

Cowbytes version 5 Training Module

COWBYTES 5

v5.32

Alberta

Agriculture and Rural Development

Tutorial 1 – Exercise 3 of 3

1,400 lb Cow – Lactating

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OK

Cowbytes Version 5 – Training Module

Tutorial 1 – 1,400 lb Cow

Exercise 3

1,400 lb Cow Lactating, Body Condition Score 3.0

First Month of Lactation, Lactation #4, Peak Milk Yield 20 lbs




0.25 lbs body weight gain, March conditions -10C current, -15C previous

85 lb calf

1. Describe Cow and Environmental parameters.
2. Use Feeds from Exercise 2.
3. Balance Ration using Hay, Straw and Grain – Supplied Dry Matter Intake to equal Recommended Dry Matter Intake. Balance the Ration. Body weight gain should be about 0.25 lbs per day.
4. Check Ca:P Ratio at least 1.5:1, 2:1 is better. Meet minimum P requirements first.
5. Review the NDF as a % Body Weight. Use the F1 Key for additional Information.
6. From Top Menu Bar, select **Edit Ration Notes (Edit)**. Add comments about this ration (Nitrates).
7. **Feeding Info Tab** – set # days on this Ration. Add \$0.35 per day in the Yardage Box.
8. **Save to Ration Summary** – name the summary **1400 lb Cow Lactating**.
9. Open **Manage Summaries** and **Move** them into the proper order.
10. Select **Open Ration Summary Report**, select **View Ration Summary Report**
11. Print the **Ration Summary Report** (Print to a PDF file)
12. Open **Reports** and Select **Ration Report**. Review the Note section
13. From the Top Menu Bar, select **Edit Other Definition**
14. Enter **Nitrate** in the **Column Label**, enter **2** decimals in output, check **Use Other Information**. Scroll across to end of screen to view **Nitrate Column**. Add some values in the Nitrate Column.
15. Select the Feeding Info Tab.
16. Select **Save to Ration Summary** – select **1400 lb Cow Lactating** in the drop down list.
17. Save the Ration File to the Hard Drive – File | Save | Ration Filename

COWBYTES 5.2.7 AARD - FULL VERSION

File Edit Feed Table Reports Yardage Calculator Help

Canadian units    **Cows - Lactating - 1400lbs, Preg:0 Months, Exp. Birth Wt:90.39lbs**

Ration Animal Type **Feed Table** Feeding Info Feed Mixes Client Info Water Modification Config Calculator

Cows - Lactating

Body Weight (lbs)
1400

Months Pregnant
0

Breed
British / Continental excluding Simmentals

Expected Birth Wt. (lbs)
85.0

Ionophores
No

Current Month of Lactation
1

Condition Score
3.0 CAN 5 US moderate

Lactation Number
4

Desired ADG (lbs)
0.25

Peak Milk Yield (lbs)
20.0

Slaughter/Mature Wt. (lbs)
1400

Current Temperature (C)
-10.0

Wind Speed (km/hr)
5

Hair Condition
dry and clean

Mud in Lot
< 10 cm (4 inches)

Previous Month Temperature (C)
-15.0

Hair Depth (cm)
1.30

Hide Thickness
Average

Heat Stress
No heat stress

Light Cooling

Ration: Cowbytes Training 1400 lb Cow Tutorial.cml Feed Table: system.fml

Enter the information on this page

COWBYTES 5.2.7 AARD - FULL VERSION

File Edit Feed Table Reports Yardage Calculator Help

Canadian units **Cows - Lactating - 1400lbs, Preg:0 Months, Exp. Birth Wt:85.00lbs**

Ration Animal Type Feed Table Feeding Info Feed Mixes Client Info Water Modification Config Calculator

Feed Name	DM Fed %	As fed (lbs)	DM fed (lbs)	DM %	DE Mcal/lb	TDN %	Protein %	Calcium %	Phosphorus %	Cost \$/unit	lbs /unit	Magne: %
ALF-GRASS HAY	55.6	20.700	18.092	87.4	1.14	57.00	12.5	1.22	0.19	70.00	2000	
BARLEY STRAW	5.5	2.000	1.782	89.1	0.84	42.00	4.0	0.13	0.08	28.00	2000	
BARLEY GRAIN	38.4	14.100	12.479	88.5	1.60	80.00	12.0	0.07	0.38	4.25	48	
18:18 MINERAL	0.2	0.060	0.059	99.0	0.00	0.00	0.0	18.18	18.18	29.00	55	
FORT TMSALT+SE	0.3	0.090	0.089	99.0	0.00	0.00	0.0	0.00	0.00	12.00	44	
ADE 10 MILLION	0.0	0.013	0.013	99.0	0.00	0.00	0.0	0.00	0.00	68.00	44	
VIT E 50000	0.1	0.020	0.017	86.0	0.00	0.00	0.0	0.00	0.00	146.00	55	

