User's Guide for Feed data in African and ASEAN countries

A project by NZAGRC and AFZ under the initiative of GRA

 https://www.feedipedia.org/ content/country-level-feeddata-calculate-greenhouse-gasemissions-africa-and-aseancountries

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#### Feed categories

#### All feeds

Forage plantsCereal and grass forages

- Legume foragesForage trees
- Aquatic plants

Other forage plants

#### Plant products/by-products

Cereal grains and by-products

Legume seeds and by-productsOil plants and by-products

Fruits and by-products

Roots, tubers and by-productsSugar processing by-products

Plant oils and fats

Other plant by-products
 Feeds of animal origin

Animal by-products

Dairy products/by-productsAnimal fats and oils

#### Country-level feed data to calculate greenhouse gas emissions (Africa and ASEAN countries)

As an initiative of the Global Research Alliance (GRA), the Association Française de Zootechnie (AFZ) in collaboration with the New Zealand Agricultural Greenhouse Gas Research Centre (NZAGRC), is providing country-level data for African and ASEAN countries to allow the estimation of greenhouse gas emissions from livestock

#### Preamble - very important information

This service is provided to the unique benefit of researchers involved in projects related to the New Zealand Agricultural Greenhouse Gas Research Centre or with the Global Research Alliance. When requesting access to the files, you will have to describe briefly your research project and you will agree on "Usage regulations" by signing and stamping the corresponding pdf that will be attached to your email.

#### Contents

Each file is an Excel spreadsheet (one per country) that contains raw and average data of chemical composition and nutritional values for feeds (raw materials and forages) collected and analyzed in African and ASEAN countries. From these data, users should be able to estimate the GHGs emissions of the livestock consuming diets including those feeds.

#### Eligibility and usage regulations

The access to the files and the use of the files are conditioned by Usage regulations. Once the user is given access to the file, they will be considered as having read and accepted these regulations. The files remain the exclusive property of AFZ. Any usurpation of rights will be prosecuted.

NZAGRC-AFZ data usage regulations.

Obtaining the files

AFZ GRA 4. Warranty and liability of AFZ NZAgRC 4. Wairanty and Hability OF AFZ. AFZ is not liable to the User for loss or damages, of any kind, in connection with the Data. The Hear harawith arknowladges that they are solally reconscible for the outcome of measures NZABRC AFZ is not liable to the User for loss or damages, of any kind, in connection with the Data. The User herewith acknowledges that they are solely responsible for the outcome of measures recultant of the Data or as a concentueore of their interpretation of the Data. GRA Preliminary information As an initiative of the Global Research Alliance, the Association Française de Zootechnie (hereafter referred to as externi in collaboration with the New Zealand Aericultural GraenMoura Gas Becaarch Usage regulations 5. Charges for data provision As an initiative of the Global Research Alliance, the Association Française de Zootechnie (hereafter referred to as "AFZ") in collaboration with the New-Zealand Agricultural GreenHouse Gas Research centre INTAGRC1 has worked to collect. Validate store, and disseminate data thereafter referred to 5. Charges for data provision The Data are provided free of charge to users working for academic organizations and using the the the the time of the t referred to as "AFZ") in collaboration with the New-Zealand Agricultural Greenhouse Gas Research Centre (NZAGRC) has worked to collect, validate, store, and disseminate data (hereafter referred to ar "the Data") on the chemical and nurritional value of feeds used for livestock feedine in ASEAN and The Data are provided free of charge to users working for academic organizations and using the Data for non-commercial projects. Other types of use of the Data will be subject to agreement with Ary Centre (NZAGRC) has worked to collect, validate, store, and disseminate data (hereafter referred to as "the Data") on the chemical and nutritional value of feeds used for livestock feeding in ASEM and African countries, with the purpose of using these data for the calculation of environmental values. as "the Data") on the chemical and nutritional value of feeds used for livestock feeding in ASEAN and African countries, with the purpose of using these data for the calculation of environmental values. The Data are provided as Microsoft Excel files, with each file corresponding to a country. African countries, with the purpose of using these data for the calculation of environment. The Data are provided as Microsoft Excel files, with each file corresponding to a country. Signature and d The Data are made available exclusively on the basis of the usage regulations presented in this document regulations have read the terms of use hereabove and I accept the usage nily name Who can apply?
 AFZ makes the Data available to individual users (hereafter referred to as "the User") working for areadomic neganizations. However, Individuals from non-academic organisations can apply for siven name: AFZ makes the Data available to individual users (hereafter referred to as "the User") working h Scademic organisations. However, individuals from non-academic organisations can apply for across for projects of academic and scientific nature. Access will be eranted on a case-hw-case Institution academic organisations. However, individuals from non-academic organisations can apply for access for projects of academic and scientific nature. Access will be granted on a case-by-case hasie General access conditions document. Date: and signature nature and stamp AFZ will provide the User with an identifier and a password to access the Data on Feedipe AFZ will provide the User with an identifier and a password to access the Data on Feedipe website. The User will be responsible for ensuring via technical and organizational meas Fill the above section, scan the page and send it to vaterie.heuze@zootechnie.fr Disemination of the Data by the User will be limited to the people involved in the st Dissemination of the Data by the User will be limited to the people involved in the 5 Scademic project as the User in their organisation, including co-workers and stude Discontinue to stude marine matrice while recommender is not recommitted only them can access the Data. For further information on access please contact: academic project as the User in their organisation, including co-workers Dissemination to third parties outside this perimeter is not permitted. Valérie Heuzé, AFZ, mailto: <u>valerie heuze@zootechnie.fr</u> UDligations
 If the User authors a publication using the Data, the user will cite the source 7 <u>Tel : +336 73 34 64 49</u> AFZ-NZAGRC, 2022. Feed data for African and ASEAN countries, AFZ, Paris, ACCESS PROVIDED AT L-NLINGING, LULL TEED DATA TOT ATTICAN AND ASEAN COUNTY https://www.feedipedia.org/node/27625, 3 October 2022 The User will send a copy of the publication to AFZ in electronic form (F b) reach or usage regulation
 In the event of a breach of usage regulation, the User will be instrumented to the user instrument to the user instrument. publication at the latest. Adding a citation to published material if the citation Adding a criation to published material if the citation
Ensuring that unauthorized third parties no longer h measures, including: Lack of compliance from the User will result in the terminy Lack of compliance from the User wit result in the termin the breach was found to have damaging consequences c the breach was found to have bamaging consequences c seeking legal remedies, including monetary compensat AF7



