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EC83-256 "Cattlelog" of Dairy Rations

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Joyce Meader

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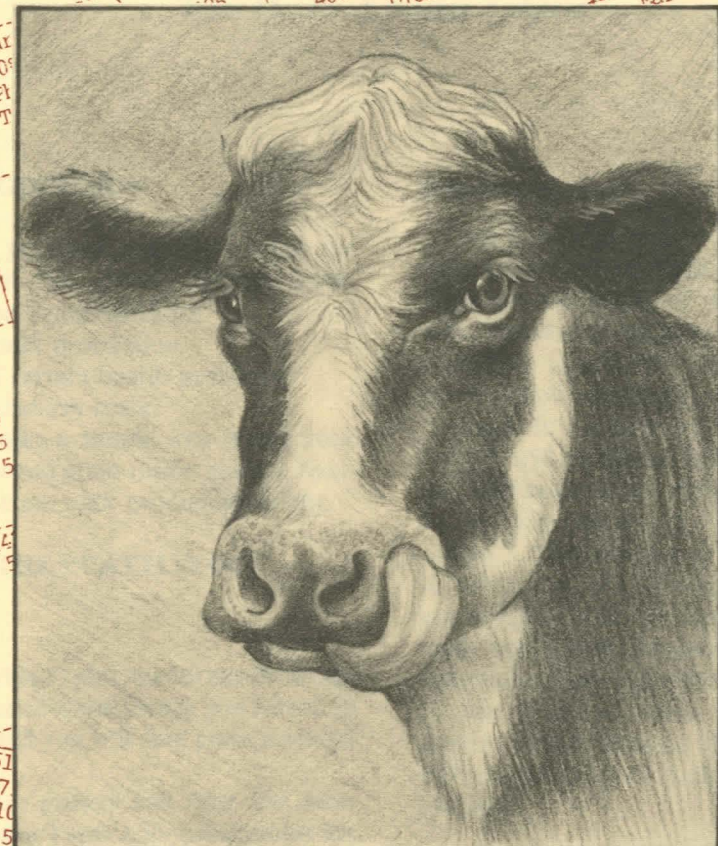
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Grain Mixes (lb/ton batch): Feeding
%CP = 15.7; %Ca = .64; %Phos = .48
Nebraska Cooperative Extension Service

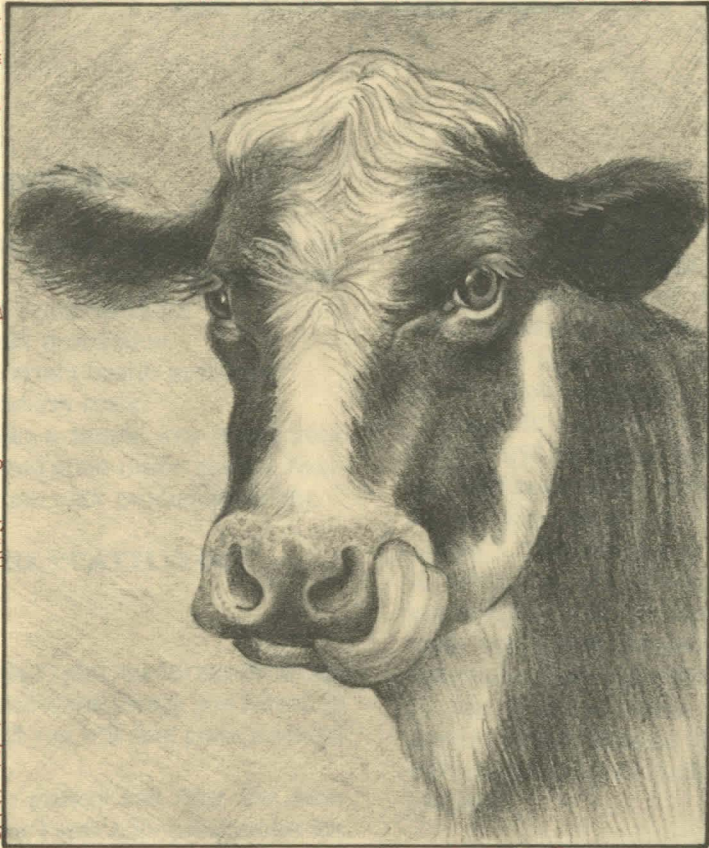
EC 83-256

"CATTLELOG" of Dairy Rations



Includes 600 computer formulated dairy rations.

"CATTLELOG" of Dairy Rations



Includes 600 computer formulated dairy rations.

atch): Feeding Schedule G
Phos = .5

Ear corn (gr)	935
Oats	630
32% Supp.	420
Phos. Dical	10
T.M. Salt	5

Ear corn (gr)	980
Oats	650
36% Supp.	355
Phos. Dical	10
T.M. Salt	5

Ear corn (gr)	1000
Oats	670
40% Supp.	315
Phos. Dical	10
T.M. Salt	5

Ear corn (gr)	1055
Oats	700
50% Supp.	230
Phos. Dical	10
T.M. Salt	5

Ear corn (gr)	1005
Oats	670
SBM, solv.	280
Phos. Dical	20
Limestone	5
T.M. Salt	15
Vit. A & D	5

Ear corn (gr)	960
Oats	640
Soybeans	355
Phos. Dical	25
T.M. Salt	15
Vit. A & D	5

Ear corn (gr)	1510
Soybeans	445
Phos. Dical	25
T.M. Salt	15
Vit. A & D	5

Ear corn (gr)	1600
SBM, solv.	355
Phos. Dical	20
Limestone	5
T.M. Salt	15
Vit. A & D	5

Ear corn (gr)	1020
Oats	675
40% Supp.	290
Phos. Dical	10
T.M. Salt	5

Ear corn (gr)	1065
Oats	710
50% Supp.	210
Phos. Dical	10
T.M. Salt	5

Ear corn (gr)	1015
Oats	675
SBM, solv.	265
Phos. Dical	20
Limestone	5
T.M. Salt	15
Vit. A & D	5

Ear corn (gr)	980
Oats	650
Soybeans	325
Phos. Dical	25
T.M. Salt	15
Vit. A & D	5

Ear corn (gr)	1525
Oats	460
40% Supp.	10
Phos. Dical	5
T.M. Salt	10

Ear corn (gr)	1645
Oats	340
50% Supp.	5
Phos. Dical	10
T.M. Salt	10

Ear corn (gr)	1530
Oats	415
SBM, solv.	15
Phos. Dical	20
Limestone	15
T.M. Salt	15
Vit. A & D	5

Ear corn (gr)	1480
Oats	515
36% Supp.	5
Phos. Dical	10
T.M. Salt	10

Ear corn (gr)	1380
Oats	615
35% DM	5
Phos. Dical	10
T.M. Salt	10

Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Leo E. Lucas, Director of Cooperative Extension Service, University of Nebraska, Institute of Agriculture and Natural Resources.

“Cattlelog” of Dairy Rations

Foster G. Owen, Extension Dairyman
Joyce Meader, Extension Assistant

INTRODUCTION

A profitable feeding program needs to match the cow's requirements with the proper nutrient level. Feeding a balanced ration is necessary to:

1. Maintain the best milk production.
2. Lower incidence of certain health problems.
3. Minimize milk production costs.

This “cattlelog” contains a simple way (using your own feeds) to find a balanced grain ration and the feeding level needed for different milk production levels.

HOW TO USE THE “CATTLELOG”

Selection of Feeds

1. From the Index (Table 1) pick the forage or forage combination that best matches the forage you intend to feed. On the page indicated you will find grain mixes to feed with this forage.

2. Test your forages for protein and fiber and compare them to the analyses in Table 2 for selection of the forage quality to use. If tests are not available, use a conservative estimate.

3. Select the grain mix that uses the ingredients you have on hand.

Amounts to Feed

1. Feed different levels of grain mix for different milk production levels according to the schedule indicated with each ration (Table 3).

Example

Situation: Holstein herd. Available forages: corn silage and alfalfa hay. Dairyman wants to feed only 30 lb corn silage per head daily. Hay analyzed at 16.3% crude protein and 39.5% acid detergent fiber. Oats, milo, and a 40% commercial supplement are available to include in the grain ration.

Selection of Feeds

Step 1. See Table 1 to find the page listing grain rations to feed. (With 30 lb of corn silage plus alfalfa hay there are two pages of rations listed: one for feeding with immature alfalfa and one for feeding with midbloom alfalfa. To select the correct page you must know the protein and fiber content of the forage.)

Step 2. In this situation the alfalfa tested 16.3% crude protein and 39.5% acid detergent fiber. Table 2 shows that this analysis is a close match to midbloom alfalfa. So, the appropriate set of rations to use is on page 19.

Step 3. There are many rations on page 19. You want to select the one grain mix the dairyman wants to use—the one with the ingredients he has on hand (oats, milo, and a 40% supplement). Column 3 lists rations containing those ingredients. Read down Column 3 until you find the ration with 40% supplement. The selected ration contains 935 lb milo, 620 lb oats, 425 lb 40% supplement, 10 lb phos dical, and 10 lb TM salt per ton mix.

If a commercial mineral supplement is to be used to replace the phos dical, use Table 4 to determine how to make this substitution.

Amounts to Feed

1. At the top of the page on which your grain mix is located are the words “Feeding Schedule E”. Feeding schedules are shown in Table 3. This table will indicate the amounts of the ration recommended for cows at different daily milk production levels.

For example, if the dairyman's cow is producing 40 lb milk per day, Schedule E (Table 4) shows that 14 lb of the ration should be fed daily.

NOTE: If rations in this publication do not meet your needs and you desire customized formulations, the AGNET computer program, Feed-mix Dairy, is recommended. Information on this program is available through the Extension Service.

Table 1. Index to grain rations to feed with these forages and forage combinations^{a/}

Rations	Page
Alfalfa hay, MB	7
Alfalfa haylage, MB	8
Alfalfa silage, MB w/ alfalfa hay, MB	9
Alfalfa silage, MB w/ grass hay, AV	10
Alfalfa hay, EB	11
Alfalfa haylage, EB	12
Alfalfa silage, EB w/ alfalfa hay, EB	13
Alfalfa silage, EB w/ grass hay, AV	14
Alfalfa hay, IM	15
Alfalfa haylage, IM	16
Alfalfa silage, IM w/ alfalfa hay, MB	17
Alfalfa silage, IM w/ grass hay, AV	18
Corn silage, 30 lb w/ alfalfa hay, MB	19
Corn silage, 30 lb w/ alfalfa hay, IM	20
Corn silage, 40 lb w/ alfalfa, MB	21
Corn silage, 40 lb w/ alfalfa, IM	22
Corn silage, 50 lb w/ alfalfa hay, MB	23
Corn silage, 50 lb w/ alfalfa hay, IM	24
Grass hay, AV	25
Grass haylage, AV	26
Grass silage, AV w/ alfalfa hay, MB	27
Grass hay, very good	28
Grass haylage, very good	29
Grass silage, very good w/ alfalfa hay, MB	30
Pasture, fair w/ alfalfa hay, MB	31
Pasture, good w/ alfalfa hay, MB	32
Pasture, excellent w/ alfalfa hay, MB	33
Small grain hay	34
Small grain haylage	35
Small grain silage w/ alfalfa hay, MB	36
Sorgo silage, 30 lb w/ alfalfa hay, MB	37
Sorgo silage, 35 lb w/ alfalfa hay, IM	38

^{a/} Abbreviations: MB = midbloom; EB = early bloom; IM = immature; AV = average; w/ = with

Table 2. Feed composition.