**Supplied Dry Matter Intake should equal the Recommended DM Intake
Adjust the As Fed (lbs) so the TDN Recommended equals TDN Supplied**

Dry Matter Intake	Maximum	Recommended	Supplied (lbs)	As Fed (lbs)	Pred. ADG (lbs)	To gain 1/2 BCS(Can)
	37.9	32.5	32.5	37	0.3	383 days

Description	DM %	DE Mcal	TDN lbs	Protein grams	Calcium grams	Phosphorus grams	Cost HD/Day	Magnesium grams
Recommended Nutrients per Day		41.67	20.88	1323	51	32		
Supplied from Ration		42.00	21.04	1737	110	43	2.13	

Description	Mcal/lb	%	%	%	%	%
Diet Concentration (DM)	88.0	1.29	64.69	11.8	0.75	0.29

Ration: Cowbytes Training 1400 lb Cow Tutorial.cml Feed Table: system.fml

Ration Notes can be saved with each Ration Summary

From the Top Menu Bar select **Edit Ration Notes (Edit)**

Add comments such as Feeding Precautions, Instructions, etc.

Edit Ration Notes

This is the new Note Section that is saved with each Ration Summary File. To find me, from the Top Menu Bar, select **Edit** then **Ration Notes (Edit)**. In this example we want to add the following comment "This Hay is High in Nitrates"

Add a Note to read This Hay is High in Nitrates

* **Maximum 400 characters permitted**

Close

COWBYTES 5.2.7 AARD - FULL VERSION

File Edit Feed Table Reports Yardage Calculator Help

Canadian units Cows - Dry - 1400lbs, Preg:7Months, Exp. Birth Wt:85.00lbs

Ration Animal Type Feed Table Feeding Info Feed Mixes Client Info Water Modification Config Calculator

of days on this Ration: 30 # of head: 150 Yardage \$/hd/day: 0.35 Total Ration Cost (\$): 7439.7 Feed Cost/Lb of gain (\$): 5.12

Feed Name	Home	Purch	Package Weight	Package Type	Waste Factor	No. Packages
ALF-GRASS HAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1400	Rnd. Bal	15	97.9
BARLEY STRAW	<input checked="" type="checkbox"/>	<input type="checkbox"/>	900	Rnd. Bal	15	51.8
18:18 MINERAL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	55	Bag	0	4.91
FORT TMSALT+SE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	44	Block	0	7.2
ADE 10 MILLION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	44	Bag	0	0.61
VIT E 50000	<input type="checkbox"/>	<input checked="" type="checkbox"/>	55	Bag	0	0.98

- Enter # of Days on this Ration and # of Head
- Check Home or Purchased
- Adjust the Package Weight (weight of the bale, bag, block, etc.)
- Select the Type of Package from the Drop Down List
- A Waste Factor can be Included (5% to 25%)

Manage Ration Summaries Save to Ration Summary Open Ration Summary Report

Ration: Cowbytes Training 1400 lb Cow Tutorial.cml Feed Table: system.fml

COWBYTES 5.2.7 AARD - FULL VERSION

File Edit Feed Table Reports Yardage Calculator Help

Canadian units Cows - Lactating - 1400lbs, Preg:0 Months, Exp. Birth Wt:85.00lbs

Ration Animal Type Feed Table Feeding Info Feed Mixes Client Info Water Modification Config Calculator

of days on this Ration: 30 # of head: 150

Feed Name	Home	Purch
ALF-GRASS HAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BARLEY STRAW	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BARLEY GRAIN	<input checked="" type="checkbox"/>	<input type="checkbox"/>
18:18 MINERAL	<input type="checkbox"/>	<input checked="" type="checkbox"/>
FORT TMSALT+SE	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ADE 10 MILLION	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VIT E 50000	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Name or Rename Ration Summary

Provide a name for this ration summary or
Click the dropdown box to choose
an existing ration summary to update

1400 LB COW LACTATING

Cancel Ok

Click Save to Ration Summary Button
Enter 1400 lb Cow Lactating

Next click Manage Ration Summaries

✓ Manage Ration Summaries Save to Ration Summary Open Ration Summary Report

Ration: Cowbytes Training 1400 lb Cow Tutorial.cml Feed Table: system.fml

Manage Ration Summaries [X]

To delete ration summaries, check next to the summary name(s) then click "Delete checked summaries"

To change the order of a summary, right-click on a summary and choose "move up" or "move down" from the popup menu.




