

# Primer

Prvotelka u ranoj laktaciji posle  
avansa (visoka proizvodnja)

# Prvi korak

- Sa linka preuzeti simulaciju inputa za prvotelke u 50-150 dana laktacije u zip formatu
- Raspakovati sadržaji zip fajla na desktop.
- Pokrenuti NRC
- Učitati simulaciju u NRC.

# Provera osnovnih postavki simulacije

NRC Nutrient Requirements of Dairy Cattle v. 1.1.9 - 002VisokaProizvodnjaRESENJEbezMinerala

File Go To... Help

Inputs Feeds Ration Reports Help

**Program Settings**

**Units**

Metric

English

**Basis**

Dry Matter

As Fed

**Comments**

**Animal Description**

**Report Headers/Footers**

**Header Text**

Left [ ]

Center Long Date

Right [ ]

**Footer Text**

Left [ ]

Center Page Number

Right [ ]

**Default Zoom**

75%

**Production**

**Ration Results**

Entered Milk Production [ ]

Energy Allowable Milk [ ]

MP Allowable Milk [ ]

NEI Balance [ ]

Days To Change 1 Condition Score [ ]

RDP Balance [ ]

MP Balance [ ]

Diet NEI [ ]

Diet CP [ ]

Predicted Dry Matter Intake [ ]

Use Default Results Based on Animal Type

**Management/Environment**

# Postavke parametara krave

NRC Nutrient Requirements of Dairy Cattle v. 1.1.9 - 002VisokaProizvodnjaRESENJEbezMinerala

File Go To... Help

Inputs Feeds Ration Reports Help

Program Settings **Animal Description** Production Management/Environment

<b>Animal Type</b>	<input type="text" value="Lactating Cow"/>		
<b>Age</b>	<input type="text" value="30 months"/>	<b>Lactation Number</b>	<input type="text" value="1"/>
<b>Body Weight</b>	<input type="text" value="600 kg"/>	<b>Age At First Calving</b>	<input type="text" value="25 months"/>
<b>Days Pregnant</b>	<input type="text" value="30 days"/>	<b>Calving Interval</b>	<input type="text" value="13 months"/>
<b>Condition Score</b>	<input type="text" value="2.8"/>		
<b>Days In Milk</b>	<input type="text" value="120"/>		

**Calf Variables**

<b>Body Weight</b>	<input type="text" value="N/A"/>
<b>Temperature</b>	<input type="text" value="N/A"/>

# Postavke proizvodnih parametara krave

NRC Nutrient Requirements of Dairy Cattle v. 1.1.9 - 002VisokaProizvodnjaRESENJEbezMinerala

File Go To... Help

Inputs Feeds Ration Reports Help

Program Settings Animal Description **Production** Management/Environment

**Mature Weight**    
Compute Mature Weight from the Breed

**Animal Breed**

Ayrshire  
Brown Swiss  
Guernsey  
Holstein

**Calf Birth Weight**    
Compute Calf Birth Weight from the Mature Weight

**Milk Production**

**Milk Fat**

**Milk Protein**

**Crude Protein**   
**True Protein**

**Lactose**

# Izbor i količine kabastih hraniva

<b>HRANIVO</b>	<b>Kg/dan</b>
Seno lucerke, srednji kvalitet	2
Senaza lucerke, srednji kvalitet	6
Kukuruzna silaza, prosecan kvalitet	26

# Sporedni proizvodi industrije šećera

- Melasa secerne repe: 2 kg/dan
- Suvi repin rezanac: 2 kg/dan

# Koncentrovana hraniva na bazi žitarica

<b>HRANIVO</b>	<b>Kg/dan</b>
Prekrupa zrna kukuruza	2.8
Mleveni klip kukuruza	0
Mlevena kocanka kukuruza	0
Jecam, gnjeceno zrno	0.5

# Uljarice i njihovi sporedni proizvodi

<b>HRANIVO</b>	<b>Kg/dan</b>
Sojina sacma, 48% UP	0.5
Suncokretova sacma	0.25
Sojin griz	1.8

# Sporedni proizvodi pivarske industrije

- Sirovi pivski treber: 4 kg

# Sporedni proizvodi industrije skroba

- Kukukruzno glutensko hranivo: 0.8 kg/dan
- Suvi kukuruzni gluten: 0 kg/dan



**Ration List (As-Fed Basis)**

Feed Name	Qty. (kg/day)	% Tot ^
1. Seno lucerke, srednji kvalitet, Praksa, Juni 2024	2.000	4.09 %
2. Senaza lucerke, srednji kvalitet, Praksa, Juni 2024	6.000	12.28 %
3. Kukuruzna silaza, prosecan kvalitet, Praksa, Juni 2024	26.000	53.22 %
4. Melasa secerne repe, Praksa, Juni 2024	2.000	4.09 %
5. Suvi repin rezanac, Praksa, Juni 2024	2.000	4.09 %
6. Prekrupa zrna kukuruza, Praksa, Juni 2024	2.800	5.73 %
7. Mleveni klip kukuruza, Praksa, Juni 2024	0.000	0.00 %
8. Mlevena kocanka kukuruza, Praksa, Juni 2024	0.000	0.00 %
9. Jecam, gnjeceno zrno, Praksa, Juni 2024	0.500	1.02 %
10. Sojina sacma, 48% UP, Praksa, Juni 2024	0.500	1.02 %
11. Suncokretova sacma, Praksa, Juni 2024	0.250	0.51 %
12. Sojin griz, Praksa, Juni 2024	1.800	3.68 %
13. Sirovi pivski treber, Praksa, Juni 2024	4.000	8.19 %

**Total Intake**

48.852 kg/day

Estimate Intake

Set to 100%

**Ration Results**

Entered Milk Production : 36.0 (kg/day)

NEI Allowable Milk : 37.7 (kg/day)

MP Allowable Milk : 34.8 (kg/day)

NEI Balance : 1.2 (Mcal/day)

Days to gain one condition score : > 305

RDP Balance : 159 (g/d)

MP Balance : -56 (g/day)

Diet NEI : 1.56 (Mcal/kg DM)

Diet CP : 15.9 (%DM)

DMI - Predicted : 23.88 (kg/day)