Feed	% Crude protein (CP)	% Acid detergent fiber (ADF)	% Calcium (Ca)	% Phosphorus (Phos)
Forages	------(dry basis)-----			
Alfalfa, mid bloom (MB)	16.0	40	1.35	.22
Alfalfa, early bloom (EB)	18.5	38	1.40	.23
Alfalfa, immature (IM)	21.5	31	1.72	.30
Grass, average (AV)	8.0	41	.42	.20
Grass, very good (VG)	10.5	40	.43	.25
Corn silage	8.0	29	.27	.20
Sorgo silage	8.0	34	.35	.20
Small grain forage, dough	9.5	41	.36	.28
Pasture, fair	6.2	41	.38	.14
Pasture, good	10.0	37	.31	.14
Pasture, excellent	14.0	31	.43	.30
Grains				
Corn or milo	10.0	7	.03	.30
Oats	14.0	17	.11	.36
Ear corn	9.0	14	.05	.28
High-protein sources				
32% supplement	35	9	2.6	1.0
36% supplement	40	9	2.6	1.1
40% supplement	44	9	2.6	1.3
50% supplement	55	9	4.0	1.3
Soybean meal, (solv)	49	10	.36	.75
Soybeans	42	10	.28	.66
Minerals				
Dicalcium phosphate			38	19
Monosodium phosphate			0	25
Limestone			38	0

Vitamins A & D = 1 million IU Vit A and 500,000 IU Vit D/pound supplement.

Table 3. Grain feeding schedules.

---- Milk (lb/day) ----															
Schedule ^a	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
----- (Grain (lb) to feed daily) ^b -----															
A	6	6	6	6	8	10	13	16	18	21	23	26	28	31	33
B	6	6	8	10	12	14	17	20	22	25	27	30	32	**	**
C	7	8	10	12	14	17	19	22	24	27	29	31	33	**	**
D	8	10	11	13	15	18	20	23	25	28	30	32	34	**	**
E	9	11	12	14	16	19	21	24	26	29	31	33	**	**	**
F	10	12	13	15	17	20	22	25	27	30	32	**	**	**	**
G	11	13	14	16	18	21	23	26	28	31	33	**	**	**	**
H	12	14	15	17	19	22	24	27	29	32	**	**	**	**	**
I	15	17	18	20	22	25	27	30	32	**	**	**	**	**	**

^a/One of these schedules is indicated with each forage and forage combination published in this catalog. They are calculated to provide for the supplemental energy needs when feeding forages of different qualities:

Schedule	A	B	C	D	E	F	G	H	I
Forage Energy (Mcal ENE /cwt)	59	55	53	52	50	47	45	44	38

^b/Add about 1 lb of grain for each .3% unit over 3.6% fat test.

**Above these levels of grain care must be exercised to assure that the cow stays on feed and consumes adequate roughage. At high levels the grain mixture should be fed in three or more portions and, if possible, should contain high fiber, high energy ingredients such as oats, wheat bran, barley, corn and cob meal, soyhulls or beet pulp.

Table 4. Alternative phosphorus sources.

Phosphorus supplements	1 lb Dicalcium phosphate equals	1 lb Monosodium phosphate equals
	----- (lbs) -----	
18% phos	1.0 ^a	1.4
16% phos	1.2 ^a	1.6
15% phos	1.3 ^a	1.7
12% phos	1.6 ^a	2.1
11% phos	1.7 ^a	2.3
8% phos	2.4 ^a	3.1

^a/Supplement must have calcium level equal or greater than phosphorus level.

Use these values as follows:

Example 1. The catalog ration indicates a need for 2.5 lb of dicalcium phosphate in a ton batch and you do not have dicalcium phosphate, but have a commercial supplement containing 12% phosphorus. You could replace the 2.5 lb of dicalcium phosphate with 4.0 lb of your supplement. This value = 2.5×1.6 (from above table) = 4.0.

Example 2. The catalog ration indicates a need for 1.5 lb of monosodium phosphate and you have a 18% phosphorus-containing commercial supplement but no monosodium phosphate. You could use 2.1 lb of the commercial supplement to replace the 1.5 lb of monosodium phosphate ($1.5\% \times 1.4 = 2.1$ lb).

ALFALFA HAY, ME 22 LBS (Free Choice)

Grain Mixes (lb/ton batch): Feeding Schedule H
 %CP = 12; %Ca = .30; %Phos = .52

Corn or milo	1645	Ear corn (gr)	1615	Corn or milo	1060	Ear corn (gr)	1060
32% Supp.	330	32% Supp.	360	Oats	705	Oats	680
Phos. Dical	15	Phos. Dical	15	32% Supp.	210	32% Supp.	235
T.M. Salt	10	T.M. Salt	10	Phos. Dical	15	Phos. Dical	15
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1700	Ear corn (gr)	1675	Corn or milo	1085	Ear corn (gr)	1065
36% Supp.	275	36% Supp.	300	Oats	720	Oats	710
Phos. Dical	15	Phos. Dical	15	36% Supp.	170	36% Supp.	200
T.M. Salt	10	T.M. Salt	10	Phos. Dical	15	Phos. Dical	15
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1735	Ear corn (gr)	1705	Corn or milo	1095	Ear corn (gr)	1085
40% Supp.	240	40% Supp.	270	Oats	730	Oats	720
Phos. Dical	15	Phos. Dical	15	40% Supp.	150	40% Supp.	170
T.M. Salt	10	T.M. Salt	10	Phos. Dical	15	Phos. Dical	15
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1795	Ear corn (gr)	1775	Corn or milo	1120	Ear corn (gr)	1105
50% Supp.	180	50% Supp.	200	Oats	755	Oats	740
Phos. Dical	15	Phos. Dical	15	50% Supp.	100	50% Supp.	130
T.M. Salt	10	T.M. Salt	10	Phos. Dical	15	Phos. Dical	15
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1740	Ear corn (gr)	1720	Corn or Milo	1075	Ear corn (gr)	1085
SBM, solv.	220	SBM, solv.	240	Oats	745	Oats	720
Phos. Dical	20	Phos. Dical	20	SBM, solv.	140	SBM, solv.	155
T.M. Salt	15	T.M. Salt	15	Phos. Dical	20	Phos. Dical	20
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5
Corn or milo	1695	Ear corn (gr)	1670	Corn or Milo	1075	Ear corn (gr)	1060
Soybeans	260	Soybeans	285	Oats	715	Oats	705
Phos. Dical	25	Phos. Dical	25	Soybeans	165	Soybeans	190
T.M. Salt	15	T.M. Salt	15	Phos. Dical	25	Phos. Dical	25
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5

ALFALFA HAYLAGE, ME (60% DM) 33 LBS (FREE CHOICE)

Grain Mixes (lb/ton batch): Feeding Schedule H

%CP = 12; %Ca = .30; %Phos = .52

Corn or milo 1645	Ear corn (gr) 1615	Corn or milo 1060	Ear corn (gr) 1060
32% Supp. 330	32% Supp. 360	Oats 705	Oats 680
Phos. Dical 15	Phos. Dical 15	32% Supp. 210	32% Supp. 235
T.M. Salt 10	T.M. Salt 10	Phos. Dical 15	Phos. Dical 15
		T. M. Salt 10	T. M. Salt 10
Corn or milo 1700	Ear corn (gr) 1675	Corn or milo 1085	Ear corn (gr) 1065
36% Supp. 275	36% Supp. 300	Oats 720	Oats 710
Phos. Dical 15	Phos. Dical 15	36% Supp. 170	36% Supp. 200
T.M. Salt 10	T.M. Salt 10	Phos. Dical 15	Phos. Dical 15
		T. M. Salt 10	T. M. Salt 10
Corn or milo 1735	Ear corn (gr) 1705	Corn or milo 1095	Ear corn (gr) 1085
40% Supp. 240	40% Supp. 270	Oats 730	Oats 720
Phos. Dical 15	Phos. Dical 15	40% Supp. 150	40% Supp. 170
T.M. Salt 10	T.M. Salt 10	Phos. Dical 15	Phos. Dical 15
		T. M. Salt 10	T. M. Salt 10
Corn or milo 1795	Ear corn (gr) 1775	Corn or milo 1120	Ear corn (gr) 1105
50% Supp. 180	50% Supp. 200	Oats 755	Oats 740
Phos. Dical 15	Phos. Dical 15	50% Supp. 100	50% Supp. 130
T.M. Salt 10	T.M. Salt 10	Phos. Dical 15	Phos. Dical 15
		T. M. Salt 10	T. M. Salt 10
Corn or milo 1740	Ear corn (gr) 1720	Corn or Milo 1075	Ear corn (gr) 1085
SBM, solv. 220	SBM, solv. 240	Oats 745	Oats 720
Phos. Dical 20	Phos. Dical 20	SBM, solv. 140	SBM, solv. 155
T.M. Salt 15	T.M. Salt 15	Phos. Dical 20	Phos. Dical 20
Vit. A & D 5	Vit. A & D 5	T.M. Salt 15	T.M. Salt 15
		Vit. A & D 5	Vit. A & D 5
Corn or milo 1695	Ear corn (gr) 1670	Corn or Milo 1075	Ear corn (gr) 1060
Soybeans 260	Soybeans 285	Oats 715	Oats 705
Phos. Dical 25	Phos. Dical 25	Soybeans 165	Soybeans 190
T.M. Salt 15	T.M. Salt 15	Phos. Dical 25	Phos. Dical 25
Vit. A & D 5	Vit. A & D 5	T.M. Salt 15	T.M. Salt 15
		Vit. A & D 5	Vit. A & D 5

