

Paul Sundberg

Sexing Technology, USA

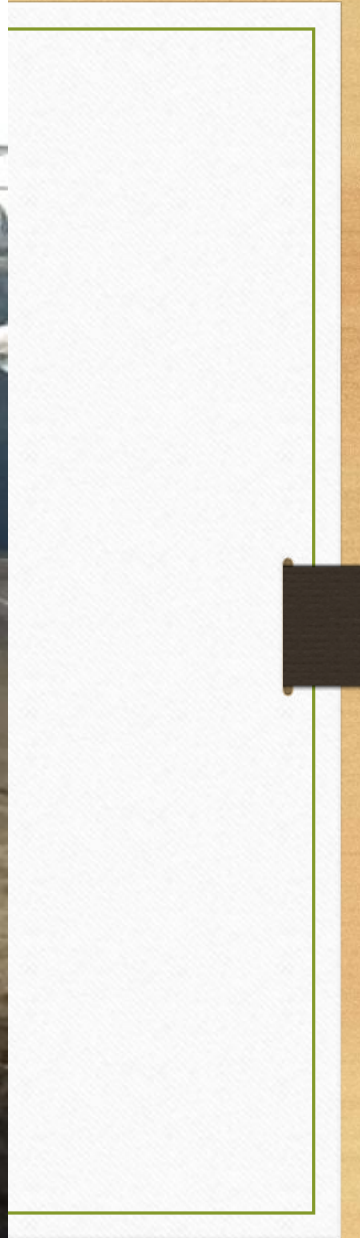


Euroopa Maaelu Arengu
Põllumajandusfond:
Euroopa investeeringud
maapiirkondadesse









*Dry Cow Management is
the single most important
phase of production*

Dry Cow Programs, A new look at the old way!

In North America there has been a failure of the transition period

Rules that still apply

- Nutrition
- Dry Cow program
- Cow Comfort
- Reproduction
- People get everything done above!
- Forage quality

**It's a Matter of Too Little or
Too Much!**

Or how do we get it just right?

Too Much

- **Body Condition**
- **Weight Loss in Dry Pen**
- **Time in the Dry Pen**
- **Energy**
- **Too Many Lactations**
- **Twins / Triplets**
 - **Grain**
- **Overcrowding**
- **Excess Soluble Protein**

Too Little

- **Body Condition**
- **Time in the Dry Pen**
- **Selenium**
- **Cow Comfort**
- **DMI**
- **Fiber**
- **Protein**
- **Magnesium**

Too Much.....Too Little

Too Much.....Too Little

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 - **Weight Loss in Dry Pen**
 - **Time in the Dry Pen**
 - **Energy**
 - **Too Many Lactations**
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 - **Grain**
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- **Body Condition**
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 - **Selenium**
 - **DMI**
 - **Fiber**
 - **Protein**
 - **Magnesium**

Feeding the Dry Cow The “goldilocks” diet!

Dr. Gordie Jones Partner Central Sands Dairy LLC

Nutrition - Ration

**Consistency
and routine**

Feed quality

Cows

**Cow
comfort**

People and performance

Ration

```
graph LR; A[Consistency and routine] --> E[Ration]; B[Feed quality] --> E; C[Cows] --> E; D[Cow comfort] --> E; F[People and performance] --> E;
```

The diagram illustrates the components that influence a ration. Five factors are listed on the left: Consistency and routine, Feed quality, Cows, Cow comfort, and People and performance. Each factor has a green arrow pointing towards a central node labeled 'Ration' on the right. The arrows from 'Consistency and routine' and 'Feed quality' are the longest, while the arrow from 'Cows' is the shortest. The arrows from 'Cow comfort' and 'People and performance' are of intermediate length.

**Across the US there has been a failure
of the transition period.**

So what have we tried?

Dry - Fresh Cow Programs

- Close-up programs
- Steam-up programs
 - “10-day” programs
- Drenching programs
- Calcium Boluses
- BHB testing
- Short Dry Cow Period
- No Dry Cow Period
- Multiple Milkings
- Once a day Milkings

Goldilocks Dry Cow Program

- Comfort
- Lower the Energy - High Fiber
- Refer to Jim Drackley's work

<http://wdmc.org/2007/drackley.pdf>

Displaced Abomasums

- US Dairy Industry
- Most Dairies have a goal of 4-6%
- Less than 1% is very achievable!