Gamba grass (Andropogon gayanus)

Gamba grass (Andropogon gayanus Kunth) is a perennial leafy grass of tropical... Read more



Zornia (Zornia glabra) Zornia (Zornia glabra Desv.) is a perennial legume grown for forage in Latin... Read

1 2 3 4 5 ... next> last»

more



False Rhodes grass (Trichloris crinita)

False Rhodes grass (*Trichloris crinita* (Lag.) Parodi) is a perennial grass... Read more make the use of pulses and their by-products as animal feed more efficient. This document will be useful for extension workers, researchers, feed industry, policymakers and donors alike.



Open access document. This paper puts forward a case for formulation of a regional animal feed action plan (RAFAP) and highlights its potential benefits.

More resources...



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#### Country data f Food and Agriculture Organization of the United Nations Animal feed resources 6 0 Home About Feedipedia Partners Sponsoring Contact us Team Did you find the information you were looking for? Is it valuable to you? Feedipedia is encountering funding Search Feedipedia Donate Search shortage. We need your help to keep providing reference-based feeding recommendations for your animals. Would you consider donating? If yes, please click on the button Donate. VISA 🔤 🖬 BANK Sponsored by Any amount is the welcome. Even one cent is helpful to us! **4DISSEO** Search Content Users Automatic translation country data Search Sélectionner une langue ~ Advanced search Fourni par Google Traduction Search results Feed categories Country-level feed data to calculate greenhouse gas emissions (Africa and ASEAN countries) All feeds ... Greenhouse Gas Research Centre (NZAGRC), is providing country-level data for African and ASEAN countries to allow the Forage plants estimation of greenhouse gas ... Cereal and grass forages

admin - 10/17/2022 - 11:15

Scientific names	<ul> <li>NZAGRC-AFZ data usage regulations.</li> </ul>
	Obtaining the files
Plant and animal families	
Plant and animal species	The files are provided for free. Once you have read the Usage regulations and checked your eligibility (being involved in a research
Tools	project dealing with GHGs emissions from livestock and related to NZAGRC), you can send a motivated request to Valerie Heuze at valerie.heuze@zootechnie.fr.
FAO Ration Tool for dairy cows	If your request is granted, you will be given an identifier and a password that will give you access to the files by clicking on the link
FAO Laboratory Audit Tool	below:
	• African and ASEAN data on feed materials (authorized users only).