ALFALFA SILAGE, MB (35% DM) 44 LBS
ALFALFA HAY, MB 7 LBS

Grain Mixes (lb/ton batch): Feeding Schedule H
 %CP = 12; %Ca = .30; %Phos = .52

Corn or milo 1645	Ear corn (gr) 1615	Corn or milo 1060	Ear corn (gr) 1060
32% Supp. 330	32% Supp. 360	Oats 705	Oats 680
Phos. Dical 15	Phos. Dical 15	32% Supp. 210	32% Supp. 235
T.M. Salt 10	T. M. Salt 10	Phos. Dical 15	Phos. Dical 15
		T. M. Salt 10	T. M. Salt 10
Corn or milo 1700	Ear corn (gr) 1675	Corn or milo 1085	Ear corn (gr) 1065
36% Supp. 275	36% Supp. 300	Oats 720	Oats 710
Phos. Dical 15	Phos. Dical 15	36% Supp. 170	36% Supp. 200
T. M. Salt 10	T. M. Salt 10	Phos. Dical 15	Phos. Dical 15
		T. M. Salt 10	T. M. Salt 10
Corn or milo 1735	Ear corn (gr) 1705	Corn or milo 1095	Ear corn (gr) 1085
40% Supp. 240	40% Supp. 270	Oats 730	Oats 720
Phos. Dical 15	Phos. Dical 15	40% Supp. 150	40% Supp. 170
T. M. Salt 10	T. M. Salt 10	Phos. Dical 15	Phos. Dical 15
		T. M. Salt 10	T. M. Salt 10
Corn or milo 1795	Ear corn (gr) 1775	Corn or milo 1120	Ear corn (gr) 1105
50% Supp. 180	50% Supp. 200	Oats 755	Oats 740
Phos. Dical 15	Phos. Dical 15	50% Supp. 100	50% Supp. 130
T. M. Salt 10	T. M. Salt 10	Phos. Dical 15	Phos. Dical 15
		T. M. Salt 10	T. M. Salt 10
Corn or milo 1740	Ear corn (gr) 1720	Corn or Milo 1075	Ear corn (gr) 1085
SBM, solv. 220	SBM, solv. 240	Oats 745	Oats 720
Phos. Dical 20	Phos. Dical 20	SBM, solv. 140	SBM, solv. 155
T. M. Salt 15	T. M. Salt 15	Phos. Dical 20	Phos. Dical 20
Vit. A & D 5	Vit. A & D 5	T.M. Salt 15	T.M. Salt 15
		Vit. A & D 5	Vit. A & D 5
Corn or milo 1695	Ear corn (gr) 1670	Corn or Milo 1075	Ear corn (gr) 1060
Soybeans 260	Soybeans 285	Oats 715	Oats 705
Phos. Dical 25	Phos. Dical 25	Soybeans 165	Soybeans 190
T. M. Salt 15	T. M. Salt 15	Phos. Dical 25	Phos. Dical 25
Vit. A & D 5	Vit. A & D 5	T.M. Salt 15	T.M. Salt 15
		Vit. A & D 5	Vit. A & D 5

ALFALFA SILAGE, MB (35% DM) 38 LBS				Grain Mixes (lb/ton batch): Feeding Schedule H			
GRASS HAY, AV 7 LBS				%CP = 14.3; %Ca = .71; %Phos = .52			
Corn or milo	1480	Ear corn (gr)	1455	Corn or milo	950	Ear corn (gr)	935
32% Supp.	505	32% Supp.	360	Oats	705	Oats	680
Phos. Dical	10	Phos. Dical	15	32% Supp.	210	32% Supp.	235
T.M. Salt	5	T.M. Salt	10	Phos. Dical	15	Phos. Dical	15
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1560	Ear corn (gr)	1535	Corn or milo	1000	Ear corn (gr)	980
36% Supp.	425	36% Supp.	300	Oats	665	Oats	650
Phos. Dical	10	Phos. Dical	15	36% Supp.	320	36% Supp.	355
T.M. Salt	5	T.M. Salt	10	Phos. Dical	10	Phos. Dical	10
				T. M. Salt	5	T. M. Salt	5
Corn or milo	1610	Ear corn (gr)	1585	Corn or milo	1020	Ear corn (gr)	1000
40% Supp.	375	40% Supp.	400	Oats	675	Oats	670
Phos. Dical	10	Phos. Dical	10	40% Supp.	290	40% Supp.	315
T.M. Salt	5	T.M. Salt	5	Phos. Dical	10	Phos. Dical	10
				T. M. Salt	5	T. M. Salt	5
Corn or milo	1700	Ear corn (gr)	1685	Corn or milo	1065	Ear corn (gr)	1055
50% Supp.	285	50% Supp.	300	Oats	710	Oats	700
Phos. Dical	10	Phos. Dical	10	50% Supp.	210	50% Supp.	230
T.M. Salt	5	T.M. Salt	5	Phos. Dical	10	Phos. Dical	10
				T. M. Salt	5	T. M. Salt	5
Corn or milo	1620	Ear corn (gr)	1600	Corn or Milo	1015	Ear corn (gr)	1005
SBM, solv.	335	SBM, solv.	355	Oats	675	Oats	670
Phos. Dical	20	Phos. Dical	20	SBM, solv.	265	SBM, solv.	280
Limestone	5	Limestone	5	Phos. Dical	20	Phos. Dical	20
T.M. Salt	15	T.M. Salt	15	Limestone	5	Limestone	5
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5
Corn or milo	1540	Ear corn (gr)	1510	Corn or Milo	980	Ear corn (gr)	960
Soybeans	415	Soybeans	445	Oats	650	Oats	640
Phos. Dical	25	Phos. Dical	25	Soybeans	325	Soybeans	355
T.M. Salt	15	T.M. Salt	15	Phos. Dical	25	Phos. Dical	25
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5

ALFALFA HAY, EB 30 LBS (Free Choice)

Grain Mixes (lb/ton batch): Feeding Schedule E
 %CP = 8.3; %Ca = .26; %Phos = .55

Corn or milo	1936	Ear corn (gr)	1936	Corn or Milo	1166	Ear corn (gr)	1166
Phos. Dical	20	Phos. Dical	20	Oats	770	Oats	770
Monosod. Phos.	9	Monosod. Phos.	9	Phos. Dical	20	Phos. Dical	20
T.M. Salt	25	T.M. Salt	25	Monosod. Phos	9	Monosod. Phos	9
Vit. A & D	10	Vit. A & D	10	T.M. Salt	25	T.M. Salt	25
				Vit. A & D	10	Vit. A & D	10

ALFALFA HAYLAGE, EB (60% DM) 44 LBS (Free Choice)				Grain Mixes (lb/ton batch): Feeding Schedule E			
				%CP = 8.3; %Ca = .26; %Phos = .55			
Corn or milo	1936	Ear corn (gr)	1936	Corn or Milo	1166	Ear corn (gr)	1166
Phos. Dical	20	Phos. Dcial	20	Oats	770	Oats	770
Monosod. Phos.	9	Monosod. Phos.	9	Phos. Dical	20	Phos. Dical	20
T.M. Salt	25	T.M. Salt	25	Monosod. Phos	9	Monosod. Phos	9
Vit. A & D	10	Vit. A & D	10	T.M. Salt	25	T.M. Salt	25
				Vit. A & D	10	Vit. A & D	10

<u>ALFALFA SILAGE, EE</u> (35% DM) 50 LBS		<u>Grain Mixes</u> (lb/ton batch): Feeding Schedule E			
<u>ALFALFA HAY, EE</u> 7 LBS		%CP = 8.3; %Ca = .26; %Phos = .55			
Corn or milo	1936	Ear corn (gr)	1936	Corn or Milo	1166
Phos. Dical	20	Phos. Dical	20	Cats	770
Monosod. Phos.	9	Monosod. Phos.	9	Phos. Dical	20
T.M. Salt	25	T.M. Salt	25	Monosod. Phos	9
Vit. A & D	10	Vit. A & D	10	T.M. Salt	25
				Vit. A & D	10

ALFALFA SILAGE, EB (35% DM) 47 LBS				Grain Mixes (lb/ton batch): Feeding Schedule F			
GRASS HAY, AV 7 LBS				%CP = 12; % Ca = .30; % Phos = .52			
Corn or milo	1645	Ear corn (gr)	1615	Corn or milo	1060	Ear corn (gr)	1060
32% Supp.	330	32% Supp.	360	Oats	705	Oats	680
Phos. Dical	15	Phos. Dical	15	32% Supp.	210	32% Supp.	235
T.M. Salt	10	T.M. Salt	10	Phos. Dical	15	Phos. Dical	15
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1700	Ear corn (gr)	1675	Corn or milo	1085	Ear corn (gr)	1065
36% Supp.	275	36% Supp.	300	Oats	720	Oats	710
Phos. Dical	15	Phos. Dical	15	36% Supp.	170	36% Supp.	200
T.M. Salt	10	T.M. Salt	10	Phos. Dical	15	Phos. Dical	15
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1735	Ear corn (gr)	1705	Corn or milo	1095	Ear corn (gr)	1085
40% Supp.	240	40% Supp.	270	Oats	730	Oats	720
Phos. Dical	15	Phos. Dical	15	40% Supp.	150	40% Supp.	170
T.M. Salt	10	T.M. Salt	10	Phos. Dical	15	Phos. Dical	15
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1795	Ear corn (gr)	1775	Corn or milo	1120	Ear corn (gr)	1105
50% Supp.	180	50% Supp.	200	Oats	755	Oats	740
Phos. Dical	15	Phos. Dical	15	50% Supp.	100	50% Supp.	130
T.M. Salt	15	T.M. Salt	10	Phos. Dical	15	Phos. Dical	15
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1740	Ear corn (gr)	1720	Corn or Milo	1075	Ear corn (gr)	1085
SBM, solv.	220	SBM, solv.	240	Oats	745	Oats	720
Phos. Dical	20	Phos. Dical	20	SBM, solv.	140	SBM, solv.	155
T.M. Salt	15	T.M. Salt	15	Phos. Dical	20	Phos. Dical	20
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5
Corn or milo	1695	Ear corn (gr)	1670	Corn or Milo	1075	Ear corn (gr)	1060
Soybeans	260	Soybeans	285	Oats	715	Oats	705
Phos. Dical	25	Phos. Dical	25	Soybeans	165	Soybeans	190
T.M. Salt	15	T.M. Salt	15	Phos. Dical	25	Phos. Dical	25
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5

ALFALFA HAY, IM 30 LBS (Free Choice)

Grain Mixes (lb/ton batch): Feeding Schedule A
 %CP = 8.3; %Ca = .26; %Phos = .55

Corn or milo	1936	Ear corn (gr)	1936	Corn or Milo	1166	Ear corn (gr)	1166
Phos. Dical	20	Phos. Dcial	20	Oats	770	Oats	770
Monosod. Phos.	9	Monosod. Phos.	9	Phos. Dical	20	Phos. Dical	20
T.M. Salt	25	T.M. Salt	25	Monosod. Phos	9	Monosod. Phos	9
Vit. A & D	10	Vit. A & D	10	T.M. Salt	25	T.M. Salt	25
				Vit. A & D	10	Vit. A & D	10

ALFALFA HAYLAGE, IM (60% DM) 44 LBS (Free Choice)