- 1400 LB COW 5 MONTHS PREGNANT
- 1400 LB COW LACTATING
- 1400 LB COW 7 MONTHS PREGNANT

Practice moving the Ration Summary Files into the order of your choice. Right Click on any File to Move it Up or Down

[Delete checked summaries] [Close]

COWBYTES 5.2.7 AARD - FULL VERSION

File Edit Feed Table Reports Yardage Calculator Help

Canadian units   

Cows - Lactating - 1400lbs, Preg:0 Months, Exp. Birth Wt:85.00lbs

Ration Animal Type Feed Table Feeding Info Feed Mixes Client Info Water Modification Config Calculator

of days on this Ration # of head Yardage \$/hd/day Total Ration Cost (\$) Feed Cost/Lb of gain (\$)


30 150 0.35 11758.93 7.74

Feed Name	Home	Purch	Package Weight	Package Type	Waste Factor	No. Packages
ALF-GRASS HAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1400	Rnd. Bal	15	78.3
BARLEY STRAW	<input checked="" type="checkbox"/>	<input type="checkbox"/>	900	Rnd. Bal	15	11.8
BARLEY GRAIN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	48	Bushels	0	1321.9
18:18 MINERAL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	55	Bag	0	4.91
FORT TMSALT+SE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	44	Block	0	9.2
ADE 10 MILLION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	44	Bag	0	1.33
VIT E 50000	<input type="checkbox"/>	<input checked="" type="checkbox"/>	55	Bag	0	1.64

Click Open Ration Summary Report

Manage Ration Summaries
 Save to Ration Summary
 Open Ration Summary Report

Ration: Cowbytes Training 1400 lb Cow Tutorial.cml Feed Table: system.fml


 **Select Rations for Summary Report**


Select rations to include in summary report

Select	Animal Description	Ration	Head	Days
<input checked="" type="checkbox"/>	Cows - Dry - 1400lbs, Preg:5Months, Exp. Birth Wt:85.00lbs	1400 LB COW 5 MONTHS PREGNANT	150	30
<input checked="" type="checkbox"/>	Cows - Dry - 1400lbs, Preg:7Months, Exp. Birth Wt:85.00lbs	1400 LB COW 7 MONTHS PREGNANT	150	30
<input checked="" type="checkbox"/>	Cows - Lactating - 1400lbs, Preg:0 Months, Exp. Birth Wt:85.00lbs	1400 LB COW LACTATING	150	30

Check or Uncheck the Ration Summary Files to include in the Ration Summary Report
Click View Ration Summary Report

Show feed components of mixes

 View Ration Summary Report

 Quit

This is the Ration Summary Report



**Print this report
to a PDF file**

COOBYTES 5.2.7AARD Summary Report
FULL VERSION

File: 1400 LB COW 5 MONTHS PREGNANT No. Head 150 No. Days 30
COWS - Dry - 1400lbs, Preg 5 Months, Exp. Birth Wt85.00lbs

Feed Name	Daily		Period		Package Type
	Weight	Packages	Weight	Packages	
ALF-GRASS HAY	2664.7	1.90	79940.0	57.1	Rnd. Bal
BARLEY STRAW	2823.0	3.14	84690.0	94.1	Rnd. Bal
18:18 MINERAL	9.0	0.16	270.1	4.9	Bag
FORT TMSALT+SE	8.9	0.20	268.4	6.1	Block
ADE 10 MILLION	0.9	0.02	26.8	0.6	Bag

File: 1400 LB COW 7 MONTHS PREGNANT No. Head 150 No. Days 30
COWS - Dry - 1400lbs, Preg 7 Months, Exp. Birth Wt85.00lbs

Feed Name	Daily		Period		Package Type
	Weight	Packages	Weight	Packages	
ALF-GRASS HAY	4568.7	3.26	137060.0	97.9	Rnd. Bal
BARLEY STRAW	1554.0	1.73	46620.0	51.8	Rnd. Bal
18:18 MINERAL	9.0	0.16	270.1	4.9	Bag
FORT TMSALT+SE	10.6	0.24	316.8	7.2	Block
ADE 10 MILLION	0.9	0.02	26.8	0.6	Bag
VIT E 50000	1.8	0.03	53.9	1.0	Bag

File: 1400 LB COW LACTATING No. Head 150 No. Days 30
COWS - Lactating - 1400lbs, Preg 0 Months, Exp. Birth Wt85.00lbs

Feed Name	Daily		Period		Package Type
	Weight	Packages	Weight	Packages	
ALF-GRASS HAY	3654.0	2.61	109620.0	78.3	Rnd. Bal
BARLEY STRAW	354.0	0.39	10620.0	11.8	Rnd. Bal
BARLEY GRAIN	2115.0	44.06	63451.2	1321.9	Blocks
18:18 MINERAL	9.0	0.16	270.1	4.9	Bag
FORT TMSALT+SE	13.5	0.31	404.8	9.2	Block
ADE 10 MILLION	2.0	0.04	59.5	1.3	Bag
VIT E 50000	3.0	0.05	90.2	1.6	Bag