Событие	Всего	январь19	фев19	мар19	апр19	май19	июн19	июл19	авг19	сен19	окт**	ноя18	дек18
FRESH	2516	183	160	218	196	160	208	224	350	268	169	173	207
OK	1	0	0	0	0	0	0	0	0	0	1	0	0
HEAT	2049	165	120	137	130	198	139	205	202	260	198	142	153
BRED	5095	352	330	406	425	476	441	497	544	487	382	394	361
PREG	1697	164	124	180	163	159	147	163	187	47	50	157	156
OPEN	2671	176	193	205	230	301	278	298	333	154	102	223	178
PREV	167	6	16	21	11	32	28	11	4	9	15	9	5
MOVE	12089	891	833	726	1176	953	1019	894	1646	1303	1010	673	965
BULLPEN	331	56	31	44	19	20	3	16	48	15	10	23	46
DRY	1469	112	124	93	103	146	109	143	117	133	152	109	128
ABORT	248	20	23	24	16	22	21	20	27	19	21	17	18
DNB	114	9	9	4	6	2	15	15	32	14	2	4	2
SOLD	660	60	54	50	69	95	33	48	59	59	39	46	48
CHECK	128	9	14	12	4	13	9	9	11	13	16	10	8
EYES	15	0	0	0	0	0	1	8	0	6	0	0	0
FOOTRIM	5256	477	120	249	517	559	444	494	368	404	480	542	602
ENDMRT	3685	244	245	425	400	329	463	414	344	289	144	106	282
MASTVAC	383	0	0	0	0	0	0	0	0	0	122	109	152
VACC	2151	121	124	262	238	310	119	83	329	324	24	82	135
CYSTIC	53	8	3	4	3	5	3	2	5	1	6	4	9
DA	40	3	4	3	5	7	2	2	2	0	5	3	4
MILL1	1	0	0	0	1	0	0	0	0	0	0	0	0
LAME	1597	147	80	75	127	86	67	128	136	186	181	186	198
MAST	2275	212	162	186	179	110	145	151	230	162	218	272	248
ENTRT	6	3	0	0	0	0	0	0	0	0	3	0	0
WEIGHT	11	0	0	0	0	0	0	1	10	0	0	0	0
PNEU	20	1	2	6	1	0	1	0	0	3	3	2	1
RP	126	11	12	11	3	8	2	27	16	12	7	4	13
EMCULL	287	36	27	20	28	21	15	22	23	27	13	26	29
DRYVACC	1219	137	77	114	126	113	59	136	84	83	96	91	103
SALM	1	0	0	0	0	0	1	0	0	0	0	0	0

Событие	Всего
FRESH	2516
OK	1
HEAT	2049
BRED	5095
PREG	1697
OPEN	2671
PREV	167
MOVE	12089
BULLPEN	331
DRY	1469
ABORT	248
DNB	114
SOLD	660
CHECK	128
EYES	15
FOOTRIM	5256
ENDMRT	3685
MASTVAC	383
VACC	2151
CYSTIC	53
DA	40
MILL1	1
LAME	1597
MAST	2275
ENTRT	6
WEIGHT	11
PNEU	20
RP	126