Grain Mixes (lb/ton batch): Feeding Schedule A

%CP = 8.3; %Ca = .26; %Phos = .55

Corn or milo	1936	Ear corn (gr)	1936	Corn or Milo	1166	Ear corn (gr)	1166
Phos. Dical	20	Phos. Dical	20	Oats	770	Oats	770
Monosod. Phos.	9	Monosod. Phos.	9	Phos. Dical	20	Phos. Dical	20
T.M. Salt	25	T.M. Salt	25	Monosod. Phos	9	Monosod. Phos	9
Vit. A & D	10	Vit. A & D	10	T.M. Salt	25	T.M. Salt	25
				Vit. A & D	10	Vit. A & D	10

ALFALFA SILAGE, IM (35% DM) 60 LBS (Free Choice)
ALFALFA HAY, MB 7 LBS

Grain Mixes (lb/ton batch): Feeding Schedule B
 %CP = 8.3; %Ca = .26; %Phos = .55

Corn or milo	1936	Ear corn (gr)	1936	Corn or Milo	1166	Ear corn (gr)	1166
Phos. Dical	20	Phos. Dical	20	Oats	770	Oats	770
Monosod. Phos.	9	Monosod. Phos.	9	Phos. Dical	20	Phos. Dical	20
T.M. Salt	25	T.M. Salt	25	Monosod. Phos	9	Monosod. Phos	9
Vit. A & D	10	Vit. A & D	10	T.M. Salt	25	T.M. Salt	25
				Vit. A & D	10	Vit. A & D	10

ALFALFA SILAGE, IM (35% DM) 60 LBS
 GRASS HAY, AV 7 LBS

Grain Mixes (lb/ton batch): Feeding Schedule B
 %CP = 8.3; %Ca = .41; %Phos = .55

Corn or milo	1935	Ear corn (gr)	1935	Corn or Milo	1160	Ear corn (gr)	1160
Phos. Dical	30	Phos. Dical	30	Oats	775	Oats	775
T.M. Salt	25	T.M. Salt	25	Phos. Dical	30	Phos. Dical	30
Vit. A & D	10	Vit. A & D	10	T.M. Salt	25	T.M. Salt	25
				Vit. A & D	10	Vit. A & D	10

CORN SILAGE,
ALFALFA HAY, MB

30 LBS
16 LBS

Grain Mixes (lb/ton batch): Feeding Schedule E
%CP = 16.6; %Ca = .44; %Phos = .61

Corn or milo	1315	Ear corn (gr)	1290	Corn or milo	850	Ear corn (gr)	835
32% Supp.	675	32% Supp.	700	Oats	560	Oats	555
Phos. Dical	10	Phos. Dical	10	32% Supp.	580	32% Supp.	600
				Phos. Dical	10	Phos. Dical	10
Corn or milo	1420	Ear corn (gr)	1400	Corn or milo	910	Ear corn (gr)	895
36% Supp.	565	36% Supp.	585	Oats	600	Oats	590
Phos. Dical	10	Phos. Dical	10	36% Supp.	475	36% Supp.	500
T.M. Salt	5	T.M. Salt	5	Phos. Dical	10	Phos. Dical	10
				T. M. Salt	5	T. M. Salt	5
Corn or milo	1480	Ear corn (gr)	1460	Corn or milo	935	Ear corn (gr)	925
40% Supp.	500	40% Supp.	520	Oats	620	Oats	615
Phos. Dical	10	Phos. Dical	10	40% Supp.	425	40% Supp.	440
T.M. Salt	10	T.M. Salt	10	Phos. Dical	10	Phos. Dical	10
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1600	Ear corn (gr)	1585	Corn or milo	1000	Ear corn (gr)	990
50% Supp.	375	50% Supp.	390	Oats	670	Oats	660
Phos. Dical	15	Phos. Dical	15	50% Supp.	305	50% Supp.	325
T.M. Salt	10	T.M. Salt	10	Phos. Dical	15	Phos. Dical	15
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1490	Ear corn (gr)	1470	Corn or Milo	935	Ear corn (gr)	925
SBM, solv.	455	SBM, solv.	475	Oats	620	Oats	620
Phos. Dical	25	Phos. Dical	25	SBM, solv.	390	SBM, solv.	400
Limestone	5	Limestone	5	Phos. Dical	25	Phos. Dical	25
T.M. Salt	20	T.M. Salt	20	Limestone	5	Limestone	5
Vit. A & D	5	Vit. A & D	5	T.M. Salt	20	T.M. Salt	20
				Vit. A & D	5	Vit. A & D	5
Corn or milo	1370	Ear corn (gr)	1350	Corn or Milo	870	Ear corn (gr)	860
Soybeans	575	Soybeans	595	Oats	580	Oats	570
Phos. Dical	30	Phos. Dical	30	Soybeans	495	Soybeans	515
T.M. Salt	20	T.M. Salt	20	Phos. Dical	30	Phos. Dical	30
Vit. A & D	5	Vit. A & D	5	T.M. Salt	20	T.M. Salt	20
				Vit. A & D	5	Vit. A & D	5

CORN SILAGE,
ALFALFA HAY, IM

30 LBS
22 LBS

Grain Mixes (lb/ton batch): Feeding Schedule A
%CP = 8.2; %Ca = .6; %Phos = .7

Corn or milo	1910	Ear corn (gr)	1910	Corn or Milo	1145	Ear corn (gr)	1145
Phos. Dical	50	Phos. Dical	50	Oats	765	Oats	765
T.M. Salt	30	T.M. Salt	30	Phos. Dical	50	Phos. Dical	50
Vit. A & D	10	Vit. A & D	10	T.M. Salt	30	T.M. Salt	30
				Vit. A & D	10	Vit. A & D	10

<u>CORN SILAGE</u>		40 LBS		<u>Grain Mixes</u> (lb/ton batch): Feeding Schedule C			
<u>ALFALFA HAY, MB</u>		12 LBS		%CP = 20.8; %Ca = .80; %Phos = .70			
Corn or milo	1145	Ear corn (gr)	1095	Corn or milo	745	Ear corn (gr)	685
32% Supp.	845	32% Supp.	895	Oats	455	Oats	420
Phos. Dical	10	Phos. Dical	10	32% Supp.	790	32% Supp.	845
				Phos. Dical	10	Phos. Dical	45
						T.M. Salt	5
Corn or milo	1285	Ear Corn (gr)	1235	Corn or milo	690	Ear corn (gr)	870
36% Supp.	700	36% Supp.	750	Oats	660	Oats	420
Phos. Dical	10	Phos. Dical	10	36% Supp.	635	36% Supp.	695
T.M. Salt	5	T.M. Salt	5	Phos. Dical	10	Phos. Dical	10
				T.M. Salt	5	T.M. Salt	5
Corn or milo	1355	Ear corn (gr)	1310	Corn or milo	745	Ear corn (gr)	940
40% Supp.	625	40% Supp.	665	Oats	665	Oats	420
Phos. Dical	5	Phos. Dical	10	40% Supp.	565	40% Supp.	615
T.M. Salt	15	T.M. Salt	5	Phos. Dical	10	Phos. Dical	10
				T.M. Salt	15	T.M. Salt	15
Corn or milo	1510	Ear corn (gr)	1470	Corn or milo	860	Ear corn (gr)	1090
50% Supp.	470	50% Supp.	505	Oats	690	Oats	420
Phos. Dical	10	Phos. Dical	15	50% Supp.	425	50% Supp.	465
T.M. Salt	10	T.M. Salt	10	Phos. Dical	15	Phos. Dical	15
				T.M. Salt	10	T.M. Salt	10
Corn or milo	1370	Ear corn (gr)	1330	Corn or Milo	780	Ear corn (gr)	950
SBM, solv.	565	SBM, solv.	600	Oats	650	Oats	420
Phos. Dical	25	Phos. Dical	30	SBM, solv.	510	SBM, solv.	560
Limestone	10	Limestone	10	Phos. Dical	25	Phos. Dical	45
T.M. Salt	20	T.M. Salt	20	Limestone	10	T.M. Salt	20
Vit. A & D	10	Vit. A & D	10	T.M. Salt	20	Vit. A & D	5
				Vit. A & D	5		
Corn or milo	1245	Ear corn (gr)	1200	Corn or Milo	865	Ear corn (gr)	735
Soybeans	690	Soybeans	700	Oats	415	Oats	420
Phos. Dical	30	SBM, Solv.	30	Soybeans	650	Soybeans	700
Limestone	10	Phos. Dical	45	Phos. Dical	45	Phos. Dical	80
T.M. Salt	20	T.M. Salt	20	T.M. Salt	20	Limestone	30
Vit. A & D	5	Vit. A & D	5	Vit. A & D	5	T.M. Salt	25
						Vit. A & D	10

CORN SILAGE		40 LBS		Grain Mixes (lb/ton batch): Feeding Schedule A	
ALFALFA HAY, 1M		18 LBS (Free Choice)		%CP = 14.26; %Ca = .70; %Phos = .85	
Corn or milo	1570	Ear corn (gr)	1510	Corn or milo	1005
32% Supp.	360	32% Supp.	425	Oats	645
Phos. Dical	40	Phos. Dical	40	32% Supp.	275
T.M. Salt	20	T.M. Salt	25	Phos. Dical	40
Vit. A & D	5	Vit. A & D	10	T.M. Salt	20
				Vit. A & D	10
Corn or milo	1630	Ear corn (gr)	1580	Corn or milo	1055
36% Supp.	300	36% Supp.	355	Oats	645
Phos. Dical	40	Phos. Dical	40	36% Supp.	225
T.M. Salt	25	T.M. Salt	20	Phos. Dical	40
Vit. A & D	5	Vit. A & D	5	T.M. Salt	25
				Vit. A & D	10
Corn or milo	1660	Ear corn (gr)	1615	Corn or milo	1075
40% Supp.	265	40% Supp.	310	Oats	645
Phos. Dical	40	Phos. Dical	40	40% Supp.	200
T.M. Salt	30	T.M. Salt	30	Phos. Dical	40
Vit. A & D	5	Vit. A & D	5	T.M. Salt	30
				Vit. A & D	5
Corn or milo	1725	Ear corn (gr)	1685	Corn or milo	1120
50% Supp.	205	50% Supp.	240	Oats	645
Phos. Dical	40	Phos. Dical	45	50% Supp.	150
T.M. Salt	25	T.M. Salt	25	Phos. Dical	45
Vit. A & D	5	Vit. A & D	5	T.M. Salt	30
				Vit. A & D	10
Corn or milo	1670	Ear corn (gr)	1625	Corn or Milo	1085
SBM, solv.	240	SBM, solv.	285	Oats	645
Phos. Dical	45	Phos. Dical	45	SBM, solv.	185
T.M. Salt	35	T.M. Salt	35	Phos. Dical	45
Vit. A & D	10	Vit. A & D	10	T.M. Salt	30
				Vit. A & D	10
Corn or milo	1620	Ear corn (gr)	1565	Corn or Milo	1045
Soybeans	295	Soybeans	345	Oats	645
Phos. Dical	45	Phos. Dical	50	Soybeans	625
T.M. Salt	30	T.M. Salt	30	Phos. Dical	45
Vit. A & D	10	Vit. A & D	10	T.M. Salt	30
				Vit. A & D	10