**Ration List (As-Fed Basis)**

Feed Name	Qty. (kg/day)	% Tot ^
14. Kukukruzno glutensko hranivo, Praksa, Juni 2024	0.800	1.64 %
15. Suvi kukuruzni gluten, Praksa, Juni 2024	0.000000	0.00 %
16. Dikacijum fosfat, Praksa, Juni 2024	0.000000	0.00 %
17. Stocna so, Praksa, Juni 2024	0.000000	0.00 %
18. Bakar oksid, Praksa, Juni 2024	0.000000	0.00 %
19. Kalcijum jodat, Praksa, Juni 2024	0.000000	0.00 %
20. Natrijum selenit, Praksa, juni 2024	0.000000	0.00 %
21. Cink oksid, Praksa, Juni 2024	0.000000	0.00 %
22. Vitaminski panel 2, Praksa, Juni 2024	0.000000	0.00 %
23. Vitaminski panel 3, Praksa, Juni 2024	0	0.00 %
<b>Totals</b>	<b>48.65</b>	<b>99.6%</b>

**Total Intake**

48.852 kg/day

Estimate Intake

Set to 100%

**Ration Results**

Entered Milk Production : 36.0 (kg/day)

NEI Allowable Milk : 37.7 (kg/day)

MP Allowable Milk : 34.8 (kg/day)

NEI Balance : 1.2 (Mcal/day)

Days to gain one condition score : > 305

RDP Balance : 159 (g/d)

MP Balance : -56 (g/day)

Diet NEI : 1.56 (Mcal/kg DM)

Diet CP : 15.9 (%DM)

DMI - Predicted : 23.88 (kg/day)

# Disproporcija

NRC Nutrient Requirements of Dairy Cattle v. 1.1.9 - zvro

File Go To... Help

Inputs Feeds Ration Reports Help

Report Components

- Summary Report
- Energy and Protein Supply
- Duodenal Amino Acid Supply
- Dry Matter Intake
- Maintenance Requirements
- Growth Requirements
- Target Weights and ADG
- Pregnancy Requirements
- Lactation Requirements

View Report

Print Report

Printer Setup

Requirements	(Mcal/day)	(g/day)	(g/day)	(g/day)	(g/day)
Maintenance	9.7	828	19	25	166
Pregnancy	0.0	0	0	0	0
Lactation	25.7	1612	44	32	54
Growth	0.0	0	0	0	0
<b>Total Required</b>	<b>35.4</b>	<b>2440</b>	<b>63</b>	<b>57</b>	<b>220</b>
<b>Total Supplied</b>	<b>36.6</b>	<b>2384</b>	<b>51*</b>	<b>53*</b>	<b>372*</b>
<b>Balance</b>	<b>1.2</b>	<b>-56</b>	<b>-12</b>	<b>-4</b>	<b>152</b>

\* Note that these mineral supplied values are total absorbable supplied.

**Animal Performance**

DMI - Actual : 23.5 (kg/day)  
 DMI - Predicted : 23.9 (kg/day)

NEI Allowable Milk : 37.7 (kg/day) **Višak**  
 MP Allowable Milk : 34.8 (kg/day) **energije**

Milk Production : 36.0 (kg/day)

Days to gain one condition score : > 305

Daily Weight Change due to Reserves : 0.2 (kg/day)

**Protein Values**

RDP Required : 2320 (g/d)  
 RDP Supplied : 2479 (g/d)  
 RDP Balance : 159 (g/d) **+7%**

RUP Required : 1332 (g/d)  
 RUP Supplied : 1263 (g/d)  
 RUP Balance : -69 (g/d) **-5%**

MP - Bacterial : 1262 (g/d)  
 MP - RUP : 1012 (g/d)  
 MP - Endogenous : 111 (g/d)

CP - Diet : 15.9 (%DM)  
 CP - RDP : 10.5 (%DM)  
 CP - RUP : 5.4 (%DM)

# Sporedni proizvodi industrije šećera

- Rezanac ima manje energije od melase.
- Sa proteinima je obrnuta situacija.
- Pored toga nerazgradivost proteina rezanca je mnogo niža nego u slučaju melase.

Feed Name	Melasa	Rezanac
Category	Energy Source	By-Product/Other
International Feed Number	4-00-668	4-00-669
Energy Equation Class	Concentrate	Concentrate
Forage Description	Concentrate	Concentrate
Processing Factor (PAF)	1.04	1.00
TDN (%DM)	82.91	69.11
DE (Mcal/kg)	3.60	3.03
Dry Matter (%As-Fed)	77.90	88.30
NDF (%DM)	0.10	45.80
ADF (%DM)	0.10	23.10
Lignin (%DM)	0.00	1.60
CP (%DM)	8.50	10.00
NDFIP (%DM)	0.00	5.50
ADFIP (%DM)	0.00	0.60
Protein-A (%CP)	74.10	4.50
Protein-B (%CP)	25.90	90.50
Protein-C (%CP)	0.00	5.00
Protein Digestion Rate (%/hr)	3.20	2.00
RUP Digest (%)	100.00	80.00
Fat (%DM)	0.20	1.10
Ash (%DM)	11.40	7.30
CP D	1.00	1.00

# Rebalans sporednih proizvoda industrije šećera

NRC Nutrient Requirements of Dairy Cattle v. 1.1.9 - tmp

File Go To... Help

Inputs Feeds Ration Reports Help

### Ration List (As-Fed Basis)

Feed Name	Qty. (kg/day)	% Tot ^
1. Seno lucerke, srednji kvalitet, Praksa, Juni 2024	2.000	4.11 %
2. Senaza lucerke, srednji kvalitet, Praksa, Juni 2024	6.000	12.33 %
3. Kukuruzna silaza, prosecan kvalitet, Praksa, Juni 2024	26.000	53.44 %
4. Melasa secerne repe, Praksa, Juni 2024	0.500	1.03 %
5. Suvi repin rezanac, Praksa, Juni 2024	3.500	7.19 %
6. Prekrupa zrna kukuruza, Praksa, Juni 2024	2.800	5.76 %
7. Mleveni klip kukuruza, Praksa, Juni 2024	0.000	0.00 %
8. Mlevena kocanka kukuruza, Praksa, Juni 2024	0.000	0.00 %
9. Jecam, gnjeceno zrno, Praksa, Juni 2024	0.500	1.03 %
10. Sojina sacma, 48% UP, Praksa, Juni 2024	0.500	1.03 %
11. Suncokretova sacma, Praksa, Juni 2024	0.250	0.51 %
12. Sojin griz, Praksa, Juni 2024	1.800	3.70 %

