

# ACS Computer Services

10800 Lincoln Heights \* Hagerstown, MD 21740 \* 301-582-0710

Formulations by Gene Lyman

JOHN S. DAIRYMAN  
 DAIRYMAN FAMILY FARMS  
 10500 OLD CREEK ROAD  
 SOMETOWN, US 99999

September 17, 2001

## RATION NUTRIENT SUMMARY REPORT

Planning profile: HI GROUP BASE RATION

### RATION SUMMARY

<u>Ingredient</u>	<u>As fed level</u>	<u>Dry level</u>	<u>Cost</u>	<u>Cost/T</u>
CORN SIL 35% GRAIN	91.16	30.08	0.00	0.00
SOYBEAN ROASTED	12.20	10.98	0.79	130.00
CORN, FLAKED	10.46	8.99	0.49	94.00
ALFALFA HAY MID 21%	8.00	7.28	0.34	85.00
SALT	0.28	0.28	0.02	116.00
CALCIUM CARBONATE	0.15	0.15	0.00	60.00
DICALCIUM PHOSPHATE	0.12	0.11	0.01	245.00
TRACE MINERAL MIX	0.06	0.06	0.01	233.95
VITAMIN A-D-E MIX	0.05	0.05	0.02	645.27
TALLOW	0.00	0.00	0.00	240.00
ZINC OXIDE	0.00	0.00	0.00	550.00
Forages:	99.16	26.83	0.34	6.86
Concentrates:	23.33	31.17	1.34	115.25
Total:	122.49	58.00	1.68	27.50
Dry Cost:				58.07

### NUTRIENT LEVELS

<u>Nutrient</u>	<u>Required</u>	<u>Provided</u>	<u>Amount</u>	<u>Nutrient</u>	<u>Required</u>	<u>Provided</u>	<u>Amount</u>		
Dry matter	58.00		58.00 lbs	Sodium	gm	58.69	59.02		
NE, lactation	Mc/lb	0.72	0.69	40.28 Mcal	Chlorine	gm	73.99	118.93	
Crude protein	%	18.28	17.24	10.00 lbs	Sulfur	gm	52.43	48.81	
Forage	%	45.00	46.27	26.83 lbs	Selenium	ppm	0.30	0.22	5.78 mg
NDF	%	29.00	39.11	22.68 lbs	Cobalt	ppm	0.11	0.21	5.5 mg
ADF	%	19.00	25.19	14.61 lbs	Copper	ppm	11.29	11.54	304.1 mg
NFC	%	-	33.50	19.43 lbs	Iodine	ppm	0.43	0.43	11.3 mg
Crude fat	%	3.00	5.81	3.37 lbs	Manganese	ppm	12.57	34.93	920.8 mg
RDP	% CP	59.35	56.91	5.69 lbs	Zinc	ppm	53.52	54.24	1429.7 mg
RUP	% CP	40.65	43.09	4.31 lbs	Iron	ppm	17.34	174.45	4598.5 mg
Calcium	gm	152.92	153.88	Vitamin A	IU/lb	1214	1549	89825 IU	
Phosphorus	gm	98.76	99.34	Vitamin D	IU/lb	331	400	23226 IU	
Magnesium	gm	54.55	61.00	Vitamin E	IU/lb	9	9	512 IU	
Potassium	gm	280.29	321.90						

### RATION STATISTICS

Calcium/Phosphorus	::	1.5 : 1	Net energy/Protein	::	4.0 : 1
Potassium/Ca+Mg)	::	1.5 : 1	Nitrogen/sulfur	::	14.9 : 1
Forage/Concentrate	::	46 :54	Moisture	::	52.6 %
Milk support : NEL	::	89 CP 88			

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## TMR FEEDING SCHEDULE 2 Feedings daily

### HI GROUP TMR RATION

Ingredient	Act	Cum	Act	Cum	Act	Cum	Act	Cum
Number head=>	*1* AF DM		88		90		92	
HI GROUP PRO/MIN MIX	6.43	90.5	566	566	579	579	592	592
CORN, FLAKED	5.23	86.0	460	1026	471	1050	481	1073
ALFALFA HAY MID 21%	4.00	91.0	352	1378	360	1410	368	1441
CORN SIL 35% GRAIN	45.6	33.0	4011	5389	4102	5512	4193	5634
Number head=>	94		96		98		100	
HI GROUP PRO/MIN MIX	605	605	618	618	631	631	643	643
CORN, FLAKED	492	1096	502	1120	512	1143	523	1166
ALFALFA HAY MID 21%	376	1472	384	1504	392	1535	400	1566
CORN SIL 35% GRAIN	4285	5757	4376	5879	4467	6002	4558	6124
Number head=>	102		104		106		108	
HI GROUP PRO/MIN MIX	656	656	669	669	682	682	695	695
CORN, FLAKED	533	1190	544	1213	554	1236	565	1260
ALFALFA HAY MID 21%	408	1598	416	1629	424	1660	432	1692
CORN SIL 35% GRAIN	4649	6247	4740	6369	4832	6492	4923	6614
Number head=>	110		112		114		116	
HI GROUP PRO/MIN MIX	708	708	721	721	734	734	746	746
CORN, FLAKED	575	1283	586	1306	596	1330	607	1353
ALFALFA HAY MID 21%	440	1723	448	1754	456	1786	464	1817
CORN SIL 35% GRAIN	5014	6737	5105	6859	5196	6982	5287	7104