<u>CORN SILAGE,</u>		50 LBS	<u>Grain Mixes</u> (lb/ton batch): Feeding Schedule C				
<u>ALFALFA HAY, MB</u>		10 LBS	%CP = 20; %Ca = .9; %Phos = .7				
Corn or milo	1000	Ear corn (gr)	980	Corn or milo	640	Ear corn (gr)	635
32% Supp.	995	32% Supp.	1015	Oats	430	Oats	425
Phos. Dical	5	Phos. Dical	5	32% Supp.	925	32% Supp.	935
				Phos. Dical	5	Phos. Dical	5
Corn or milo	1155	Ear corn (gr)	1135	Corn or milo	730	Ear corn (gr)	725
36% Supp.	840	36% Supp.	860	Oats	495	Oats	480
Phos. Dical	5	Phos. Dical	5	36% Supp.	770	36% Supp.	790
				Phos. Dical	5	Phos. Dical	5
Corn or milo	1235	Ear corn (gr)	1215	Corn or milo	780	Ear corn (gr)	770
40% Supp.	745	40% Supp.	765	Oats	520	Oats	515
Phos. Dical	5	Phos. Dical	5	40% Supp.	680	40% Supp.	695
T.M. Salt	15	T.M. Salt	15	Phos. Dical	5	Phos. Dical	5
				T. M. Salt	15	T. M. Salt	15
Corn or milo	1430	Ear corn (gr)	1420	Corn or milo	895	Ear corn (gr)	885
50% Supp.	550	50% Supp.	560	Oats	595	Oats	590
Phos. Dical	10	Phos. Dical	10	50% Supp.	490	50% Supp.	505
T.M. Salt	10	T.M. Salt	10	Phos. Dical	10	Phos. Dical	10
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1245	Ear corn (gr)	1230	Corn or Milo	780	Ear corn (gr)	775
SBM, solv.	675	SBM, solv.	690	Oats	520	Oats	515
Phos. Dical	30	Phos. Dical	30	SBM, solv.	620	SBM, solv.	630
Limestone	25	Limestone	25	Phos. Dical	30	Phos. Dical	30
T.M. Salt	20	T.M. Salt	20	Limestone	25	Limestone	25
Vit. A & D	5	Vit. A & D	5	T.M. Salt	20	T.M. Salt	20
				Vit. A & D	5	Vit. A & D	5
Corn or milo	1040	Ear corn (gr)	1025	Corn or Milo	660	Ear corn (gr)	655
SBM, solv.	175	SBM, solv.	190	Oats	430	Oats	420
Soybeans	700	Soybeans	700	SBM, solv.	125	SBM, solv.	140
Phos. Dical	35	Phos. Dical	35	Soybeans	700	Soybeans	700
Limestone	15	Limestone	15	Phos. Dical	35	Phos. Dical	35
T.M. Salt	25	T.M. Salt	25	Limestone	15	Limestone	15
Vit. A & D	10	Vit. A & D	10	T.M. Salt	25	T.M. Salt	25
				Vit. A & D	10	Vit. A & D	10

CORN SILAGE		50 LBS		Grain Mixes (lb/ton batch): Feeding Schedule A			
ALFALFA HAY, IM		15 Lbs (Free Choice)		%CP = 16.8; %Ca = .88; %Phos = .61			
Corn or milo	1275	Ear corn (gr)	1250	Corn or milo	820	Ear corn (gr)	790
32% Supp.	715	32% Supp.	740	Oats	545	Oats	525
Phos. Dical	10	Phos. Dical	10	32% Supp.	625	32% Supp.	675
				Phos. Dical	10	Phos. Dical	10
Corn or milo	1375	Ear corn (gr)	1290	Corn or milo	875	Ear corn (gr)	860
36% Supp.	615	36% Supp.	700	Oats	590	Oats	580
Phos. Dical	10	Phos. Dical	10	36% Supp.	525	36% Supp.	550
				Phos. Dical	10	Phos. Dical	10
Corn or milo	1435	Ear corn (gr)	1415	Corn or milo	905	Ear corn (gr)	885
40% Supp.	540	40% Supp.	560	Oats	600	Oats	600
Phos. Dical	10	Phos. Dical	10	40% Supp.	465	40% Supp.	490
Limestone	5	Limestone	5	Phos. Dical	10	Phos. Dical	10
T.M. Salt	10	T.M. Salt	10	Limestone	5	Limestone	5
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1575	Ear corn (gr)	1560	Corn or milo	855	Ear corn (gr)	875
50% Supp.	400	50% Supp.	415	Oats	650	Oats	650
Phos. Dical	15	Phos. Dical	15	50% Supp.	470	50% Supp.	450
Limestone	5	Limestone	5	Phos. Dical	15	Phos. Dical	15
T.M. Salt	5	T.M. Salt	5	Limestone	5	Limestone	5
				T. M. Salt	5	T. M. Salt	5
Corn or milo	1445	Ear corn (gr)	1430	Corn or Milo	910	Ear corn (gr)	900
SBM, solv.	485	SBM, solv.	500	Oats	600	Oats	600
Phos. Dical	25	Phos. Dical	25	SBM, solv.	420	SBM, solv.	430
Limestone	25	Limestone	25	Phos. Dical	25	Phos. Dical	25
T.M. Salt	15	T.M. Salt	15	Limestone	25	Limestone	25
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5
Corn or milo	1245	Ear corn (gr)	1225	Corn or Milo	790	Ear corn (gr)	780
Soybeans	680	Soybeans	700	Oats	525	Oats	515
Phos. Dical	30	Phos. Dical	30	Soybeans	610	Soybeans	630
Limestone	25	Limestone	25	Phos. Dical	30	Phos. Dical	30
T.M. Salt	15	T.M. Salt	15	Limestone	25	Limestone	25
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5

GRASS HAY, AV		21 LBS (FREE CHOICE)		Grain Mixes (lb/ton batch): Feeding Schedule H		%CP = 18.4; %Ca = 1.0; %Phos = .52	
Corn or milo	1140	Ear corn (gr)	1120	Corn or milo	730	Ear corn (gr)	725
32% Supp.	860	32% Supp.	880	Oats	490	Oats	480
				32% Supp.	780	32% Supp.	795
Corn or milo	1310	Ear corn (gr)	1290	Corn or milo	830	Ear corn (gr)	820
36% Supp.	680	36% Supp.	700	Oats	560	Oats	550
Limestone	10	Limestone	10	36% Supp.	600	36% Supp.	620
				Limestone	10	Limestone	10
Corn or milo	1335	Ear corn (gr)	1315	Corn or milo	850	Ear corn (gr)	830
40% Supp.	640	40% Supp.	660	Oats	550	Oats	560
Limestone	15	Limestone	15	40% Supp.	570	40% Supp.	585
T.M. Salt	10	T.M. Salt	10	Limestone	15	Limestone	15
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1510	Ear corn (gr)	1500	Corn or milo	950	Ear corn (gr)	940
50% Supp.	470	50% Supp.	480	Oats	630	Oats	620
Phos. Dical	5	Phos. Dical	5	50% Supp.	400	50% Supp.	420
Limestone	5	Limestone	5	Phos. Dical	5	Phos. Dical	5
T. M. Salt	10	T. M. Salt	10	Limestone	5	Limestone	5
				T.M. Salt	10	T.M. Salt	10
Corn or milo	1355	Ear corn (gr)	1340	Corn or Milo	850	Ear corn (gr)	840
SBM, solv.	575	SBM, solv.	590	Oats	565	Oats	560
Phos. Dical	15	Phos. Dical	15	SBM, solv.	515	SBM, solv.	530
Limestone	35	Limestone	35	Phos. Dical	15	Phos. Dical	15
T.M. Salt	15	T.M. Salt	15	Limestone	15	Limestone	15
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5
Corn or milo	1120	Ear corn (gr)	1090	Corn or Milo	710	Ear corn (gr)	700
SBM, solv.	100	SBM, solv.	130	Oats	575	Oats	565
Soybeans	700	Soybeans	700	SBM, solv.	60	SBM, solv.	70
Phos. Dical	20	Phos. Dical	20	Soybeans	700	Soybeans	700
Limestone	40	Limestone	40	Phos. Dical	20	Phos. Dical	20
T.M. Salt	15	T.M. Salt	15	Limestone	40	Limestone	40
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5

GRASS HAYLAGE, AV (60% DM) 31 LBS (FREE CHOICE)

Grain Mixes (lb/ton batch): Feeding Schedule H
 %CP = 18.4; %Ca = 1.0; %Phos = .52

Corn or milo 32% Supp.	1140 860	Ear corn (gr) 32% Supp.	1120 880	Corn or milo Oats 32% Supp.	730 490 780	Ear corn (gr) Oats 32% Supp.	725 480 795
Corn or milo 36% Supp. Limestone	1310 680 10	Ear corn (gr) 36% Supp. Limestone	1290 700 10	Corn or milo Oats 36% Supp. Limestone	830 560 600 10	Ear corn (gr) Oats 36% Supp. Limestone	820 550 620 10
Corn or milo 40% Supp. Limestone T.M. Salt	1335 640 15 10	Ear corn (gr) 40% Supp. Limestone T.M. Salt	1315 660 15 10	Corn or milo Oats 40% Supp. Limestone T. M. Salt	850 550 570 15 10	Ear corn (gr) Oats 40% Supp. Limestone T. M. Salt	830 560 585 15 10
Corn or milo 50% Supp. Phos. Dical Limestone T. M. Salt	1510 470 5 5 10	Ear corn (gr) 50% Supp. Phos. Dical Limestone T. M. Salt	1500 480 5 5 10	Corn or milo Oats 50% Supp. Phos. Dical Limestone T.M. Salt	950 630 400 5 5 10	Ear corn (gr) Oats 50% Supp. Phos. Dical Limestone T.M. Salt	940 620 420 5 5 10
Corn or milo SBM, solv. Phos. Dical Limestone T.M. Salt Vit. A & D	1355 575 15 35 15 5	Ear corn (gr) SBM, solv. Phos. Dical Limestone T.M. Salt Vit. A & D	1340 590 15 35 15 5	Corn or Milo Oats SBM, solv. Phos. Dical Limestone T.M. Salt Vit. A & D	850 565 515 15 15 15 5	Ear corn (gr) Oats SBM, solv. Phos. Dical Limestone T.M. Salt Vit. A & D	840 560 530 15 15 15 5
Corn or milo SBM, solv. Soybeans Phos. Dical Limestone T.M. Salt Vit. A & D	1120 100 700 20 40 15 5	Ear corn (gr) SBM, solv. Soybeans Phos. Dical Limestone T.M. Salt Vit. A & D	1090 130 700 20 40 15 5	Corn or Milo Oats SBM, solv. Soybeans Phos. Dical Limestone T.M. Salt Vit. A & D	710 575 60 700 20 40 15 5	Ear corn (gr) Oats SBM, solv. Soybeans Phos. Dical Limestone T.M. Salt Vit. A & D	700 565 70 700 20 40 15 5