**Total Intake** 48.650 kg/day

Estimate Intake Set to 100%

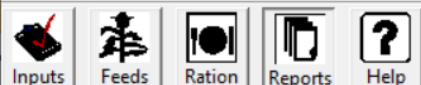
### Ration Results

Entered Milk Production : 36.0 (kg/day)  
NEI Allowable Milk : 37.8 (kg/day)  
MP Allowable Milk : 36.2 (kg/day)  
NEI Balance : 1.3 (Mcal/day)  
Days to gain one condition score : > 305  
RDP Balance : 102 (g/d)  
MP Balance : 7 (g/day)  
Diet NEI : 1.55 (Mcal/kg DM)  
Diet CP : 15.9 (%DM)  
DMI - Predicted : 23.88 (kg/day)

# Nakon rebalansa sporednih proizvoda industrije šećera

NRC Nutrient Requirements of Dairy Cattle v. 1.1.9 - zwro

File Go To... Help



## Report Components

- Summary Report
- Energy and Protein Supply
- Duodenal Amino Acid Supply
- Dry Matter Intake
- Maintenance Requirements
- Growth Requirements
- Target Weights and ADG
- Pregnancy Requirements
- Lactation Requirements

View Report

Print Report

Printer Setup

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### Diet Nutrient Balances

Requirements	NE1 (Mcal/day)	MP (g/day)	Ca (g/day)	P (g/day)	K (g/day)
Maintenance	9.7	834	19	25	167
Pregnancy	0.0	0	0	0	0
Lactation	25.7	1612	44	32	54
Growth	0.0	0	0	0	0
<b>Total Required</b>	<b>35.4</b>	<b>2446</b>	<b>63</b>	<b>57</b>	<b>221</b>
<b>Total Supplied</b>	<b>36.7</b>	<b>2452</b>	<b>57*</b>	<b>54*</b>	<b>320*</b>
<b>Balance</b>	<b>1.3</b>	<b>7</b>	<b>-6</b>	<b>-3</b>	<b>99</b>

\* Note that these mineral supplied values are total absorbable supplied.

### Animal Performance

DMI - Actual : 23.7 (kg/day)  
DMI - Predicted : 23.9 (kg/day)

NE1 Allowable Milk : 37.8 (kg/day) **Višak**  
MP Allowable Milk : 36.2 (kg/day) **energije**

Milk Production : 36.0 (kg/day)

Days to gain one condition score : > 305

Daily Weight Change due to Reserves : 0.3 (kg/day)

### Protein Values

RDP Required : 2325 (g/d)  
RDP Supplied : 2427 (g/d) **+4%**  
RDP Balance : 102 (g/d)

RUP Required : 1339 (g/d)  
RUP Supplied : 1347 (g/d) **+0.7%**  
RUP Balance : 9 (g/d)

MP - Bacterial : 1265 (g/d)  
MP - RUP : 1076 (g/d)  
MP - Endogenous : 112 (g/d)

CP - Diet : 15.9 (%DM)  
CP - RDP : 10.2 (%DM)  
CP - RUP : 5.7 (%DM)

# Rebalans koncentrata na bazi kukuruza

- Zrno kukuruza se isključuje
- Uvode se mleveni klip i mlevena kočanka.

Feed Name	Prekrupa Zrna kukuruza	Mleveni Klip kukuruza	Mlevena Kočanka kukuruza
Category	Energy Source	Energy Source	By-Product/Other
International Feed Number	4-02-854	4-02-849	1-28-234
Energy Equation Class	Concentrate	Concentrate	Concentrate
Forage Description	Concentrate	Concentrate	Concentrate
Processing Factor (PAF)	0.95	1.00	1.00
TDN (%DM)	84.98	83.47	54.32
DE (Mcal/kg)	3.69	3.62	2.31
Dry Matter (%As-Fed)	88.10	89.20	90.80
NDF (%DM)	9.50	21.50	86.20
ADF (%DM)	3.40	8.00	42.20
Lignin (%DM)	0.90	1.60	5.90
CP (%DM)	9.40	8.60	3.00
NDFIP (%DM)	0.70	0.90	1.70
ADFIP (%DM)	0.30	0.40	0.80
Protein-A (%CP)	23.90	30.00	45.00
Protein-B (%CP)	72.50	68.30	49.40
Protein-C (%CP)	3.60	1.70	5.60
Protein Digestion Rate (%/hr)	4.90	5.00	2.80
RUP Digest (%)	90.00	90.00	60.00
Fat (%DM)	4.20	3.90	0.60
Ash (%DM)	1.50	1.70	2.20



**Ration List (As-Fed Basis)**

Feed Name	Qty. (kg/day)	% Tot ^
1. Seno lucerke, srednji kvalitet, Praksa, Juni 2024	2.000	4.11 %
2. Senaza lucerke, srednji kvalitet, Praksa, Juni 2024	6.000	12.33 %
3. Kukuruzna silaza, prosecan kvalitet, Praksa, Juni 2024	26.000	53.44 %
4. Melasa secerne repe, Praksa, Juni 2024	0.500	1.03 %
5. Suvi repin rezanac, Praksa, Juni 2024	3.500	7.19 %
6. Prekrupa zrna kukuruza, Praksa, Juni 2024	0.000	0.00 %
7. Mleveni klip kukuruza, Praksa, Juni 2024	0.800	1.64 %
8. Mlevena kocanka kukuruza, Praksa, Juni 2024	2.000	4.11 %
9. Jecam, gnjeceno zmo, Praksa, Juni 2024	0.500	1.03 %
10. Sojina sacma, 48% UP, Praksa, Juni 2024	0.500	1.03 %
11. Suncokretova sacma, Praksa, Juni 2024	0.250	0.51 %
12. Sojin oriz. Praksa. Juni 2024	1.800	3.70 %

**Total Intake**

48.650 kg/day

Estimate Intake

Set to 100%

**Ration Results**

Entered Milk Production : 36.0 (kg/day)  
 NEI Allowable Milk : 36.9 (kg/day)  
 MP Allowable Milk : 34.4 (kg/day)  
 NEI Balance : 0.7 (Mcal/day)  
 Days to gain one condition score : > 305  
 RDP Balance : 75 (g/d)  
 MP Balance : -74 (g/day)  
 Diet NEI : 1.52 (Mcal/kg DM)  
 Diet CP : 15.4 (%DM)  
 DMI - Predicted : 23.88 (kg/day)