# 58 country data files

+ 1 Eastern Africaunspecified file+ 1 South

#### Eastern-Asia unspecified file

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		Home	About Feedipedia	Team P	artners S	Sponsoring	Contact us
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and part	<ul> <li>List of Excel data files by country (3 Octobe</li> </ul>	er 2022).					
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### Excel files with 4 spreadsheets

Association Française d	e Zootechnie – New Z	Zealand Agriculture Green	house Gas Research Center			
	An initiative of th	e Global Research Alliance				
Feed data for Alger	Algeria - raw data		126 samples			
This file contains raw and average val	Feed class	Feed name	Sample 🛛 DM (% as fec 🔽 Ash (% DM 🝸			
data originate from the Feedinadia da	Wheat	Wheat, soft	423941 87,20			
Creation data: 02/10/2022	Wheat	Wheat,				
	Wheat	Wheat, Algeria - averages		57 feeds		
Usage regulations	Wheat	Wheat, Feed class	Feed name	🔽 Coun 🝸 DM (% as fec 🍸 Ash (% I	DM 🝸 DMd_Ruminant (% 🍸	
Click here to read and accent the Usa	Maize	Maize Wheat	Wheat, soft	4 87,68	1,59	
chek here to read and accept the osa	Maize	Maize Maize	Algeria - list of parameters			
	Maize	Maize Maize	Parameter	Full name		Definition
Data organization	Maize	Maize Wheat milling byproducts	ADE (% DM)		Main analysis	Acid Detergent Fiber, fraction of the cell walls according
The 'Baw data' sheet shows the raw d	Maize	Maize Wheat milling byproducts	Ash (% DM)	Ash	Main analysis	Ash remaining after incineration, a rough approximation
The 'Averages' sheet shows average d	Maize	Maize Wheat starch byproducts	AshSulf (% DM)	Sulfated ash	Main analysis	The solid residue left after treatment with sulfuric acid a
The 'Darameters' sheet shows average u	Maize	Maize Sovbean meal	(Ca (% DM)	Calcium	Main analysis	Calcium (Ca).
The Parameters sheet shows the list	Maize	Maize Olive pulp and meal	( CF (% DM)	Crude fibre	Main analysis	Crude fibre, also known as Weende cellulose, insoluble re
Column A: name of the country and t	Maize	Maize Olive pulp and meal	( CFd_Ruminant (%)	Crude fibre digestibility, ruminant	Ruminant nutritive values	Crude fibre digestibility, ruminant
Column C: total number of samples ('	Maize	Maize Grapeseed pulp and meal	( Chlorides (% DM)	Chorides (expressed in NaCl)	Secondary minerals and trace element	chorides, expressed in NaCl : NaCl = Chlorine x 58.5/35.5
Please read each row up to the right a	Maize	Maize Grapeseed pulp and meal	( CI (% DM)	Chlorine	Secondary minerals and trace element	Chlorine (Cl), not expressed as chloride. NaCl = Chlorine
first columns for easier use.	Maize	Maize Fruits and vegetables	[ CP (% DM)	Crude protein	Main analysis	Crude protein, calculated as mineral N x 6.25. N is obtain
	Maize	Maize Molasses	ر Cu (mg/kg DM)	Copper	Secondary minerals and trace element	Copper (when a trace element)
Data filtaring	Maize	Maize, Hulls and pods	DM (% as fed)	Dry matter	Main analysis	Dry matter, difference between the total weight and the
Data Intering	Maize	Maize, Other plant byproducts	ر DMd_Ruminant (%)	Dry matter digestibility, ruminant	Ruminant nutritive values	Dry matter digestibility, ruminant
By default, the sheets display all the c	Maize	Maize, Other plant byproducts	[ DMdPeps (%)	Dry matter digestibility, pepsine	In vitro digestibility and solubility	Dry matter digestibility, pepsine
on the arrow button next to each colu	Wheat milling byproducts	Wheat Dehydrated alfalfa	/ DMdPepsCell (%)	Dry matter digestibility, pepsine-cellulase	In vitro digestibility and solubility	Dry matter digestibility, pepsine-cellulase
Filter by item	Wheat milling byproducts	Wheat Hays and dry roughages from othe	Fat (% DM)	Crude fat	Main analysis	Crude fat, extracted by diethyl ether, petroleum ether or
To filter by Feed class or Feed name (	Wheat milling byproducts	Wheat Hays and dry roughages from othe	P Fatd_Ruminant (%)	Crude fat digestibility, ruminant	Ruminant nutritive values	Crude fat digestibility, ruminant
To filter by reed class of reed fiame (	Wheat milling byproducts	Wheat IStraws	[GasProd (ml/200g)	Gas production	Ruminant nutritive values	Gas production obtained by fermentation of a 200 mg sa
column header arrow and choose one	Wheat milling byproducts	Wheat IStraws	GE (Kcal/kg DM)	Gross energy	Main analysis	Gross energy, obtained by the total combustion in an call
practical to uncheck first 'Select all', a	Wheat milling byproducts	Wheat IFresh roughages from legumes	(InsolAsh (% DM)	Insoluble ash	Main analysis	Insoluble ash, residue after incineration and treatment w
Filter by value	Wheat milling byproducts	Wheat I Fresh roughages from legumes	(K (% DN)	Potassium	Main analysis	Potassium
In the 'Raw data' and 'Averages' sheet	Wheat milling byproducts	Wheat I Fresh roughages from legumes	Lignin (% DM)	Lignin	Main analysis	Lighin, usually obtained by the van soest method. Acid D
the rows with a crude protein value h	Wheat milling byproducts	Wheat I Fresh roughages from legumes	Mg (70 DM)	Magnesium	Facondary minorals and trace element	(Magnesium)
the filter critera (10), and press OK	Wheat milling byproducts	Wheat Presh roughages from legumes		Sodium	Main analysis	Sodium (Na)
Sorting the rows	Wheat milling byproducts	Wheat i Fresh roughages from other plant	Nd Ruminant (%)	Nitrogen digestibility, ruminant	Ruminant nutritive values	Nitrogen digestibility ruminant
	Wheat starch byproducts	Wheat Fresh roughages from other plant		NDF	Main analysis	NDE fraction of the cell walls according to Van Spest, co
For any numeric column, the sorting a	Soybean meal	Soybear Fresh roughages from other plant	OMd Ruminant (%)	Organic matter digestibility ruminant	Ruminant nutritive values	Organic matter digestibility ruminant
(Sort Largest to Smallest) value. For te	Soybean meal	Soybear Fresh roughages from other plant	of OMdPensCell (%)	Organic matter digestibility, pensine-cellular	se In vitro digestibility and solubility	Organic matter digestibility, reminant
		Fresh roughages from other plant	I P (% DM)	Phosphorus	Main analysis	Total phosphorus (P)
		Fresh roughages from other plant	PSoluble (% P)	Phosphorus solubility (citric acid)	Secondary minerals and trace element	Phosphorus solubility in citric acid. It is a measure of pho
		Fresh roughages from other plant	s (Soln KOH (% N)	Nitrogen solubility (KOH)	In vitro digestibility and solubility	Nitrogen solubility in KOH
		Fresh roughages from other plant	s I SolNBuffer (% N)	Nitrogen solubility, buffer solution	In vitro digestibility and solubility	Nitrogen solubility in a buffer solution (Durand method a
			SolProtKOH (% DM)	Soluble proteins, KOH	In vitro digestibility and solubility	Soluble proteins = total proteins x N solubility in a KOH s
			StarchPolarimetry (% DM)	Starch (polarimetry)	Main analysis	Starch measured by polarimetry, usually the Ewers method
			Sugars (% DM)	Total sugars	Main analysis	Total sugars, obtained by various methods

