK — Worst (right side labels)

Drought Stressed Corn Silage

INPUTS - Nutrients for Ingredients

Ingredient	Nutrient	
☐ Ingredient	CP % ⇕	TDN % ⇕
	Nutrient Calculated Value, $/Unit DM	
Ingredients ↓		
☑ Shelled Corn	9.4	89
☑ Soybean Meal 48%	53.8	81
☑ Drought Strsd. Corn Silage	10	65

INPUTS - Price Inputs

As-Fed Basis		
2012 October ⇕		
DM %	Price $/Unit	Unit
84.5	7.92	bu ⇕
89.0	491.2	ton ⇕
35	16	ton ⇕

OUTPUTS

Calculated	
Predicted Value, $/Unit	Actual Price as % of Predicted Value

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

Drought Stressed Corn Silage

Value based on:
- Corn and
- Soybean meal

Drought Stressed Corn Silage

Price **soybean meal**	$1	$2	$3	$4	$5	$6	$7	$8	$9	$10
$/cwt as fed basis				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

Valuation of Alfalfa Hay

	INPUTS - Nutrients for Ingredients		INPUTS - Price Inputs			OUTPUTS	
	Nutrient		**As-Fed Basis**			**Calculated**	
Ingredient	CP % ⬍	NEl3x N ⬍	2012 October ⬍			**Predicted Value, $/Unit**	**Actual Price as % of Predicted Value**
Ingredients ↓	Nutrient Calculated Value, $/Unit DM		DM %	Price $/Unit	Unit		
☑ Shelled Corn	9	0.91	89	7.92	bu ⬍		
☑ Soybean Meal 48%	54	1	89	491.2	ton ⬍		
☐ Untreated	23.80	0.708	90.78		ton ⬍		
☐ Fungicide	24.88	0.744	91.28		ton ⬍		
☐ Insecticide	25.60	0.749	91.34		ton ⬍		
☐ Insecticide+Fungicide	24.32	0.732	91.42		ton ⬍		
☑ Good Quality Hay	20	0.6	87	248.66	ton ⬍		
☑ Poor Quality Hay	16	0.5	87	180	ton ⬍		
☑ Corn Silage	7	0.67	35	60	ton ⬍		

Trial Control and Treatments

Field Results of Trial Control and Treatments

Function of: ADF, NDF, NDFD

Valuation of Alfalfa Hay

INPUTS - Nutrients for Ingredients			INPUTS - Price Inputs			OUTPUTS	
Nutrient			**As-Fed Basis**			**Calculated**	
Ingredient	CP %	NEl3x N	2012 October			**Predicted Value, $/Unit**	**Actual Price as % of Predicted Value**
	Nutrient Calculated Value, $/Unit DM		DM %	Price $/Unit	Unit		
Ingredients ↓	0.268	0.132					
☑ Shelled Corn	9	0.91	89	7.92	bu	7.211 /bu	110
☑ Soybean Meal 48%	54	1	89	491.2	ton	493.786 /ton	99
☐ Untreated	23.80	0.708	90.78		ton	286.256 /ton	0
☐ Fungicide	24.88	0.744	91.28		ton	301.830 /ton	0
☐ Insecticide	25.60	0.749	91.34		ton	306.769 /ton	0
☐ Insecticide+Fungicide	24.32	0.732	91.42		ton	296.638 /ton	0
☑ Good Quality Hay	20	0.6	87	248.66	ton	231.697 /ton	107
☑ Poor Quality Hay	16	0.5	87	180	ton	189.967 /ton	95
☑ Corn Silage	7	0.67	35	60	ton	75.274 /ton	80

Predicted values for Control and Treatments

Acknowledgement
Project support

United States Department of Agriculture
National Institute of Food and Agriculture

Thanks