- ### Report Components
- Summary Report
  - Energy and Protein Supply
  - Duodenal Amino Acid Supply
  - Dry Matter Intake
  - Maintenance Requirements
  - Growth Requirements
  - Target Weights and ADG
  - Pregnancy Requirements
  - Lactation Requirements

**View Report**

**Print Report**

**Printer Setup**

**Diet Nutrient Balances**

Requirements	NE1 (Mcal/day)	MP (g/day)	Ca (g/day)	P (g/day)	K (g/day)
Maintenance	9.7	838	19	25	168
Pregnancy	0.0	0	0	0	0
Lactation	25.7	1612	44	32	54
Growth	0.0	0	0	0	0
<b>Total Required</b>	<b>35.4</b>	<b>2450</b>	<b>63</b>	<b>57</b>	<b>222</b>
<b>Total Supplied</b>	<b>36.1</b>	<b>2376</b>	<b>58*</b>	<b>51*</b>	<b>328*</b>
<b>Balance</b>	<b>0.7</b>	<b>-74</b>	<b>-5</b>	<b>-7 +3%</b>	<b>107</b>

\* Note that these mineral supplied values are total absorbable supplied.

**Animal Performance**

DMI - Actual : 23.7 (kg/day)  
 DMI - Predicted : 23.9 (kg/day)

NE1 Allowable Milk : 36.9 (kg/day)  
 MP Allowable Milk : 34.4 (kg/day)

Milk Production : 36.0 (kg/day)

Days to gain one condition score : > 305

Daily Weight Change due to Reserves : 0.1 (kg/day)

Višak energije  
 Nedostatak proteina

**Protein Values**

RDP Required : 2297 (g/d)  
 RDP Supplied : 2372 (g/d) **+3%**  
 RDP Balance : 75 (g/d)

RUP Required : 1381 (g/d)  
 RUP Supplied : 1287 (g/d) **-7%**  
 RUP Balance : -94 (g/d)

MP - Bacterial : 1249 (g/d)  
 MP - RUP : 1014 (g/d)  
 MP - Endogenous : 112 (g/d)

CP - Diet : 15.4 (%DM)  
 CP - RDP : 10.0 (%DM)  
 CP - RUP : 5.4 (%DM)

## Rebalans sporednih proizvoda industrije skroba

- Kukuruzni gluten ima više energije od kukuruznog glutenskog hraniva, ali i mnogo više proteina, kako ukupnih tako i nerazgradivih.

Feed Name	Kukuruzno Glutensko hranivo	Suvi Kukuruzni gluten
Category	By-Product/Other	Plant Protein
International Feed Number	5-28-243	5-28-242
Energy Equation Class	Concentrate	Concentrate
Forage Description	Concentrate	Concentrate
Processing Factor (PAF)	1.00	1.00
TDN (%DM)	74.00	84.44
DE (Mcal/kg)	3.43	4.43
Dry Matter (%As-Fed)	89.40	86.40
NDF (%DM)	35.50	11.10
ADF (%DM)	12.10	8.20
Lignin (%DM)	2.00	1.50
CP (%DM)	23.80	65.00
NDFIP (%DM)	3.60	3.60
ADFIP (%DM)	1.40	3.00
Protein-A (%CP)	48.00	3.90
Protein-B (%CP)	43.20	90.90
Protein-C (%CP)	8.80	5.20
Protein Digestion Rate (%/hr)	7.70	2.30
RUP Digest (%)	85.00	92.00
Fat (%DM)	3.50	2.50
Ash (%DM)	6.80	3.30



**Ration List (As-Fed Basis)**

Feed Name	Qty. (kg/day)	% Tot ^
5. Suvi repin rezanac, Praksa, Juni 2024	3.500	7.19 %
6. Prekrupa zrna kukuruza, Praksa, Juni 2024	0.000	0.00 %
7. Mleveni klip kukuruza, Praksa, Juni 2024	0.800	1.64 %
8. Mlevena kocanka kukuruza, Praksa, Juni 2024	2.000	4.11 %
9. Jecam, gnjeceno zrno, Praksa, Juni 2024	0.500	1.03 %
10. Sojina sacma, 48% UP, Praksa, Juni 2024	0.500	1.03 %
11. Suncokretova sacma, Praksa, Juni 2024	0.250	0.51 %
12. Sojin griz, Praksa, Juni 2024	1.800	3.70 %
13. Sirovi pivski treber, Praksa, Juni 2024	4.000	8.22 %
14. Kukukruzno glutensko hranivo, Praksa, Juni 2024	0.400	0.82 %
15. Suvi kukuruzni gluten, Praksa, Juni 2024	0.380000	0.78 %
16. Dikacijum fosfat, Praksa, Juni 2024	0.000000	0.00 %
17. Stocna so, Praksa, Juni 2024	0.000000	0.00 % v

**Total Intake**

48.650 kg/day

Estimate Intake

Set to 100%

**Ration Results**

Entered Milk Production : 36.0 (kg/day)  
 NEI Allowable Milk : 37.1 (kg/day)  
 MP Allowable Milk : 37.1 (kg/day)  
 NEI Balance : 0.8 (Mcal/day)  
 Days to gain one condition score : > 305  
 RDP Balance : 71 (g/d)  
 MP Balance : 51 (g/day)  
 Diet NEI : 1.52 (Mcal/kg DM)  
 Diet CP : 16.0 (%DM)  
 DMI - Predicted : 23.88 (kg/day)



- Report Components**
- Summary Report
  - Energy and Protein Supply
  - Duodenal Amino Acid Supply
  - Dry Matter Intake
  - Maintenance Requirements
  - Growth Requirements
  - Target Weights and ADG
  - Pregnancy Requirements
  - Lactation Requirements

**View Report**

**Print Report**

**Printer Setup**

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Requirements	(Mcal/day)	(g/day)	(g/day)	(g/day)	(g/day)
Maintenance	9.7	837	19	25	167
Pregnancy	0.0	0	0	0	0
Lactation	25.7	1612	44	32	54
Growth	0.0	0	0	0	0
<b>Total Required</b>	<b>35.4</b>	<b>2449</b>	<b>63</b>	<b>57</b>	<b>221</b>
<b>Total Supplied</b>	<b>36.2</b>	<b>2500</b>	<b>58*</b>	<b>50*</b>	<b>325*</b>
<b>Balance</b>	<b>0.8</b>	<b>51</b>	<b>-5</b>	<b>-8</b>	<b>104</b>

\* Note that these mineral supplied values are total absorbable supplied.