# Introduction spreadsheet

Provides the name of the country

Refers (again ;-) ) to the « Usage regulations » file and allows to go there by clicking on the link

Explains what kind of data can be found in the file and how they are displayed

Provides tips to filter the data according to your needs

# Introduction spreadsheet

Association Française de Zootechnie – New Zealand Agriculture Greenhouse
Gas Research Center
Country         Feed data for Algeria       Country         This file contains raw and average values of chemical composition and in vivo data for feeds (raw materials and forages) collected in Algeria. The data originate from the Feedipedia database operated by AFZ.         Usage regulations       Important information about the correct use of these data         Click here to read and accept the Usage regulations for this file.
Data organization
The 'Parameters' sheet shows the list of parameters (nutriments, digestibility etc.) available, with their definitions.
Column A: name of the country and type of data (raw or average)
Column C: total number of samples ( Raw data sneet) or total number of reeds ( Averages sneet)
Data filtering By default, the sheets display all the data sorted by column header. This will open a panel with various sorting and filtering options.
Filter by item
To filter by Feed class or Feed name ('Raw data' and 'Averages' sheets), or by Parameter, Full name, or Class name ('Parameters' sheet), click on the column header arrow and choose or several items by clicking on the check boxes. Since all the check boxes are checked by default, it is practical to uncheck first 'Select all', and then select the boxes you want to show.
Filter by value
In the 'Raw data' and 'Averages' sheet, you can filter the sheets by value using the Number filters in the filter options panel. For instance, to filter the rows with a crude protein value higher than 10%, click on the 'CP (% DM)' header arrow, choose Number filters, click on Greater than, enter the filter critera (10), and press OK.
Sorting the rows

For any numeric column, the sorting and filtering panel makes it possible to sort the rows by increasing (Sort Smallest to Largest) or decreasing (Sort Largest to Smallest) value. For text columns, the rows can be sorted alphabetically (Sort A to Z) or in reverse order ('Sort Z to A').