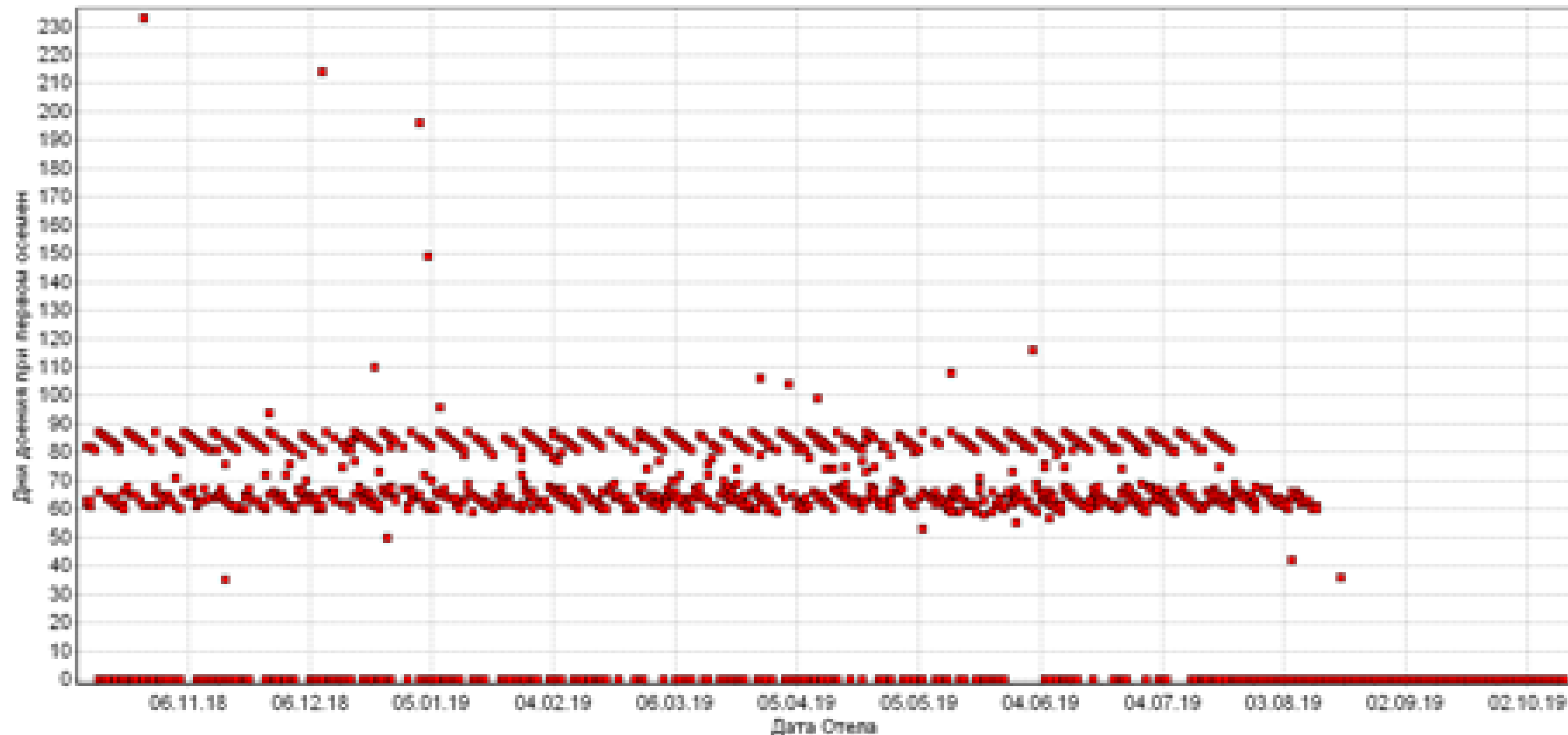
DA'S 1.6%

RP'S 5%

FDAT>-366 LACT>0\BZL

12/10/19 Золоты Нивы

GRAPH %71.5.1.BRND1 BY FDAT FOR FDAT>-366 LACT>0BZL



Too Much

- **Body Condition**
- **Weight Gain in Dry Pen**
 - **Time in the Dry Pen**
- **Energy & Grain**
- **One Lactation to many**
- **Twins / Triplets**
- **Overcrowding**
- **Excess Soluble Protein**
- **Potassium**
- **Molds & Mycotoxins**

General Dry Cow Ration Guidelines

- No more than 8# DM (3.6Kg) of Corn Silage
- 4-6# (2Kg -3.5) dry straw (high quality, low energy) **MUST** be **CHOPPED** short
- **All the grain needed will come from Corn Silage (Depending on the starch levels)**
- No sorting!!
- When it fails.....**LOWER** the energy!!
- Yes, these do not add up to 26#! (12Kg)

DMI with Low Energy, High Fiber, Dry Cow Diets

- **Far Off Cows 28-32# (12-13Kg) DMI**
- **Close-Up Cows 27-29# DMI (12.2kg. To 13.2kg./ day)**
- **Dry Cows .60mcal x 28 # = 16.8 Mega Cal**
- **1.32 x 12.5 = 16.5**
- **Well above NRC of 14.5 Mega Cal**

DMI On Ration Changes from Milk to Dry Cow Ration

- Dry Cow Ration 50%NDF ~100% Forage
- Dry Cow 26# DMI @ 50% NDF = **13# NDF**
- Dry Cow 12 Kg DMI @ 50% NDF = **6 kg NDF**
- Dry Cow .60 NeL *26# = 15.6 Mcals (1.32/kg)
- Milk Cow 50#DMI 26% NDF-f = 13# NDF
- Milk Cow 23Kg DMI 26% NDF-f = **6Kg NDF**
- Milk Cow 50#DMI .80 NeL = **40 Mcals**

Dry Cow - SPECIFICATIONS

- DMI 26-30 lb/day
- CP 13.5-15.5%
- Protein @ least 1200 g of MP
- Ne L .58-.62 Mcal/lb Ne L 1.32 Mcal/Kg
- NDF 40-50%
- NDF forage, min. 40-44%
- NFC >26% NDF Forage (same as milk cow!) 12-13#

This ration works very well for cows that are dry for more than 70 days

Close-Up Feeding Troubleshooting

Goals Feed Bulky Forages,
Adequate Pe-NDF Exercise the Cows Cow
Comfort -
Well Bedded Pack or Stalls
Adequate Quality Water Bunk Space ~
2 Feet Per Head

Close-up Management Troubleshooting

Acidosis Prone Ration

Low Protein & Protein Quality

Excess Soluble Protein

Low Magnesium Levels –

High K

Added Phos

Too Much Energy

Dry Cow - SPECIFICATIONS

DMI	26-32 lb/day
DMI	11-13 Kg/day
Phos	40g
Ca	125-150g
Mg	>.36% (.40)
K	As low as Poss. (DCAD-)
Mg/K	1/4
NDF Forage (same as milk cow!)	
13#	
At least 1000 g of MP	

Rumensin all rations at 320mg to the lowest intake cow

Close-Up Management Troubleshooting

- **Common Pitfalls**
- **Sorting !!!! # 1 problem !!!**
- **Poor Quality Forages are Fed**
- **Mold & Mycotoxins A Problem**
- **Excess Potassium,**
- **No Forage Wet Chem Mineral Analysis**
- **Slug Feeding/No TMR Delivery System**
- **Over Crowding**



ECON\IR

12/10/19 Zolotay Niva



*Dry Cow Management is
the single most important
phase of production*