**Animal Performance**

DMI - Actual : 23.7 (kg/day) ✓  
 DMI - Predicted : 23.9 (kg/day) ✓  
 NEI Allowable Milk : 37.1 (kg/day)  
 MP Allowable Milk : 37.1 (kg/day) ✓  
 Milk Production : 36.0 (kg/day)  
 Days to gain one condition score : > 305  
 Daily Weight Change due to Reserves : 0.2 (kg/day)

**Protein Values**

RDP Required : 2296 (g/d) ✓  
 RDP Supplied : 2366 (g/d) ✓  
 RDP Balance : 71 (g/d)  
 RUP Required : 1357 (g/d)  
 RUP Supplied : 1421 (g/d) ✓  
 RUP Balance : 64 (g/d)  
 MP - Bacterial : 1249 (g/d)  
 MP - RUP : 1139 (g/d)  
 MP - Endogenous : 112 (g/d)  
 CP - Diet : 16.0 (%DM)  
 CP - RDP : 10.0 (%DM) ✓  
 CP - RUP : 6.0 (%DM)

# Odnos kabaste i koncentrovane hrane

NRC Nutrient Requirements of Dairy Cattle v. 1.1.9 - 002VisokaProizvodnjaRESENJEbezMinerala

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- Lactation Requirements

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**Diet Concentrations**

NDF : 43.2 (%DM)  
Forage NDF : 25.0 (%DM)  
ADF : 26.2 (%DM)  
NFC : 34.3 (%DM)  
Undiscounted TDN : 69 (%DM)  
ME : 2.43 (Mcal/kg DM)  
NE1 : 1.52 (Mcal/kg DM)  
NEg : 1.03 (Mcal/kg DM)  
Ca : 0.5 (%DM)  
P : 0.3 (%DM)  
Ether-Extract : 3.6 (%DM)  
DCAD : 207 (mEq/kg)

**Target Diet Concentrations**

NE1 : 1.48 (Mcal/kg)  
MP : 103 (g/kg)  
Ca : 3 (g/kg)  
P : 2 (g/kg)

**Diet Summary**

Feed Name	kg/day (Dry Matter)	kg/day (As-Fed)	% (Dry Matter)
Legume Forage Hay, mid-mat.	1.68	2.00	7.08
Legume Forage Sil., mid-mat.	2.57	6.00	10.85
Corn Silage, normal	9.13	26.00	38.48
Molasses, Beet sugar	0.39	0.50	1.64
Beet Sugar Pulp, dried	3.09	3.50	13.03
Corn Grain, cracked, dry	0.00	0.00	0.00
Corn Grain+cob, dry ground	0.71	0.80	3.01

## Odnos kabaste i koncentrovane hrane (Barmore, 1993)

Grupa krava:  ▼

NDF, % DM (NDF, % SM minimalno):

Dovoljno!

Forage NDF, % DM (NDF iz kabaste hrane, minimum):

Dovoljno!

ADF, % DM (ADF, % SM minimalno):

Dovoljno!

NFC, % DM (Nestrukturani ugljeni hidrati, % SM maksimalno):

Dovoljno!

# Balansiranje minerala i vitamina

NRC Nutrient Requirements of Dairy Cattle v. 1.1.9 - 002VisokaProizvodnjaRESENJEbeZMinerala

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### Summary Report

Animal Inputs

Animal Type : Lactating Cow  
Age : 30 months  
Body Weight : 600 kg  
Milk Fat : 3.75%  
Days In Milk : 120

Milk Production : 36.0 (kg/day)  
Days Pregnant : 30  
Breed : Holstein  
Milk True Protein : 3.00%

Diet Nutrient Balances

Requirements	NE1 (Mcal/day)	MP (g/day)	Ca (g/day)	P (g/day)	K (g/day)
Maintenance	9.7	837	19	25	167
Pregnancy	0.0	0	0	0	0
Lactation	25.7	1612	44	32	54
Growth	0.0	0	0	0	0
<b>Total Required</b>	<b>35.4</b>	<b>2449</b>	<b>63</b>	<b>57</b>	<b>221</b>
<b>Total Supplied</b>	<b>36.2</b>	<b>2500</b>	<b>58*</b>	<b>50*</b>	<b>325*</b>
<b>Balance</b>	<b>0.8</b>	<b>51</b>	<b>-5</b>	<b>-8</b>	<b>104</b>

\* Note that these mineral supplied values are total *absorbable* supplied.

Animal Performance

DMI - Actual : 23.7 (kg/day)  
DMI - Predicted : 23.9 (kg/day)

Protein Values

RDP Required : 2296 (g/d)  
RDP Supplied : 2366 (g/d)

# Makroelementi

NRC Nutrient Requirements of Dairy Cattle v. 1.1.9 - 002VisokaProizvodnjaRESENJEbezMinerala

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Report Components

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- Dry Matter Intake
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- Pregnancy Requirements
- Lactation Requirements
- Reserves Requirements
- Mineral Requirements

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### Mineral Requirements

#### Macro-Minerals

	Ca	P	Mg	Cl	K	Na	S
	(g/day)						
Maintenance (Fecal)	18.6	23.7	1.8	13.5	144.7	22.8	0.0
Maintenance (Urine, Sweat & Misc.)	0.5	1.2	0.0	0.0	22.8	0.0	0.0
Pregnancy	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lactation	43.9	32.4	5.4	41.4	54.0	22.7	0.0
Growth	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Absorbed Required (TAR)	63.0	57.3	7.2	54.9	221.5	45.5	47.4
Total Dietary Supplied	125.2	72.2	49.3	63.0	361.2	19.2	54.5
Total Absorbable Supplied (TAS)	57.7	49.7	7.9	56.7	325.1	17.3	54.5
Difference (TAS-TAR)	-5.3	-7.6	0.7	1.8	103.6	-28.2	7.1
Ration Density	0.53 %	0.30 %	0.21 %	0.27 %	1.52 %	0.08 %	0.23 %

#### Micro-Minerals

	Co	Cu	I	Fe	Mn	Se	Zn
	(mg/day)						
Maintenance (Fecal)	0.00	4.26	0.00	0.00	1.20	0.00	19.80
Maintenance (Urine, Sweat & Misc.)	0.00	0.00	0.00	0.00	0.00	0.00	7.20
Pregnancy	0.00	0.50	0.00	0.00	0.00	0.00	0.00
Lactation	0.00	5.40	9.00	36.00	1.08	0.00	144.00
Growth	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Absorbed Required (TAR)	2.61	10.16	9.00	36.00	2.28	7.11	171.00