### Raw data spreadsheet

- Provides all composition and nutritive raw data about feeds and forages that have been analysed in the country and collected in our database for 30 years
- The **Raw data** spreadsheet is a table of 38 columns and 128 lines for the AgResNZ\_Algeria.xlsx file:
- The 38 columns include Feed Class and Feed Name and 35 parameters of composition and nutritive value
- The rows represent the number of samples present in the database for Algeria:
  - One row = one sample
- Empty cells : since feedstuffs are rarely fully analysed, there are many empty cells and it is advised to move to the end of the row to see all parameters
  - Composition parameters
    - DM (dry matter) or CP (Crude Protein) are very important and they are commonly reported.
    - NDF, ADF or Lignin, or amino acids are scarcer.
  - Nutritive values
    - DM digestibility, which is important for the calculation of GHGs, as well as other *in vivo* parameters are difficult and expensive to obtain, and are thus seldom available.

### Raw data spreadsheet content explained



## Averages spreadsheet

- The average data spreadsheet shows the number of feeds available in the database for the country (column C)
- Provides average composition and nutritive data for a feed name (Column B)
- One row = average value for one feed
  - Average values for "wheat, soft"
- Composition parameters and nutritive values are averaged: the values indicated for "Wheat, soft" are the average values of the 4 samples listed in the Raw data spreadsheet
- If there are empty cells, the average value is calculated only on cells that contain values:
  - For "Dates (Phoenix dactylifera), pitted, dehydrated", there were only one sample with a DMd\_ruminants (72.20) so the average value will be 72.20.

## Averages sheet

Total number of feeds (Feed names) for Algeria in our database											
Algeria - averages		57 feeds		С	ount: n	umber o	of sample	es of the sa	ame Feed		
			DM (9	% as	Nd	_Ruminant	DMdPeps	DMdPepsCell	OMd_Ruminant	OMdPepsCell	СР (%
Feed class	Feed name	Count	fed)	(אט)	(%)		(%)	(%)	(%)	(%)	DM)
Wheat	Wheat, soft	4		87.68	1.59						12.94
Maize	Maize	13		86.19	1.40						9.32
Maize	Maize, protein > 11%	3		91.37	1.77						13.57
Wheat milling byproducts	Wheat bran, crude fibre 6-13%	3		87.40	5.01						16.97
Wheat milling byproducts	Wheat feed flour, crude fibre < 3%	5		87.19	1.71						13.59
Wheat milling byproducts	Wheat middlings, crude fibre 2.5-10%	3		87.83	2.73	DMd F	Ruminant	average v	alue is calcu	lated only	on .80
Wheat starch byproducts	Wheat germs	1		88.40		colle th	nat are no	nt amnty l	loro the ave	rago value	.86
Soybean meal	Soybean meal, oil < 5%	9		88.91	7.59			Ji empiy. i		iage value	. 15 .86
Olive pulp and meal	Olive oil cake, oil < 5%	1		76.20	3.02	that o	n the uni	que sampl	e with a DM	ld_Rumina	int .82
Olive pulp and meal	Olive oil cake, oil > 5%	1		91.48				val			.87
Grapeseed pulp and meal	Grape pomace, dehydrated	1		90.80	12.22			var	ue		ه.42
Grapeseed pulp and meal	Grape pomace, ensiled	1		43.10					28.20	)	14.20
Fruits and vegetables	Dates (Phoenix dactylifera), pitted, dehydrated	2		86.95	6.07	72.2	0		76.39	)	3.71

### Parameters spreadsheet

- The Parameters spreadsheet is the list of the 35 parameters reported in the Raw data and Average data spreadsheets
- Each row corresponds to a single Parameter. It has 4 columns:
  - 1. The short name and unit of expression of the Parameter,
  - 2. Its Full Name,
  - 3. Its Category : Main analysis, Ruminant Nutritive value, Secondary minerals and trace elements, In vitro digestibility and solubility, etc.
  - 4. Its Definition with a brief description of the method used to measure it.

### Parameters sheet

#### Algeria - list of

parameters

Parameter	Full name	Class name	Definition
			Acid Detergent Fiber, fraction of the cell walls according to Van Soest, considered to be roughly equivalent to
ADF (% DM)	ADF	Main analysis	true cellulose and lignin. ADF = cellulose + lignin
Ash (% DM)	Ash	Main analysis	Ash remaining after incineration, a rough approximation of mineral matter.
			The solid residue left after treatment with sulfuric acid and incineration (800°C) in the presence of oxygen.
AshSulf (% DM)	Sulfated ash	Main analysis	This method is used for sugar products, including molasses.
Ca (% DM)	Calcium	Main analysis	Calcium (Ca).
			Crude fibre, also known as Weende cellulose, insoluble residue of an acid hydrolysis followed by an alkaline
			one. This residue contains true cellulose and insoluble lignin. It is also used to assess hair, hoof or feather
CF (% DM)	Crude fibre	Main analysis	residues in animal byproduct.
	Crude fibre		
	digestibility,	Ruminant	
CFd_Ruminant (%)	ruminant	nutritive values	Crude fibre digestibility, ruminant

