



# Using The Canola Meal Update in NDS

## Add The New Feedbank

- Download the Feedbank file
- Use the import export tool to import the file
- Click on feed analysis and import the file
- Open the feed file

# Import the File and View

Nutritional Dynamic System - NDS Professional

**NDS PROFESSIONAL** .Ver

Working group: First Working group  
Set cost: (\$/Tons) SET 1

Units system: English (selected), Metric, Mcal, MJoule

Energy Units: Mcal (selected), MJoule

Feedbank

Startup Costs Utility **Import/Export** Recent items Recent Farms

**Import/Export**

- Import
- Feeds analysis
- Feeds costs
- Recipes
- Composites
- Farms
- Settings

Export

- Import/Export
- Excel Export
- Synchronize nutrients

Import feature

← 1 Import file

**RU.M.&N.**  
NUTRITIONAL DYNAMIC SYSTEMS

Computer-based livestock nutrition management models and decision support aimed to apply the correct Precision Farm Management, improving the accuracy predictions and the potential in decision making.

Cattle

Single Farm Feeding Center

Farms Structure Farms ON

Nutrition

- Feeds
- Recipes
- Composites

← 2 Feeds

Management

- Feed Inventory
- Farm Economics

# Verify that Kd Pro= Kd CHO 3 is NOT checked, and KD Pro B2= 2.00

Nutritional Dynamic System - NDS Professional

**NDS PROFESSIONAL** Ver. 3.9.5.05

Working group: First Working group  
 Set costs (\$/Tons): SET 1

Main **Canola Meal Expeller (CCC)**

Canola Meal Expeller (CCC) [CBRc08990002] CNCPS [Conventional]: Canola Meal Expelled (CNCPS 02005)  
 Partition: Concentrates Oil seeds, meal mechanic and solvent extracted  
 12/5/2017 Miscellaneous  
 Medium ground

Feeds Save Save as Report Restore all

Forage	% D.M.		
Concentrate	% D.M.	100.000	100.000

Nutrient data entry **Constants calculation** Info Cloning User lists Quick data entry Additives Mycotoxins Inclusions Predefined amounts

Carbohydrates **Proteins** Amino acids Fatty acids Minerals/Bioavailability INRA

Restores

	% DM	% CP	Rates (Kd %/hr)		Int.Dig. (% escape)
Total CP	37.800				
NDIP	8.730	23.095			
ADIP C	3.137	8.299			
Soluble Protein	7.990	21.138			
Ammonia (A1)	0.094	0.249	200.000	200.000	100.000
Protein A2	7.896	20.889	18.000		100.000
Protein B1	21.080	55.767	8.000		100.000
Protein B2	5.593	14.796	2.000	5.600	80.000

uN (Ross N)  Kd PRO B2 = Kd CHO B3

# Check NDF digestibility

Nutritional Dynamic System - NDS Professional

**NDS PROFESSIONAL** Ver. 3.9.5.05

Working group: First Working group

Set costs (\$/Tons): SET 1

Units system: Metric

Main Canola Meal Expeller (CCC)

Canola Meal Expeller (CCC) [CBRC08990002] CNCPS [Conventional]: Canola Meal Expelled (CNCPS 02005)  
 Oil seeds, meal mechanic and solvent extracted  
 Miscellaneous  
 Medium ground

Partition: Concentrates  
 12/5/2017

Feeds Save Save as Report Restore all

Forage	% D.M.		
Concentrate	% D.M.	100.000	100.000

Nutrient data entry Constants calculation Info Cloning User lists Quick data entry Additives Mycotoxins Inclusions Predefined amounts

Carbohydrates Proteins Amino acids Fatty acids Minerals/Bioavailability INRA

Restores Classification NDF Digestibility

	% DM	% NDF	Rates (Kd %/hr)		Int.Dig. (% escape)
Total CHO	44.800				
aNDFom	29.860				
ADF	19.000	63.630			
ADL	6.540	21.902			
peNDF	11.944	40.000			
CHO B3 - pdNDF Lig*2.4	14.164	47.435	5.600		5.000
CHO C - uNDF Lig*2.4	15.696	52.565			
CHO C - uNDF	10.430	34.930			
CHO B3 - pdNDF	19.430	65.070			5.000
	% DM	% NFC	Rates (Kd %/hr)		Int.Dig. (% escape)
NFC	14.940				
Acetic (A1)					
Propionic (A1)					
Butyric (A1)					
CHO A1					100.000
Lactic (A2)			7.000	7.000	100.000
Organic Acids (A3)			5.000	5.000	100.000
Sugar (A4) (WSC)	7.990	53.481	40.000	40.000	100.000
Starch (B1)					
Soluble Fiber (B2)					
CHO B3 - pdNDF Lig*2.4					
CHO C - uNDF Lig*2.4					

Nutrient

- Moisture
- D.M.
- Crude Fiber
- aNDFom
- ADF
- ADL
- Forage aNDFom adjusted
- peNDF
- NSC
- NFC
- Total CHO
- Acetic (A1)
- Propionic (A1)
- Butyric (A1)
- Lactic (A2)
- Organic Acids (A3)
- Sugar (A4) (WSC)
- Starch (B1)
- Soluble Fiber (B2)
- CHO B3 - pdNDF Lig\*2.4
- CHO C - uNDF Lig\*2.4

# Values Should be populated!

Nutritional Dynamic System - NDS Professional

**NDS PROFESSIONAL** Ver. 3.9.5.05

Working group: First Working group  
Set costs (\$/Tons): SET 1

Main Canola Meal Expeller (CCC)

Canola Meal Expeller (CCC) [CBRc08990002] CNCPS [Conventional]: Canola Meal Expelled (CNCPS 02005)  
Partition: Concentrates Oil seeds, meal mechanic and solvent extracted  
12/5/2017 Miscellaneous Medium ground

Feeds Save Save as Report Restore all

Forage	% D.M.		
Concentrate	% D.M.	100.000	100.000

Nutrient data entry Constants calculation Info Cloning User lists Quick data entry Additives Mycotoxins Inclusions Predefined amounts

Carbohydrates **NDF Digestibility** Proteins Amino acids Fatty acids Minerals/Bioavailability INRA

aNDFom % DM 29.86  
ADL % DM 6.54 21.90 % NDF

Report Clean Reset

Hours	NDF Digestibility	ND residues	lag time hr	Kd %/hr
6				
12	38.680	0.6132		
24				
30				
48				
72	55.940	0.4406		
96				
120	65.040	0.3496		
240				
		average lag hrs	1.80	
		average Kd %/hr		8.74

Ruminal degradation rate for NDF (Kd CHO B3) calculated by the Raffrenato rate calculator.

NDF residue remaining

NDF digested

Moisture  
D.M.  
Crude F  
aNDFom  
ADF  
ADL  
Forage  
peNDF  
NSC  
NFC  
Total CF  
Acetic (A  
Propion  
Butyric (A  
Lactic (A  
Organic  
Sugar (A  
Starch (A

## NDF-d Values

Time, h	Expeller Canola	Solvent Canola
12	38.68	40.18
72	55.94	57.44
120	65.04	68.42

NB: Protein B2 Kd = 2.00 for both ingredients