# Mikroelementi

	Co	Cu	I	Fe	Mn	Se	Zn
	(mg/day)						
Maintenance (Fecal)	0.00	4.26	0.00	0.00	1.20	0.00	19.80
Maintenace (Urine, Sweat & Misc.)	0.00	0.00	0.00	0.00	0.00	0.00	7.20
Pregnancy	0.00	0.50	0.00	0.00	0.00	0.00	0.00
Lactation	0.00	5.40	9.00	36.00	1.08	0.00	144.00
Growth	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Absorbed Required (TAR)	2.61	10.16	9.00	36.00	2.28	7.11	171.00
Total Dietary Supplied	2.92	199.03	0.00	5613.47	945.66	3.58	715.17
Total Absorbable Supplied (TAS)	2.92	7.96	0.00	561.35	7.09	3.58	107.28
Difference (TAS-TAR)	0.31	-2.20	-9.00	525.35	4.81	-3.54	-63.72
Ration Density	0.12 ppm	8.39 ppm	0.00 ppm	236.69 ppm	39.87 ppm	0.15 ppm	30.16 ppm

# Vitamini

	VitA	VitD	VitE
	(1000 IU/d)		(IU/d)
Maintenance (Fecal)	0.0	0.0	0.0
Maintenace (Urine, Sweat & Misc.)	0.0	0.0	0.0
Pregnancy	0.0	0.0	0.0
Lactation	0.0	0.0	0.0
Growth	N/A	N/A	N/A
Total Absorbed Required (TAR)	66.0	18.0	480.0
Total Dietary Supplied	0.0	0.0	0.0
Total Absorbable Supplied (TAS)	0.0	0.0	0.0
Difference (TAS-TAR)	-66.0	-18.0	-480.0
Ration Density	0.0 (1000 IU/kg)	0.0 (1000 IU/kg)	0.0 (IU/kg)

# Dodatak minerala i vitamina

NRC Nutrient Requirements of Dairy Cattle v. 1.1.9 - tmp

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### Ration List (As-Fed Basis)

Feed Name	Qty. (kg/day)	% Tot ^
14. Kukukruzno glutensko hranivo, Praksa, Juni 2024	0.400	0.82 %
15. Suvi kukuruzni gluten, Praksa, Juni 2024	0.380000	0.78 %
16. Dikacijum fosfat, Praksa, Juni 2024	0.055000	0.11 %
17. Stocna so, Praksa, Juni 2024	0.080000	0.16 %
18. Bakar oksid, Praksa, Juni 2024	0.000400	0.00 %
19. Kalcijum jodat, Praksa, Juni 2024	0.000016	0.00 %
20. Natrijum selenit, Praksa, juni 2024	0.000008	0.00 %
21. Cink oksid, Praksa, Juni 2024	0.000800	0.00 %
22. Vitaminski panel 2, Praksa, Juni 2024	0.075000	0.15 %
23. Vitaminski panel 3, Praksa, Juni 2024	0.011000	0.02 %
Totals	48.85	100.4%

**Total Intake** 48.630 kg/day

Estimate Intake Set to 100%

### Ration Results

Entered Milk Production : 36.0 (kg/day)  
NEI Allowable Milk : 37.4 (kg/day)  
MP Allowable Milk : 37.2 (kg/day)  
NEI Balance : 1.0 (Mcal/day)  
Days to gain one condition score : > 305  
RDP Balance : 59 (g/d)  
MP Balance : 52 (g/day)  
Diet NEI : 1.52 (Mcal/kg DM)  
Diet CP : 15.8 (%DM)  
DMI - Predicted : 23.88 (kg/day)

# Kalcijum i fosfor

NRC Nutrient Requirements of Dairy Cattle v. 1.1.9 - 002VisokaProizvodnjaMinerali

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### Report Components

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- Growth Requirements
- Target Weights and ADG
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- Lactation Requirements

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### Summary Report

#### Animal Inputs

Animal Type : Lactating Cow  
Age : 30 months  
Body Weight : 600 kg  
Milk Fat : 3.75%  
Days In Milk : 120

Milk Production : 36.0 (kg/day)  
Days Pregnant : 30  
Breed : Holstein  
Milk True Protein : 3.00%

#### Diet Nutrient Balances

Requirements	NEI (Mcal/day)	MP (g/day)	Ca (g/day)	P (g/day)	K (g/day)
Maintenance	9.7	844	19	25	169
Pregnancy	0.0	0	0	0	0
Lactation	25.7	1612	44	32	54
Growth	0.0	0	0	0	0
<b>Total Required</b>	<b>35.4</b>	<b>2456</b>	<b>63</b>	<b>58</b>	<b>223</b>
<b>Total Supplied</b>	<b>36.4</b>	<b>2508</b>	<b>68*</b>	<b>58*</b>	<b>325*</b>
<b>Balance</b>	<b>1.0</b>	<b>52</b>	<b>5</b>	<b>0</b>	<b>102</b>

\* Note that these mineral supplied values are total absorbable supplied.

#### Animal Performance

DMI - Actual : 23.9 (kg/day)  
DMI - Predicted : 23.9 (kg/day)

#### Protein Values

RDP Required : 2305 (g/d)  
RDP Supplied : 2364 (g/d)

$$\text{Ca} : \text{P} = 0.6 : 0.3 = 2:1$$

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**Diet Concentrations**

NDF : 42.8 (%DM)  
 Forage NDF : 24.8 (%DM)  
 ADF : 25.9 (%DM)  
 NFC : 34.4 (%DM)  
 Undiscounted TDN : 69 (%DM)  
 ME : 2.42 (Mcal/kg DM)  
 NE1 : 1.52 (Mcal/kg DM)  
 NEg : 1.02 (Mcal/kg DM)  
 Ca : 0.6 (%DM)  
 P : 0.3 (%DM)  
 Ether-Extract : 3.6 (%DM)  
 DCAD : 204 (mEq/kg)

**Target Diet Concentrations**

NE1 : 1.48 (Mcal/kg)  
 MP : 103 (g/kg)  
 Ca : 3 (g/kg)  
 P : 2 (g/kg)