<u>GRASS SILAGE, AV (35% DM)</u>		48 LBS (FREE CHOICE)		<u>Grain Mixes (lb/ton batch):</u> Feeding Schedule H			
<u>ALFALFA HAY, MB</u>		5 LBS		%CP = 18.4; %Ca = 1.0; %Phos = .54			
Corn or milo	1140	Ear corn (gr)	1120	Corn or milo	730	Ear corn (gr)	725
32% Supp.	860	32% Supp.	880	Oats	490	Oats	480
				32% Supp.	780	32% Supp.	795
Corn or milo	1310	Ear corn (gr)	1290	Corn or milo	830	Ear corn (gr)	820
36% Supp.	680	36% Supp.	700	Oats	560	Oats	550
Limestone	10	Limestone	10	36% Supp.	600	36% Supp.	620
				Limestone	10	Limestone	10
Corn or milo	1335	Ear corn (gr)	1315	Corn or milo	850	Ear corn (gr)	830
40% Supp.	640	40% Supp.	660	Oats	550	Oats	560
Limestone	15	Limestone	15	40% Supp.	570	40% Supp.	585
T.M. Salt	10	T.M. Salt	10	Limestone	15	Limestone	15
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1510	Ear corn (gr)	1500	Corn or milo	950	Ear corn (gr)	940
50% Supp.	470	50% Supp.	480	Oats	630	Oats	620
Phos. Dical	5	Phos. Dical	5	50% Supp.	400	50% Supp.	420
Limestone	5	Limestone	5	Phos. Dical	5	Phos. Dical	5
T. M. Salt	10	T. M. Salt	10	Limestone	5	Limestone	5
				T.M. Salt	10	T.M. Salt	10
Corn or milo	1355	Ear corn (gr)	1340	Corn or Milo	850	Ear corn (gr)	840
SBM, solv.	575	SBM, solv.	590	Oats	565	Oats	560
Phos. Dical	15	Phos. Dical	15	SBM, solv.	515	SBM, solv.	530
Limestone	35	Limestone	35	Phos. Dical	15	Phos. Dical	15
T.M. Salt	15	T.M. Salt	15	Limestone	15	Limestone	15
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5
Corn or milo	1120	Ear corn (gr)	1090	Corn or Milo	710	Ear corn (gr)	700
SBM, solv.	100	SBM, solv.	130	Oats	575	Oats	565
Soybeans	700	Soybeans	700	SBM, solv.	60	SBM, solv.	70
Phos. Dical	20	Phos. Dical	20	Soybeans	700	Soybeans	700
Limestone	40	Limestone	40	Phos. Dical	20	Phos. Dical	20
T.M. Salt	15	T.M. Salt	15	Limestone	40	Limestone	40
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5

<u>GRASS HAY, VERY GOOD</u>		26 LBS (FREE CHOICE)		<u>Grain Mixes</u> (lb/ton batch): Feeding Schedule D	
				%CP = 18.4; %Ca = 1.0; %Phos = .52	
Corn or milo	1140	Ear corn (gr)	1120	Corn or milo	730
32% Supp.	860	32% Supp.	880	Oats	490
				32% Supp.	780
Corn or milo	1310	Ear corn (gr)	1290	Corn or milo	830
36% Supp.	680	36% Supp.	700	Oats	560
Limestone	10	Limestone	10	36% Supp.	600
				Limestone	10
Corn or milo	1335	Ear corn (gr)	1315	Corn or milo	850
40% Supp.	640	40% Supp.	660	Oats	550
Limestone	15	Limestone	15	40% Supp.	570
T.M. Salt	10	T.M. Salt	10	Limestone	15
				T. M. Salt	10
Corn or milo	1510	Ear corn (gr)	1500	Corn or milo	950
50% Supp.	470	50% Supp.	480	Oats	630
Phos. Dical	5	Phos. Dical	5	50% Supp.	400
Limestone	5	Limestone	5	Phos. Dical	5
T. M. Salt	10	T. M. Salt	10	Limestone	5
				T.M. Salt	10
Corn or milo	1355	Ear corn (gr)	1340	Corn or Milo	850
SBM, solv.	575	SBM, solv.	590	Oats	565
Phos. Dical	15	Phos. Dical	15	SBM, solv.	515
Limestone	35	Limestone	35	Phos. Dical	15
T.M. Salt	15	T.M. Salt	15	Limestone	15
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15
				Vit. A & D	5
Corn or milo	1120	Ear corn (gr)	1090	Corn or Milo	710
SBM, solv.	100	SBM, solv.	130	Oats	575
Soybeans	700	Soybeans	700	SBM, solv.	60
Phos. Dical	20	Phos. Dical	20	Soybeans	700
Limestone	40	Limestone	40	Phos. Dical	20
T.M. Salt	15	T.M. Salt	15	Limestone	40
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15
				Vit. A & D	5

GRASS HAYLAGE, VERY GOOD (60% DM) 38 LBS (FREE CHOICE) Grain Mixes (lb/ton batch): Feeding Schedule D
 %CP = 18.4; %Ca = 1.0; %Phos = .52

Corn or milo	1140	Ear corn (gr)	1120	Corn or milo	730	Ear corn (gr)	725
32% Supp.	860	32% Supp.	880	Oats	490	Oats	480
				32% Supp.	780	32% Supp.	795
Corn or milo	1310	Ear corn (gr)	1290	Corn or milo	830	Ear corn (gr)	820
36% Supp.	680	36% Supp.	700	Oats	560	Oats	550
Limestone	10	Limestone	10	36% Supp.	600	36% Supp.	620
				Limestone	10	Limestone	10
Corn or milo	1335	Ear corn (gr)	1315	Corn or milo	850	Ear corn (gr)	830
40% Supp.	640	40% Supp.	660	Oats	550	Oats	560
Limestone	15	Limestone	15	40% Supp.	570	40% Supp.	585
T.M. Salt	10	T.M. Salt	10	Limestone	15	Limestone	15
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1510	Ear corn (gr)	1500	Corn or milo	950	Ear corn (gr)	940
50% Supp.	470	50% Supp.	480	Oats	630	Oats	620
Phos. Dical	5	Phos. Dical	5	50% Supp.	400	50% Supp.	420
Limestone	5	Limestone	5	Phos. Dical	5	Phos. Dical	5
T. M. Salt	10	T. M. Salt	10	Limestone	5	Limestone	5
				T.M. Salt	10	T.M. Salt	10
Corn or milo	1355	Ear corn (gr)	1340	Corn or Milo	850	Ear corn (gr)	840
SBM, solv.	575	SBM, solv.	590	Oats	565	Oats	560
Phos. Dical	15	Phos. Dical	15	SBM, solv.	515	SBM, solv.	530
Limestone	35	Limestone	35	Phos. Dical	15	Phos. Dical	15
T.M. Salt	15	T.M. Salt	15	Limestone	15	Limestone	15
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5
Corn or milo	1120	Ear corn (gr)	1090	Corn or Milo	710	Ear corn (gr)	700
SBM, solv.	100	SBM, solv.	130	Oats	575	Oats	565
Soybeans	700	Soybeans	700	SBM, solv.	60	SBM, solv.	70
Phos. Dical	20	Phos. Dical	20	Soybeans	700	Soybeans	700
Limestone	40	Limestone	40	Phos. Dical	20	Phos. Dical	20
T.M. Salt	15	T.M. Salt	15	Limestone	40	Limestone	40
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5

<u>GRASS SILAGE, VERY GOOD</u> (35% DM)		48 LBS (FREE CHOICE)		<u>Grain Mixes</u> (lb/ton batch): Feeding Schedule F			
<u>ALFALFA HAY, MB</u>		5 LBS		%CP = 16.8; %Ca = .88; %Phos = .61			
Corn or milo	1275	Ear corn (gr)	1250	Corn or milo	820	Ear corn (gr)	790
32% Supp.	715	32% Supp.	740	Oats	545	Oats	525
Phos. Dical	10	Phos. Dical	10	32% Supp.	625	32% Supp.	675
				Phos. Dical	10	Phos. Dical	10
Corn or milo	1380	Ear corn (gr)	1290	Corn or milo	875	Ear corn (gr)	860
36% Supp.	610	35% Supp.	700	Oats	590	Oats	580
Phos. Dical	10	Phos. Dical	10	36% Supp.	525	36% Supp.	550
				Phos. Dical	10	Phos. Dical	10
Corn or milo	1435	Ear corn (gr)	1415	Corn or milo	910	Ear corn (gr)	885
40% Supp.	540	40% Supp.	560	Oats	600	Oats	600
Phos. Dical	10	Phos. Dical	10	40% Supp.	465	40% Supp.	490
Limestone	5	Limestone	5	Phos. Dical	10	Phos. Dical	10
T.M. Salt	10	T.M. Salt	10	Limestone	5	Limestone	5
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1575	Ear corn (gr)	1560	Corn or milo	855	Ear corn (gr)	875
50% Supp.	400	50% Supp.	415	Oats	650	Oats	650
Phos. Dical	15	Phos. Dical	15	50% Supp.	470	50% Supp.	450
Limestone	5	Limestone	5	Phos. Dical	15	Phos. Dical	15
T.M. Salt	5	T.M. Salt	5	Limestone	5	Limestone	5
				T. M. Salt	5	T. M. Salt	5
Corn or milo	1445	Ear corn (gr)	1430	Corn or milo	910	Ear corn (gr)	900
SBM, solv.	485	SBM, solv.	500	Oats	600	Oats	600
Phos. Dical	25	Phos. Dical	25	SBM, solv.	420	SBM, solv.	430
Limestone	25	Limestone	25	Phos. Dical	25	Phos. Dical	25
T.M. Salt	15	T.M. Salt	15	Limestone	25	Limestone	25
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5
Corn or milo	1245	Ear corn (gr)	1225	Corn or milo	790	Ear corn (gr)	780
Soybeans	680	Soybeans	700	Oats	525	Oats	515
Phos. Dical	30	Phos. Dical	30	Soybeans	610	Soybeans	630
Limestone	25	Limestone	25	Phos. Dical	30	Phos. Dical	30
T.M. Salt	15	T.M. Salt	15	Limestone	25	Limestone	25
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5