# Visualisation of data by filtering and/or sorting

- All sheets can be filtered and sorted so as to go only to the feeds or values you are interested in.
- The file appears with arrows at the corner of each cell of the second line which means that the filtering option is set

Algeria - raw data		$\sim$	126 samples			$\frown$
Feed class	Fred name	-	Sample 🗖	DM (% as fed) ▼	Ash (% DM) 🔻	DMd_Ruminant (%)
Wheat	Wheat, soft		423942	87,20		
Wheat	Wheat, soft		424223	88,00	1,59	

• By default, the sheets display all the data sorted by Feed class and Feed name. If you want to see only part of the rows or sort them differently, click on the arrow button next to each column header. This will open a panel with various sorting and filtering options.

### Sorting the data

	9 · 9 ·	Paste	Transpose	Calibri $\sim$ 11 $\sim$ A^ A <sup>*</sup> A <sup>*</sup> $A^*$ $Z \downarrow$ Sort A to Z	Ξ	
	Undo	Clipboard 🕠	Nouveau groupe	$\overrightarrow{A}$ Sort Z to A		
Ra	aw_data	$\bullet \bullet \vdots \times \checkmark$	<i>fx</i> Wheat	Sor <u>t</u> by Color	>	
		А		Sheet <u>V</u> iew	>	
1	Alge	eria - raw c	lata	Sciear Filter From "Feed class"		
2	Feed cla	ISS	-			
3	Wheat			F <u>i</u> lter by Color	>	
4	Wheat			Text <u>F</u> ilters	>	
5	Wheat					
6	Wheat			Search	Q	
7	Maize			✓ (Select All)		
8	Maize			✓ Algae and aquatic plants		
9	Maize			- ✓ Calcium carbonates		
10	Maize					
11	Maize			- V Dung and other animal faeces		
12	Maize					

Note that th

case shows

 All sheets can be sorted by increasing or decreasing order (alphabetical or numerical): here sorted from A to Z

	Algeria - raw data	$\frown$				126 sampl	es
	Feed class	<b>↓</b> ↑	Feed	l name	•	Sample	•
	Algae and aquatic plants		Seav	veed (Ulva lactuca), dried		6577	73
	Calcium carbonates		Mar	ble, coarsely ground		3833	65
	Calcium carbonates		Mar	ble, coarsely ground		3833	66
	Calcium carbonates		Mar	ble, coarsely ground		3833	68
	Calcium carbonates		Mar	ble, finely ground		4551	66
	Dehydrated alfalfa		Alfal	lfa, dehydrated, protein < 12%		6487	39
	Dung and other anim		Poultry droppings, dried				
	Fish meals and fis		Fish	meal, protein < 50%, ash > 50%		6209	91
<b>6</b>	hlack arrow in the	σιον	,	a (Acacia horrida), aerial part, fresh		6866	02
Ľ		BICY		a (Acacia saligna), aerial part, fresh		6866	03
t	hat the data are sor	rted		ree (Faidherbia albida), aerial part, fresh		6866	04

### Filtering the data by item



bri ~ 11 ~ A^ A`	$\equiv$	Ξ
		_
. <u>S</u> ort A to Z		=
. S <u>o</u> rt Z to A		
Sor <u>t</u> by Color	>	
Sheet <u>V</u> iew	>	
<u>Clear Filter From "Feed class"</u>		
F <u>i</u> lter by Color	>	
Text <u>F</u> ilters	>	
Search	$\mathcal{O}$	
<ul> <li>(Select All)</li> <li>Algae and aquatic plants</li> <li>Calcium carbonates</li> <li>Dehydrated alfalfa</li> <li>Dung and other animal faeces</li> <li>Fish meals and fish solubles</li> <li>Forage trees</li> <li>Fresh roughages from legumes</li> <li>Fresh roughages from other plants</li> <li>Fruits and vegetables</li> <li>Grapeseed pulp and meal</li> <li>Hays and dry roughages from other</li> </ul>		
OK Cancel		

 to filter by Feed class or Feed name ('Raw data' and 'Averages' sheets), or by Parameter, Full name, or Class name ('Parameters' sheet), click on the column header arrow and choose one or several items by clicking on the check boxes. Since all the check boxes are checked by default, it is practical to uncheck first 'Select all', and then select the boxes you want to show.