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## TMR FEEDING SCHEDULE Mixing Schedule for High Moisture Ingredients-HI GROUP TMR RATION

### **CORN SIL 35% GRAIN**

<b><u>Number head &gt;&gt;</u></b>	<b><u>1</u></b>	<b><u>88</u></b>	<b><u>90</u></b>	<b><u>92</u></b>	<b><u>94</u></b>	<b><u>96</u></b>	<b><u>98</u></b>	<b><u>100</u></b>
25.0 %DM	60	5295	5415	5535	5656	5776	5896	6017
29.0 %DM	52	4564	4668	4772	4876	4979	5083	5187
<u>33.0 %DM</u>	<u>46</u>	<u>4011</u>	<u>4102</u>	<u>4193</u>	<u>4285</u>	<u>4376</u>	<u>4467</u>	<u>4558</u>
37.0 %DM	41	3577	3659	3740	3821	3903	3984	4065
41.0 %DM	37	3228	3302	3375	3449	3522	3595	3669
<b><u>Number head &gt;&gt;</u></b>	<b><u>102</u></b>	<b><u>104</u></b>	<b><u>106</u></b>	<b><u>108</u></b>	<b><u>110</u></b>	<b><u>112</u></b>	<b><u>114</u></b>	<b><u>116</u></b>
25.0 %DM	6137	6257	6378	6498	6618	6739	6859	6979
29.0 %DM	5290	5394	5498	5602	5705	5809	5913	6017
<u>33.0 %DM</u>	<u>4649</u>	<u>4740</u>	<u>4832</u>	<u>4923</u>	<u>5014</u>	<u>5105</u>	<u>5196</u>	<u>5287</u>
37.0 %DM	4147	4228	4309	4390	4472	4553	4634	4716
41.0 %DM	3742	3815	3889	3962	4036	4109	4182	4256

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## BATCH MIXING SCHEDULE Mixture : HI GROUP PRO/MIN MIX

### MIX SPECIFICATIONS

<u>INGREDIENT</u>	<u>Percent</u>	<u>WEIGHT</u>		<u>WEIGHT</u>		<u>WEIGHT</u>	
		<u>Act</u>	<u>Cum</u>	<u>Act</u>	<u>Cum</u>	<u>Act</u>	<u>Cum</u>
SOYBEAN ROASTED	94.812 %	1896.23	1896.23	2844.35	2844.35	3792.46	3792.46
SALT	2.193 %	43.86	1940.09	65.79	2910.14	87.71	3880.17
CALCIUM CARBONATE	1.186 %	23.72	1963.81	35.57	2945.71	47.43	3927.60
DICALCIUM PHOSPHAT	0.908 %	18.17	1981.98	27.25	2972.96	36.34	3963.94
TRACE MINERAL MIX	0.460 %	9.20	1991.18	13.80	2986.76	18.40	3982.34
VITAMIN A-D-E MIX	0.397 %	7.94	1999.12	11.91	2998.67	15.88	3998.22
TALLOW	0.034 %	0.68	1999.80	1.03	2999.70	1.37	3999.59
ZINC OXIDE	0.010 %	0.20	2000.00	0.30	3000.00	0.40	3999.99

### NUTRIENT PROFILE

<u>Nutrient</u>	<u>As Fed</u>	<u>Dry</u>	<u>Nutrient</u>	<u>As Fed</u>	<u>Dry</u>
Dry matter, %	90.47		Cobalt, ppm	0.18	0.20
NE, lactation, Mc/lb	0.96	1.07	Copper, ppm	17.13	18.93
Crude protein, %	36.71	40.57	Iron, ppm	217.14	240.01
Calcium, %	1.11	1.23	Iodine, ppm	1.84	2.03
Magnesium, %	0.25	0.28	Manganese, ppm	41.04	45.36
Phosphorus, %	0.73	0.80	Selenium, ppm	0.68	0.75
Potassium, %	1.54	1.70	Zinc, ppm	178.48	197.27
Sulfur, %	0.30	0.33	Vitamin A, IU/lb	6984	7719
Sodium, %	0.86	0.96	Vitamin D, IU/lb	1806	1996
Chlorine, %	1.36	1.50	Vitamin E, IU/lb	40	44