**Diet Summary**

Feed Name	kg/day (Dry Matter)	kg/day (As-Fed)	% (Dry Matter)
Legume Forage Hay, mid-mat.	1.68	2.00	7.01
Legume Forage Sil., mid-mat.	2.57	6.00	10.75
Corn Silage, normal	9.13	26.00	38.12
Molasses, Beet sugar	0.39	0.50	1.63
Beet Sugar Pulp, dried	3.09	3.50	12.91
Corn Grain, cracked, dry	0.00	0.00	0.00
Corn Grain+cob, dry ground	0.71	0.80	2.98

# Natrijum

## Macro-Minerals



	Ca	P	Mg	Cl	K	Na	S
	(g/day)						
Maintenance (Fecal)	18.6	23.9	1.8	13.5	146.0	22.8	0.0
Maintenance (Urine, Sweat & Misc.)	0.5	1.2	0.0	0.0	22.8	0.0	0.0
Pregnancy	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lactation	43.9	32.4	5.4	41.4	54.0	22.7	0.0
Growth	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Absorbed Required (TAR)	63.0	57.5	7.2	54.9	222.8	45.5	47.9
Total Dietary Supplied	137.3	82.8	49.6	111.5	361.2	50.9	55.1
Total Absorbable Supplied (TAS)	67.8	57.7	7.9	100.4	325.1	45.8	55.1
Difference (TAS-TAR)	4.8	0.1	0.7	45.5	102.3	0.3	7.2
Ration Density	0.57 %	0.35 %	0.21 %	0.47 %	1.51 %	0.21 %	0.23 %

$TAS / TAR = 45.8 / 45.5 = 1.007$  (1% više u odnosu na potrebe)

# Bakar

## Micro-Minerals



	Co	Cu	I	Fe	Mn	Se	Zn
	(mg/day)						
Maintenance (Fecal)	0.00	4.26	0.00	0.00	1.20	0.00	19.80
Maintenace (Urine, Sweat & Misc.)	0.00	0.00	0.00	0.00	0.00	0.00	7.20
Pregnancy	0.00	0.50	0.00	0.00	0.00	0.00	0.00
Lactation	0.00	5.40	9.00	36.00	1.08	0.00	144.00
Growth	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Absorbed Required (TAR)	2.63	10.16	9.00	36.00	2.28	7.18	171.00
Total Dietary Supplied	3.47	499.58	10.16	6405.47	962.16	7.23	1296.67
Total Absorbable Supplied (TAS)	3.47	10.98	9.14	640.55	7.22	7.23	177.22
Difference (TAS-TAR)	0.84	0.82	0.14	604.55	4.94	0.04	6.22
Ration Density	0.15 ppm	20.87 ppm	0.42 ppm	267.58 ppm	40.19 ppm	0.30 ppm	54.17 ppm

$$\text{TAS} / \text{TAR} = 10.98 / 10.16 = 1.08 \text{ (8\% vi\text{s}e u odnosu na potrebe)}$$

# Jod

## Micro-Minerals



	Co	Cu	I	Fe	Mn	Se	Zn
	(mg/day)						
Maintenance (Fecal)	0.00	4.26	0.00	0.00	1.20	0.00	19.80
Maintenace (Urine, Sweat & Misc.)	0.00	0.00	0.00	0.00	0.00	0.00	7.20
Pregnancy	0.00	0.50	0.00	0.00	0.00	0.00	0.00
Lactation	0.00	5.40	9.00	36.00	1.08	0.00	144.00
Growth	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Absorbed Required (TAR)	2.63	10.16	9.00	36.00	2.28	7.18	171.00
Total Dietary Supplied	3.47	499.58	10.16	6405.47	962.16	7.23	1296.67
Total Absorbable Supplied (TAS)	3.47	10.98	9.14	640.55	7.22	7.23	177.22
Difference (TAS-TAR)	0.84	0.82	0.14	604.55	4.94	0.04	6.22
Ration Density	0.15 ppm	20.87 ppm	0.42 ppm	267.58 ppm	40.19 ppm	0.30 ppm	54.17 ppm

$$\text{TAS} / \text{TAR} = 9.14 / 9.00 = 1.02 \text{ (2\% vi\text{š}e u odnosu na potrebe)}$$

# Selen

## Micro-Minerals



	Co	Cu	I	Fe	Mn	Se	Zn
	(mg/day)						
Maintenance (Fecal)	0.00	4.26	0.00	0.00	1.20	0.00	19.80
Maintenace (Urine, Sweat & Misc.)	0.00	0.00	0.00	0.00	0.00	0.00	7.20
Pregnancy	0.00	0.50	0.00	0.00	0.00	0.00	0.00
Lactation	0.00	5.40	9.00	36.00	1.08	0.00	144.00
Growth	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Absorbed Required (TAR)	2.63	10.16	9.00	36.00	2.28	7.18	171.00
Total Dietary Supplied	3.47	499.58	10.16	6405.47	962.16	7.23	1296.67
Total Absorbable Supplied (TAS)	3.47	10.98	9.14	640.55	7.22	7.23	177.22
Difference (TAS-TAR)	0.84	0.82	0.14	604.55	4.94	0.04	6.22
Ration Density	0.15 ppm	20.87 ppm	0.42 ppm	267.58 ppm	40.19 ppm	0.30 ppm	54.17 ppm

$$\text{TAS} / \text{TAR} = 7.23 / 7.18 = 1.01 \text{ (1\% vi\text{š}e u odnosu na potrebe)}$$

# Cink

## Micro-Minerals



	Co	Cu	I	Fe	Mn	Se	Zn
	(mg/day)						
Maintenance (Fecal)	0.00	4.26	0.00	0.00	1.20	0.00	19.80
Maintenace (Urine, Sweat & Misc.)	0.00	0.00	0.00	0.00	0.00	0.00	7.20
Pregnancy	0.00	0.50	0.00	0.00	0.00	0.00	0.00
Lactation	0.00	5.40	9.00	36.00	1.08	0.00	144.00
Growth	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Absorbed Required (TAR)	2.63	10.16	9.00	36.00	2.28	7.18	171.00
Total Dietary Supplied	3.47	499.58	10.16	6405.47	962.16	7.23	1296.67
Total Absorbable Supplied (TAS)	3.47	10.98	9.14	640.55	7.22	7.23	177.22
Difference (TAS-TAR)	0.84	0.82	0.14	604.55	4.94	0.04	6.22
Ration Density	0.15 ppm	20.87 ppm	0.42 ppm	267.58 ppm	40.19 ppm	0.30 ppm	54.17 ppm

$$\text{TAS} / \text{TAR} = 177.22 / 171.00 = 1.04 \text{ (4\% vi\text{š}e u odnosu na potrebe)}$$