PASTURE, FAIR
ALFALFA HAY, MB

Free Choice
7 LBS

Grain Mixes (lb/ton batch): Feeding Schedule I
%CP = 16.5; %Ca = .67; %Phos = .50

Corn or milo 32% Supp.	1315 685	Ear corn (gr) 32% Supp.	1290 710	Corn or milo Oats 32% Supp.	845 565 590	Ear corn (gr) Oats 32% Supp.	835 555 610
Corn or milo 36% Supp. Limestone	1425 570 5	Ear corn (gr) 36% Supp. Limestone	1400 595 5	Corn or milo Oats 36% Supp. Limestone	810 605 480 5	Ear corn (gr) Oats 36% Supp. Limestone	900 600 495 5
Corn or milo 40% Supp. Limestone T.M. Salt	1540 440 10 10	Ear corn (gr) 40% Supp. Limestone T.M. Salt	1515 465 10 10	Corn or milo Oats 40% Supp. Limestone T. M. Salt	970 650 360 10 10	Ear corn (gr) Oats 40% Supp. Limestone T. M. Salt	965 640 375 10 10
Corn or milo 50% Supp. Phos. Dical T.M. Salt	1600 380 10 10	Ear corn (gr) 50% Supp. Phos. Dical T.M. Salt	1590 390 10 10	Corn or milo Oats 50% Supp. Phos. Dical T. M. Salt	1000 670 310 10 10	Ear corn (gr) Oats 50% Supp. Phos. Dical T. M. Salt	990 660 330 10 10
Corn or milo SBM, solv. Phos. Dical Limestone T.M. Salt Vit. A & D	1475 460 15 30 15 5	Ear corn (gr) SBM, solv. Phos. Dical Limestone T.M. Salt Vit. A & D	1445 490 15 30 15 5	Corn or Milo Oats SBM, solv. Phos. Dical Limestone T.M. Salt Vit. A & D	950 630 355 15 30 15 5	Ear corn (gr) Oats SBM, solv. Phos. Dical Limestone T.M. Salt Vit. A & D	920 610 405 15 30 15 5
Corn or milo Soybeans Phos. Dical Limestone T.M. Salt Vit. A & D	1370 565 15 30 15 5	Ear corn (gr) Soybeans Phos. Dical Limestone T.M. Salt Vit. A & D	1350 585 15 30 15 5	Corn or Milo Oats Soybeans Phos. Dical Limestone T.M. Salt Vit. A & D	875 575 485 15 30 15 5	Ear corn (gr) Oats Soybeans Phos. Dical Limestone T.M. Salt Vit. A & D	860 565 510 15 30 15 5

<u>PASTURE, GOOD</u>		Free Choice		<u>Grain Mixes</u> (lb/ton batch): Feeding Schedule F			
<u>ALFALFA HAY, MB</u>		7 Lbs		%CP = 16.8; %Ca = .88; %Phos = .61			
Corn or milo	1275	Ear corn (gr)	1250	Corn or milo	820	Ear corn (gr)	790
32% Supp.	715	32% Supp.	740	Oats	545	Oats	525
Phos. Dical	10	Phos. Dical	10	32% Supp.	625	32% Supp.	675
				Phos. Dical	10	Phos. Dical	10
Corn or milo	1380	Ear corn (gr)	1290	Corn or milo	875	Ear corn (gr)	860
36% Supp.	610	36% Supp.	700	Oats	590	Oats	580
Phos. Dical	10	Phos. Dical	10	36% Supp.	525	36% Supp.	550
				Phos. Dical	10	Phos. Dical	10
Corn or milo	1435	Ear corn (gr)	1415	Corn or milo	910	Ear corn (gr)	885
40% Supp.	540	40% Supp.	560	Oats	600	Oats	600
Phos. Dical	10	Phos. Dical	10	40% Supp.	465	40% Supp.	490
Limestone	5	Limestone	5	Phos. Dical	10	Phos. Dical	10
T.M. Salt	10	T.M. Salt	10	Limestone	5	Limestone	5
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1575	Ear corn (gr)	1560	Corn or milo	855	Ear corn (gr)	875
50% Supp.	400	50% Supp.	415	Oats	650	Oats	650
Phos. Dical	15	Phos. Dical	15	50% Supp.	470	50% Supp.	450
Limestone	5	Limestone	5	Phos. Dical	15	Phos. Dical	15
T.M. Salt	5	T.M. Salt	5	Limestone	5	Limestone	5
				T. M. Salt	5	T. M. Salt	5
Corn or milo	1445	Ear corn (gr)	1430	Corn or Milo	910	Ear corn (gr)	900
SBM, solv.	485	SBM, solv.	500	Oats	600	Oats	600
Phos. Dical	25	Phos. Dical	25	SBM, solv.	420	SBM, solv.	430
Limestone	25	Limestone	25	Phos. Dical	25	Phos. Dical	25
T.M. Salt	15	T.M. Salt	15	Limestone	25	Limestone	25
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5
Corn or milo	1245	Ear corn (gr)	1225	Corn or Milo	790	Ear corn (gr)	780
Soybeans	680	Soybeans	700	Oats	525	Oats	515
Phos. Dical	30	Phos. Dical	30	Soybeans	610	Soybeans	630
Limestone	25	Limestone	25	Phos. Dical	30	Phos. Dical	30
T.M. Salt	15	T.M. Salt	15	Limestone	25	Limestone	25
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5

PASTURE, EXCELLENT
ALFALFA HAY, MB

Free Choice
7 Lbs

Grain Mixes (lb/ton batch): Feeding Schedule D
%CP = 13.4; %Ca = .7; %Phos = .46

Corn or milo	1555	Ear corn (gr)	1525	Corn or milo	1000	Ear corn (gr)	985
32% Supp.	430	32% Supp.	460	Oats	665	Oats	660
Phos. Dicl	5	Phos. Dical	5	32% Supp.	320	32% Supp.	340
Limestone	5	Limestone	5	Phos. Dical	5	Phos. Dical	5
T.M. Salt	5	T.M. Salt	5	Limestone	5	Limestone	5
				T. M. Salt	5	T. M. Salt	5
Corn or milo	1620	Ear corn (gr)	1600	Corn or milo	1030	Ear corn (gr)	1015
36% Supp.	350	36% Supp.	370	Oats	690	Oats	675
Phos. Dical	10	Phos. Dical	10	36% Supp.	250	36% Supp.	280
Limestone	10	Limestone	10	Phos. Dical	10	Phos. Dical	10
T.M. Salt	10	T.M. Salt	10	Limestone	10	Limestone	10
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1650	Ear corn (gr)	1625	Corn or milo	1035	Ear corn (gr)	1030
40% Supp.	320	40% Supp.	345	Oats	700	Oats	690
Phos. Dical	10	Phos. Dical	10	40% Supp.	235	40% Supp.	250
Limestone	10	Limestone	10	Phos. Dical	10	Phos. Dical	10
T.M. Salt	10	T.M. Salt	10	Limestone	10	Limestone	10
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1730	Ear corn (gr)	1715	Corn or milo	1085	Ear corn (gr)	1070
50% Supp.	240	50% Supp.	255	Oats	720	Oats	715
Phos. Dical	10	Phos. Dical	10	50% Supp.	165	50% Supp.	185
Limestone	10	Limestone	10	Phos. Dical	10	Phos. Dical	10
T.M. Salt	10	T.M. Salt	10	Limestone	10	Limestone	10
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1650	Ear corn (gr)	1630	Corn or Milo	1035	Ear corn (gr)	1025
SBM, solv.	290	SBM, solv.	310	Oats	690	Oats	685
Phos. Dical	15	Phos. Dical	15	SBM, solv.	215	SBM, solv.	230
Limestone	25	Limestone	25	Phos. Dical	15	Phos. Dical	15
T.M. Salt	15	T.M. Salt	15	Limestone	25	Limestone	25
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5
Corn or milo	1575	Ear corn (gr)	1550	Corn or Milo	1000	Ear corn (gr)	985
Soybeans	365	Soybeans	390	Oats	665	Oats	655
Phos. Dical	15	Phos. Dical	15	Soybeans	275	Soybeans	300
Limestone	25	Limestone	25	Phos. Dical	15	Phos. Dical	15
T.M. Salt	15	T.M. Salt	15	Limestone	25	Limestone	25
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5

SMALL GRAIN HAY, DOUGH

24 LBS

Grain Mixes (lb/ton batch): Feeding Schedule E

%CP = 18.7; %Ca = 1.1; %Phos = .54

Corn or milo	1240	Ear corn (gr)	1220	Corn or milo	790	Ear corn (gr)	775
36% Supp.	750	36% Supp.	770	Oats	530	Oats	520
Limestone	10	Limestone	10	36% Supp.	670	36% Supp.	695
				Limestone	10	Limestone	10
Corn or milo	1310	Ear corn (gr)	1330	Corn or milo	825	Ear corn (gr)	820
40% Supp.	665	40% Supp.	645	Oats	550	Oats	545
Limestone	15	Limestone	15	40% Supp.	600	40% Supp.	610
T.M. Salt	10	T.M. Salt	10	Limestone	15	Limestone	15
				Limestone	10	Limestone	10
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1495	Ear corn (gr)	1485	Corn or milo	935	Ear corn (gr)	925
50% Supp.	490	50% Supp.	500	Oats	625	Oats	615
Phos. Dical	5	Phos. Dical	5	50% Supp.	425	50% Supp.	445
Limestone	5	Limestone	5	Phos. Dical	5	Phos. Dical	5
T.M. Salt	5	T.M. Salt	5	Limestone	5	Limestone	5
				T. M. Salt	5	T. M. Salt	5
Corn or milo	1320	Ear corn (gr)	1305	Corn or Milo	825	Ear corn (gr)	815
SBM, solv.	600	SBM, solv.	615	Oats	550	Oats	555
Phos. Dical	20	Phos. Dical	20	SBM, solv.	545	SBM, solv.	550
Limestone	40	Limestone	40	Phos. Dical	20	Phos. Dical	20
T.M. Salt	15	T.M. Salt	15	Limestone	40	Limestone	40
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5
Corn or milo	1065	Ear corn (gr)	1055	Corn or Milo	675	Ear corn (gr)	670
SBM, solv.	150	SBM, solv.	160	Oats	440	Oats	435
Soybeans	700	Soybeans	700	SBM, solv.	100	SBM, solv.	110
Phos. Dical	25	Phos. Dical	25	Soybeans	700	Soybeans	700
Limestone	40	Limestone	40	Phos. Dical	25	Phos. Dical	25
T.M. Salt	15	T.M. Salt	15	Limestone	40	Limestone	40
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5

SMALL GRAIN HAYLAGE, DOUGE (60% DM) 36 LBS

Grain Mixes (lb/ton batch): Feeding Schedule E
 %CP = 18.7; %Ca = 1.1; %Phos = .54