## Filtering the data by item

 It is also possible to filter on text containing words or some characters using the "text filters" as shown in red hereafter, which will open the next panel on the right

<ul> <li>✓ ✓</li> <li>✓ ✓</li> <li>✓ ✓</li> <li>Paste</li> <li>✓ ✓</li> <li>✓ ✓</li> </ul>	Calibri v 11 v A^ A' A' A' A Z J Sort A to Z	= = =
Undo Clipboard 🛛 🖌 Nouveau groupe	ZA↓ Sort Z to A	
B14 $\checkmark$ : $\times \checkmark f_x$ Maize	Sor <u>t</u> by Color	>
Α	Sheet <u>V</u> iew	>
Algeria - raw data	Clear Filter From "Feed class"	
2 Feed class	Filter by Color	>
4 Wheat	Text Filters	>
5 Wheat		
5 Wheat	Search	$\mathcal{Q}$
7 Maize	Select All)	
3 Maize	Algae and aquatic plants	
9 Maize		

B1	4	Custom Autofilter		?	X		
		Show rows where:					С
		Show rows where.					
	Algeri	Feed class					126 samples
2	Feed class	contains $\checkmark$ forage			$\sim$	-	Sample 🔽
3	Wheat	And O Or					423941
1	Wheat						424223
5	Wheat						467043
5	Wheat	Use 2 to represent any single character					467045
7	Maize	Use * to represent any series of characters					356143
3	Maize	ose to represent any senes of enaluciers					424440
)	Maize		OK	Can	cel		457448
0	Maize	IVIGIZE					457502
1	Maize	Maize					467685
2	Maize	Maize					467763

## Filtering the data by item: the results

 Filtering by item: results after selecting « forage trees » in the list appearing below the arrow of Feed class

Algeria - raw data			126 samples			
Feed class	Ş	Feed name	Sample 🔽	DM (% as fed) 🔻	Ash (% DM) 🔽	DMd_Ruminant (%) <mark>-</mark>
Forage trees		Acacia (Acacia horrida), aerial part, fresh	686602		10,50	
Forage trees		Acacia (Acacia saligna), aerial part, fresh	686603		10,10	
Forage trees		Ana tree (Faidherbia albida), aerial part, fresh	686604		6,40	
Forage trees		Babul (Acacia nilotica), aerial part, fresh	686601		8,00	
Forage trees		Date (Phoenix dactylifera), aerial part, dry	669521	94,37	15,25	37,80
Forage trees		Mimosa (Albizia julibrissin), aerial part, fresh	686605		12,80	
Forage trees		Pomegranate (Punica granatum), aerial part, fresh	686607		8,90	

Note that the black filter in the grey case shows that the data are filtered

# Filtering the data by value (1/3)

In the 'Raw data' and 'Averages' sheet, you can filter the sheets by value using the Number filters in the filter options panel. For instance, to filter the rows with a crude protein value higher than 10%, click on the 'CP (% DM)' header arrow, choose Number filters, click on Greater than...

₽ • ₹ •	Paste	<ul><li>✔</li><li>✔</li><li>✔</li><li>✔</li><li>✔</li><li>✔</li><li>✔</li><li>✔</li><li>✔</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li>𝔅</li><li></li></ul>	Calibri     ↓     20       B     I     U     ↓       I     U     ↓	→ A^ A` <u>A</u> → <u>A</u> →	= = <u>=</u>	) ≫⁄		eneral ■ ~ % 9 0 _00 0 →00		Condit Format Ce Z	ional Formatting ∽ t as Table ∽ ↓ <u>S</u> ort Smallest to La	Insert ×	Σ
Undo	Clipboard	R∎ Nouveau groupe	Font	<sub>ل</sub> دا	Alic	Inment	Гы	Number	L7	Z	↓ S <u>o</u> rt Largest to Sm	allest	
A1 $\checkmark$ : $\land \checkmark$ $f_x$ Algeria - averages         Sort by Color								>					
<b>4</b>	А		В	С	D	E	F	G		H	Sheet <u>V</u> iew		>
1 Algeria - averages		57 feeds							7				
2 Feed class		Feed name		🝸 Count 🍸 [	DM (% as fed 🍸 A	Ash (% DM 🝸 🛙	0Md_Ruminant (%	DMdPeps (	% 🝸 DMdP	eps	$\stackrel{<}{\times}$ <u>C</u> lear Filter From "	CP (% DM)"	
3 Wheat		Wheat, soft		4	87,68	1,59							
5 Maize		Maize, prote	in > 11%	3	91,37	1,77					F <u>i</u> lter by Color		/
6 Wheat mill	ing byproducts	Wheat bran,	crude fibre 6-13%	3	87,40	5,01				1	Number Filters		5
7 Wheat mill	ing byproducts	Wheat feed f	flour, crude fibre < 3%	5	87,19	1,71	<u>E</u> quals			•	Number <u>F</u> ilters		-
8 Wheat mill	ing byproducts	Wheat middl	lings, crude fibre 2.5-10%	3	87,83	2,73					C I		
9 Wheat star	ch byproducts	Wheat germs	S	1	88,40		Does <u>N</u>	<u>l</u> ot Equal			Search		
10 Soybean m	eal	Soybean mea	al, oil < 5%	9	88,91	7,59	l			_			
13 Grapeseed	pulp and meal	Grape poma	ce, dehydrated	1	90,80	12,22	✓ Greate	r Than					
14 Grapeseed	pulp and meal	Grape poma	ce, ensiled	1	43,10						1,11		
20 Dehydrated	d alfalfa	Alfalfa, dehy	drated, protein < 12%	1	93,10		Greate	r Than Or Eq	ual To				
21 Hays and dry roughages from other plant: Sulla (Hedysarum flexuosum), hay		1	88,50	14,12	Greate	r man <u>O</u> r Eq	uai 10		2 71				