# Vitamin D



	VitA	VitD	VitE
	(1000 IU/d)		(IU/d)
Maintenance (Fecal)	0.0	0.0	0.0
Maintenance (Urine, Sweat & Misc.)	0.0	0.0	0.0
Pregnancy	0.0	0.0	0.0
Lactation	0.0	0.0	0.0
Growth	N/A	N/A	N/A
Total Absorbed Required (TAR)	66.0	18.0	480.0
Total Dietary Supplied	150.0	18.8	491.5
Total Absorbable Supplied (TAS)	150.0	18.8	491.5
Difference (TAS-TAR)	84.0	0.8	11.5
Ration Density	6.3 (1000 IU/kg)	0.8 (1000 IU/kg)	20.5 (IU/kg)

TAS / TAR = 18.8 / 18 = 1.04 (4% više u odnosu na potrebe)

# Vitamin E



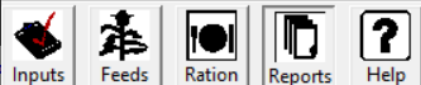
	VitA	VitD	VitE
	(1000 IU/d)		(IU/d)
Maintenance (Fecal)	0.0	0.0	0.0
Maintenance (Urine, Sweat & Misc.)	0.0	0.0	0.0
Pregnancy	0.0	0.0	0.0
Lactation	0.0	0.0	0.0
Growth	N/A	N/A	N/A
Total Absorbed Required (TAR)	66.0	18.0	480.0
Total Dietary Supplied	150.0	18.8	491.5
Total Absorbable Supplied (TAS)	150.0	18.8	491.5
Difference (TAS-TAR)	84.0	0.8	11.5
Ration Density	6.3 (1000 IU/kg)	0.8 (1000 IU/kg)	20.5 (IU/kg)

$$\text{TAS} / \text{TAR} = 491.5 / 480 = 1.02 \text{ (2\% vi\se u odnosu na potrebe)}$$

# Pregled rebalansa

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## Report Components

- Summary Report
- Energy and Protein Supply
- Duodenal Amino Acid Supply
- Dry Matter Intake
- Maintenance Requirements
- Growth Requirements
- Target Weights and ADG
- Pregnancy Requirements
- Lactation Requirements

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Requirements	NE1 (Mcal/day)	MP (g/day)	Ca (g/day)	P (g/day)	K (g/day)
Maintenance	9.7	844	19	25	169
Pregnancy	0.0	0	0	0	0
Lactation	25.7	1612	44	32	54
Growth	0.0	0	0	0	0
<b>Total Required</b>	<b>35.4</b>	<b>2456</b>	<b>63</b>	<b>58</b>	<b>223</b>
<b>Total Supplied</b>	<b>36.4</b>	<b>2508</b>	<b>68*</b>	<b>58*</b>	<b>325*</b>
<b>Balance</b>	<b>1.0</b>	<b>52</b>	<b>5</b>	<b>0</b>	<b>102</b>

\* Note that these mineral supplied values are total *absorbable* supplied.

### Animal Performance

DMI - Actual : 23.9 (kg/day)  
DMI - Predicted : 23.9 (kg/day)

NE1 Allowable Milk : 37.4 (kg/day)  
MP Allowable Milk : 37.2 (kg/day)

Milk Production : 36.0 (kg/day)

Days to gain one condition score : > 305

Daily Weight Change due to Reserves : 0.2 (kg/day)

### Protein Values

RDP Required : 2305 (g/d)  
RDP Supplied : 2364 (g/d)  
RDP Balance : 59 (g/d)

RUP Required : 1358 (g/d)  
RUP Supplied : 1423 (g/d)  
RUP Balance : 65 (g/d)

MP - Bacterial : 1254 (g/d)  
MP - RUP : 1141 (g/d)  
MP - Endogenous : 113 (g/d)

CP - Diet : 15.8 (%DM)  
CP - RDP : 9.9 (%DM)  
CP - RUP : 5.9 (%DM)

# SM i proizvodnja mleka

NRC Nutrient Requirements of Dairy Cattle v. 1.1.9 - 002VisokaProizvodnjaMinerali

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### Report Components

- Summary Report
- Energy and Protein Supply
- Duodenal Amino Acid Supply
- Dry Matter Intake
- Maintenance Requirements
- Growth Requirements
- Target Weights and ADG
- Pregnancy Requirements
- Lactation Requirements

**View Report**

**Print Report**

**Printer Setup**

Requirements	NE1 (Mcal/day)	MP (g/day)	Ca (g/day)	P (g/day)	K (g/day)
Maintenance	9.7	844	19	25	169
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# Popravka kondicije

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### Report Components

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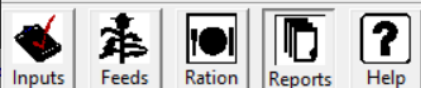
CP - RDP : 9.9 (%DM)

CP - RUP : 5.9 (%DM)

# Razgradivi proteini (RDP)

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<b>Balance</b>	<b>1.0</b>	<b>52</b>	<b>5</b>	<b>0</b>	<b>102</b>

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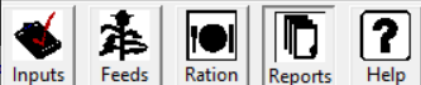
CP - Diet : 15.8 (%DM)  
CP - RDP : 9.9 (%DM)  
CP - RUP : 5.9 (%DM)

2364/2305=1.03 (višak 3%)

# Nerazgradivi proteini (RUP)

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## Report Components

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CP - Diet : 15.8 (%DM)  
CP - RDP : 9.9 (%DM)  
CP - RUP : 5.9 (%DM)

1423/1358=1.05 (višak 5%)

# Udeo RUP u ukupnim proteinima (CP)

NRC Nutrient Requirements of Dairy Cattle v. 1.1.9 - 002VisokaProizvodnjaMinerali

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 MP - Endogenous : 113 (g/d)

CP - Diet : 15.8 (%DM)  
 CP - RDP : 9.9 (%DM)  
 CP - RUP : 5.9 (%DM)

**5.9/15.8=0.37 (37%)**