Total Amounts and Costs

Feed Name	Lbs	Packages	Home Cost	Purchase Cost	Total Cost
ALF-GRASS HAY	326620.0	233.3	\$9,798.60	\$0.00	\$9,798.60
BARLEY STRAW	141930.0	157.7	\$1,419.30	\$0.00	\$1,419.30
18:18 MINERAL	810.2	14.73	\$0.00	\$427.17	\$427.17
FORT TMSALT+SE	990.0	22.5	\$0.00	\$270.00	\$270.00
ADE 10 MILLION	112.2	2.55	\$0.00	\$173.40	\$173.40
VIT E 50000	144.1	2.62	\$0.00	\$382.52	\$382.52
BARLEY GRAIN	63451.2	1321.9	\$5,618.08	\$0.00	\$5,618.08
			\$16,835.97	\$1,253.09	\$18,089.07

From the Top Menu Bar select **Edit Other Definition**

Other field definition

Use Other Information

Column Label
Nitrate

Input Units **Output Units**
% %

Required Amount **No. of decimals in output**
0.0 2

Enter this information and Check Use Other Information

COWBYTES 5.2.7 AARD - FULL VERSION

File Edit Feed Table Reports Yardage Calculator Help

Canadian units

Cows - Lactating - 1400lbs, Preg:0 Months, Exp. Birth Wt:85.00lbs

Ration Animal Type Feed Table Feeding Info Feed Mixes Client Info Water Modification Config Calculator

Feed Name	DM Fed %	As fed (lbs)	Molybdenum mg/kg	INDF %	eINDF % of INDF	DIP % of CP	UIP % of CP	MP	Ionophore mg/kg	Nitrate %
ALF-GRASS HAY	55.6	20.700							1.5	1.5
BARLEY STRAW	5.5	2.000							0	0.0
BARLEY GRAIN	38.4	14.100							0	0.0
18:18 MINERAL	0.2	0.060							0	0.0
FORT TMSALT+SE	0.3	0.090	0	0.0	0.0	100.0	0.0		0	0.0
ADE 10 MILLION	0.0	0.013	0	0.0	0.0	0.0	0.0		0	0.0
VIT E 50000	0.1	0.020	0	0.0	0.0	100.0	0.0		0	0.0

Enter 1.5 in the Nitrate Column for Alf-Grass Hay

Dry Matter Intake: Maximum 37.9, Recommended 32.5, Supplied 32.5 (lbs)

As Fed (lbs): 37, Pred. ADG (lbs): 0.3, To gain 1/2 BCS(Can): 383 days

Results Ratios Methan

Description	Molybdenum mg	Ionophore mg	Nitrate %
Recommended Nutrients per Day			0.00
Supplied from Ration	29	0	0.83

Description	mg/kg	%	% of INDF	% of CP	% of CP	mg/kg	%
Diet Concentration (DM)	2	41.7	71.3	78.8	21.2	0	0.8

The Total Diet Concentration of Nitrate is Calculated

Ration: Cowbytes Training 1400 lb Cow Tutorial.cml Feed Table: system.fml

COWBYTES 5.2.7 AARD - FULL VERSION

File Edit Feed Table Reports Yardage Calculator Help

Canadian units

Cows - Lactating - 1400lbs, Preg:0 Months, Exp. Birth Wt:85.00lbs

Ration Animal Type Feed Table **Feeding Info** Feed Mixes Client Info Water Modification Config Calculator

of days on this Ration: 30 # of head: 150 Yardage \$/hd/day: 0.35 Total Ration Cost (\$): 11758.93 Feed Cost/Lb of gain (\$): 7.74

Feed Name	Home	Purch	Package Weight	Package Type	Waste Factor	No. Packages
ALF-GRASS HAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1400	Feed Pel	15	79.2
BARLEY STRAW	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
BARLEY GRAIN	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
18:18 MINERAL	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
FORT TMSALT+SE	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
ADE 10 MILLION	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
VIT E 50000	<input type="checkbox"/>	<input checked="" type="checkbox"/>				

Name or Rename Ration Summary

Provide a name for this ration summary or
Click the dropdown box to choose
an existing ration summary to update

1400 LB COW LACTATING

Cancel Ok

**Select Feeding Info tab then select Save to Ration Summary
Click on the Drop Down Arrow and select
1400 LB COW LACTATING**

Manage Ration Summaries Save to Ration Summary Open Ration Summary Report

Ration: Cowbytes Training 1400 lb Cow Tutorial.cml Feed Table: system.fml

From the Top Menu Bar select **File Save**
Select **Cowbytes Training 1400 lb Cow Tutorial.cml**
click **Save**