# Filtering the data by value (2/3)

Algeria - averages		57 feeds								
Feed class	Feed name	Count 💌 DM (%	6 as fed 💌	Ash (% DM 💌	DMd_Ruminant (%	DMdPeps (% 🔻	DMdPepsCell (%	OMd_Ruminant (% 🔻	OMdPepsCell (%	🔽 CP (% DM 🔽 NDF (\$
Wheat	Wheat, soft	4	87,68	1,59						12,94
Maize					2					9,32
Maize	Custom Autofilter				: X					13,57
Wheat milling byproducts										16,97
Wheat milling byproducts	Show rows where:									13,59
Wheat milling byproducts	CP (% DM)									14,80
Wheat starch byproducts										29,86
Soybean meal	is greater than $\checkmark$ 10				~					51,86
Olive pulp and meal										6,82
Olive pulp and meal	<u>A</u> nd () <u>O</u> r									6,87
Grapeseed pulp and meal										15,42
Grapeseed pulp and meal								28,20	)	14,20
Fruits and vegetables								76,39	)	3,71
Molasses	Lise 2 to represent any single character									1,11
Hulls and pods	ose i to represent any single character						73,96		73,9	92 7,22
Other plant byproducts	Use * to represent any series of characters					1	52,42	48,08	51,8	39 9,58
Other plant byproducts										6,31
Dehydrated alfalfa				OK	Cancel					12,35
Hays and dry roughages from other plan	t									16,61
Hays and dry roughages from other plant: Vetch and oat hay			91,15	7,74						8,05

• Filtering values of CP higher than 10% : after clicking on Greater than the next panel shows Custom autofilter panel: enter the filter criteria (10), and press OK.

### Filtering the data by value: the results (3/3)

All value of CP higher than 10%

Algeria - averages				•
Feed class	Feed name 🔻	OMd_Ruminant (%) 🔻	OMdPepsCell (%)	CP (% DM) 🕶
Wheat	Wheat, soft			12,94
Maize	Maize, protein > 11%			13,57
Wheat milling byproducts	Wheat bran, crude fibre 6-13%			16,97
Wheat milling byproducts	Wheat feed flour, crude fibre < 3%			13,59
Wheat milling byproducts	Wheat middlings, crude fibre 2.5-10%			14,80
Wheat starch byproducts	Wheat germs			29,86
Soybean meal	Soybean meal, oil < 5%			51,86
Grapeseed pulp and meal	Grape pomace, dehydrated			15,42
Grapeseed pulp and meal	Grape pomace, ensiled	28,20		14,20
Dehydrated alfalfa	Alfalfa, dehydrated, protein < 12%			12,35
Hays and dry roughages from other plants	Sulla (Hedysarum flexuosum), hay			16,61
Fresh roughages from legumes	Barrel medic (Medicago truncatula), aerial part, fresh			24,74
Fresh roughages from legumes	Ciliate medick (Medicago ciliaris), aerial part, fresh			27,31
Fresh roughages from legumes	Faba bean, aerial part, fresh			19,38
Fresh roughages from legumes	Hedgehog medick (Medicago intertexta), aerial part, fresh			22,76
Fresh roughages from legumes	Sulla (Hedysarum coronarium) aerial part, fresh			18,36

A I . .

# Using the filtered /sorted results

Once you have filtered the values/items you can copy and paste the results in a new file to start making your own calculations.

Always think about removing prior filters or sorts when you start a new task