Rations with 32% supplement were omitted due to possible palatability problems

Corn or milo 1240	Ear corn (gr) 1220	Corn or milo 790	Ear corn (gr) 775
36% Supp. 750	36% Supp. 770	Oats 530	Oats 520
Limestone 10	Limestone 10	36% Supp. 670	36% Supp. 695
		Limestone 10	Limestone 10
Corn or milo 1310	Ear corn (gr) 1330	Corn or milo 825	Ear corn (gr) 820
40% Supp. 665	40% Supp. 645	Oats 550	Oats 545
Limestone 15	Limestone 15	40% Supp. 600	40% Supp. 610
T.M. Salt 10	T.M. Salt 10	Limestone 15	Limestone 15
		Limestone 10	Limestone 10
		T. M. Salt 10	T. M. Salt 10
Corn or milo 1495	Ear corn (gr) 1485	Corn or milo 935	Ear corn (gr) 925
50% Supp. 490	50% Supp. 500	Oats 625	Oats 615
Phos. Dical 5	Phos. Dical 5	50% Supp. 425	50% Supp. 445
Limestone 5	Limestone 5	Phos. Dical 5	Phos. Dical 5
T.M. Salt 5	T.M. Salt 5	Limestone 5	Limestone 5
		T. M. Salt 5	T. M. Salt 5
Corn or milo 1320	Ear corn (gr) 1305	Corn or Milo 825	Ear corn (gr) 815
SBM, solv. 600	SBM, solv. 615	Oats 550	Oats 555
Phos. Dical 20	Phos. Dical 20	SBM, solv. 545	SBM, solv. 550
Limestone 40	Limestone 40	Phos. Dical 20	Phos. Dical 20
T.M. Salt 15	T.M. Salt 15	Limestone 40	Limestone 40
Vit. A & D 5	Vit. A & D 5	T.M. Salt 15	T.M. Salt 15
		Vit. A & D 5	Vit. A & D 5
Corn or milo 1065	Ear corn (gr) 1055	Corn or Milo 675	Ear corn (gr) 670
SBM, solv. 150	SBM, solv. 160	Oats 440	Oats 435
Soybeans 700	Soybeanscal 700	SBM, solv. 100	SBM, solv. 110
Phos. Dical 25	Phos. Dical 25	Soybeans 700	Soybeans 700
Limestone 40	Limestone 40	Phos. Dical 25	Phos. Dical 25
T.M. Salt 15	T.M. Salt 15	Limestone 40	Limestone 40
Vit. A & D 5	Vit. A & D 5	T.M. Salt 15	T.M. Salt 15
		Vit. A & D 5	Vit. A & D 5

<u>SMALL GRAIN SILAGE, DOUGH</u>		40 LBS	<u>Grain Mixes</u> (lb/ton batch): Feeding Schedule F				
<u>ALFALFA HAY, MB</u>		7 LBS	%CP = 16.4; %Ca = .83; %Phos = .50				
Corn or milo	1315	Ear corn (gr)	1290	Corn or milo	845	Ear corn (gr)	835
32% Supp.	685	32% Supp.	710	Oats	565	Oats	555
				32% Supp.	590	32% Supp.	610
Corn or milo	1425	Ear corn (gr)	1400	Corn or milo	810	Ear corn (gr)	900
36% Supp.	570	36% Supp.	595	Oats	605	Oats	600
Limestone	5	Limestone	5	36% Supp.	480	36% Supp.	495
				Limestone	5	Limestone	5
Corn or milo	1540	Ear corn (gr)	1515	Corn or milo	970	Ear corn (gr)	965
40% Supp.	440	40% Supp.	465	Oats	650	Oats	640
Limestone	10	Limestone	10	40% Supp.	360	40% Supp.	375
T.M. Salt	10	T.M. Salt	10	Limestone	10	Limestone	10
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1600	Ear corn (gr)	1590	Corn or milo	1000	Ear corn (gr)	990
50% Supp.	380	50% Supp.	390	Oats	670	Oats	660
Phos. Dical	10	Phos. Dical	10	50% Supp.	310	50% Supp.	330
T.M. Salt	10	T.M. Salt	10	Phos. Dical	10	Phos. Dical	10
				T. M. Salt	10	T. M. Salt	10
Corn or milo	1475	Ear corn (gr)	1445	Corn or Milo	950	Ear corn (gr)	920
SBM, solv.	460	SBM, solv.	490	Oats	630	Oats	610
Phos. Dical	15	Phos. Dical	15	SBM, solv.	355	SBM, solv.	405
Limestone	30	Limestone	30	Phos. Dical	15	Phos. Dical	15
T.M. Salt	15	T.M. Salt	15	Limestone	30	Limestone	30
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5
Corn or milo	1370	Ear corn (gr)	1350	Corn or Milo	875	Ear corn (gr)	860
Soybeans	565	Soybeans	585	Oats	575	Oats	565
Phos. Dical	15	Phos. Dical	15	Soybeans	485	Soybeans	510
Limestone	30	Limestone	30	Phos. Dical	15	Phos. Dical	15
T.M. Salt	15	T.M. Salt	15	Limestone	30	Limestone	30
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5

<u>SORGO SILAGE</u> (35% DM)		30 LBS Free Choice		<u>Grain Mixes</u> (lb/ton batch): Feeding Schedule G			
<u>ALFALFA HAY, MB</u>		8 LBS		%CP = 15.7; %Ca = .64; %Phos = .48			
Corn or milo	1380	Ear corn (gr)	1355	Corn or milo	890	Ear corn (gr)	875
32% Supp.	615	32% Supp.	640	Oats	590	Oats	580
Phos. Dical	5	Phos. Dical	5	32% Supp.	515	32% Supp.	540
				Phos. Dical	5	Phos. Dical	5
Corn or milo	1480	Ear corn (gr)	1455	Corn or milo	940	Ear corn (gr)	925
36% Supp.	515	36% Supp.	540	Oats	630	Oats	620
Phos. Dical	5	Phos. Dical	5	36% Supp.	425	36% Supp.	450
				Phos. Dical	5	Phos. Dical	5
Corn or milo	1525	Ear corn (gr)	1500	Corn or milo	965	Ear corn (gr)	955
40% Supp.	460	40% Supp.	485	Oats	640	Oats	635
Phos. Dical	5	Phos. Dical	5	40% Supp.	380	40% Supp.	395
T.M. Salt	10	T.M. Salt	10	Phos. Dical	5	Phos. Dical	5
				T.M. Salt	10	T.M. Salt	10
Corn or milo	1645	Ear corn (gr)	1630	Corn or milo	1030	Ear corn (gr)	1015
50% Supp.	340	50% Supp.	255	Oats	685	Oats	680
Phos. Dical	5	Phos. Dical	5	50% Supp.	270	50% Supp.	290
T.M. Salt	10	T.M. Salt	10	Phos. Dical	05	Phos. Dical	5
				T.M. Salt	10	T.M. Salt	10
Corn or milo	1530	Ear corn (gr)	1510	Corn or Milo	960	Ear corn (gr)	950
SBM, solv.	415	SBM, solv.	435	Oats	640	Oats	635
Phos. Dical	15	Phos. Dical	15	SBM, solv.	345	SBM, solv.	360
Limestone	20	Limestone	20	Phos. Dical	15	Phos. Dical	15
T.M. Salt	15	T.M. Salt	15	Limestone	20	Limestone	20
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5
Corn or milo	1425	Ear corn (gr)	1400	Corn or Milo	905	Ear corn (gr)	890
Soybeans	520	Soybeans	545	Oats	600	Oats	595
Phos. Dical	20	Phos. Dical	20	Soybeans	440	Soybeans	460
Limestone	15	Limestone	15	Phos. Dical	20	Phos. Dical	20
T.M. Salt	15	T.M. Salt	15	Limestone	15	Limestone	15
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5

<u>SORGO SILAGE</u> (35% DM)		35 LBS	<u>Grain Mixes</u> (lb/ton batch): Feeding Schedule G				
<u>ALFALFA HAY, IM</u>		10 LBS	%CP = 14.3; %Ca = .7; %Phos = .5				
Corn or milo	1480	Ear corn (gr)	1455	Corn or milo	950	Ear corn (gr)	935
32% Supp.	505	32% Supp.	530	Oats	635	Oats	630
Phos. Dical	10	Phos. Dical	10	32% Supp.	400	32% Supp.	420
T.M. Salt	5	T.M. Salt	5	Phos. Dical	10	Phos. Dical	10
				T.M. Salt	5	T.M. Salt	5
Corn or milo	1560	Ear corn (gr)	1535	Corn or milo	1000	Ear corn (gr)	980
36% Supp.	425	36% Supp.	450	Oats	665	Oats	650
Phos. Dical	10	Phos. Dical	10	36% Supp.	320	36% Supp.	355
T.M. Salt	5	T.M. Salt	5	Phos. Dical	10	Phos. Dical	10
				T.M. Salt	5	T.M. Salt	5
Corn or milo	1610	Ear corn (gr)	1585	Corn or milo	1020	Ear corn (gr)	1000
40% Supp.	375	40% Supp.	450	Oats	675	Oats	670
Phos. Dical	10	Phos. Dical	10	40% Supp.	290	40% Supp.	315
T.M. Salt	5	T.M. Salt	5	Phos. Dical	10	Phos. Dical	10
				T.M. Salt	5	T.M. Salt	5
Corn or milo	1700	Ear corn (gr)	1685	Corn or milo	1065	Ear corn (gr)	1055
50% Supp.	285	50% Supp.	300	Oats	710	Oats	700
Phos. Dical	10	Phos. Dical	10	50% Supp.	210	50% Supp.	230
T.M. Salt	5	T.M. Salt	5	Phos. Dical	10	Phos. Dical	10
				T.M. Salt	5	T.M. Salt	5
Corn or milo	1620	Ear corn (gr)	1600	Corn or Milo	1015	Ear corn (gr)	1005
SBM, solv.	335	SBM, solv.	355	Oats	675	Oats	670
Phos. Dical	20	Phos. Dical	20	SBM, solv.	265	SBM, solv.	280
Limestone	5	Limestone	5	Phos. Dical	20	Phos. Dical	20
T.M. Salt	15	T.M. Salt	15	Limestone	5	Limestone	5
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5
Corn or milo	1540	Ear corn (gr)	1510	Corn or Milo	980	Ear corn (gr)	960
Soybeans	415	Soybeans	445	Oats	650	Oats	640
Phos. Dical	25	Phos. Dical	25	Soybeans	325	Soybeans	355
T.M. Salt	15	T.M. Salt	15	Phos. Dical	25	Phos. Dical	25
Vit. A & D	5	Vit. A & D	5	T.M. Salt	15	T.M. Salt	15
				Vit. A & D	5	Vit. A & D	5