

Free/Open-Source Least-Cost Feed Formulation

Introduction:

LibreFeed is the revolutionary free/open-source least-cost feed formulation software developed by Sysnova Information System Ltd.

Our Mission:

Feed manufacturing requires solving all the following problems:

1. Cost Optimization
2. Meeting required nutritional specifications for each formulation
3. Using available raw materials
4. Using current market prices.

LibreFeed software is the comprehensive free/open-source tool designed to meet the formulation needs of professional nutritionists and feed producers.

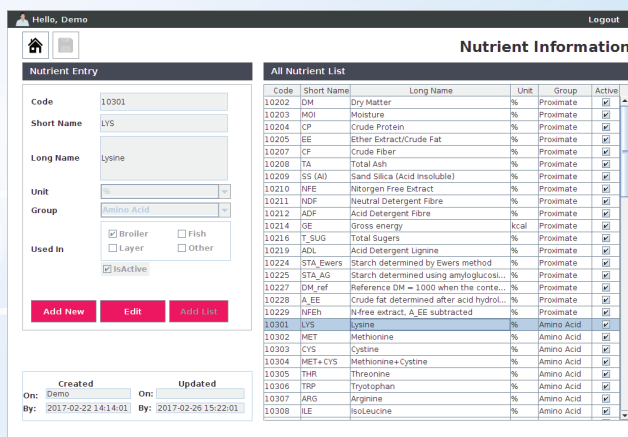
- The free/open-source nature of LibreFeed also makes it ideal for use in academic institutions and universities.
- LibreFeed is user-friendly and simple to download and set up on any desktop or laptop computer.
- LibreFeed is customizable and easily allows any nutritionist to enter unlimited numbers of ingredients and formulations.

LibreFeed aims to bring benefits of the free/open-source software movement to the global livestock industry.

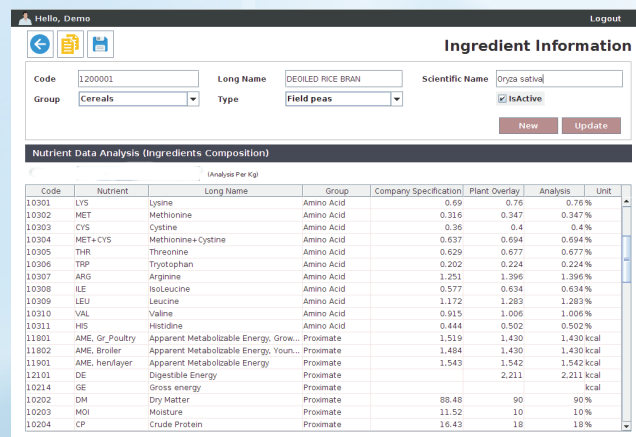
Functional Features:

Ingredients:

LibreFeed contains a default nutritional database for major ingredients like maize/corn, wheat, wheat bran, rice, rice bran, soybean meal and soybean oil based on well-established USDA (United States Department of Agriculture) nutritional specifications. Users can edit these nutritional specifications and add unlimited ingredients.



Code	Short Name	Long Name	Unit	Group	Active
10202	DM	Dry Matter	%	Proximate	<input checked="" type="checkbox"/>
10203	MOI	Moisture	%	Proximate	<input checked="" type="checkbox"/>
10204	CP	Crude Protein	%	Proximate	<input checked="" type="checkbox"/>
10205	EE	Ether Extract/Crude Fat	%	Proximate	<input checked="" type="checkbox"/>
10207	CF	Crude Fiber	%	Proximate	<input checked="" type="checkbox"/>
10208	TA	Total Ash	%	Proximate	<input checked="" type="checkbox"/>
10209	SS (A)	Sand Silica (Acid Insoluble)	%	Proximate	<input checked="" type="checkbox"/>
10210	NFE	Nitrogen Free Extract	%	Proximate	<input checked="" type="checkbox"/>
10211	NDF	Neutral Detergent Fibre	%	Proximate	<input checked="" type="checkbox"/>
10212	ADF	Acid Detergent Fibre	%	Proximate	<input checked="" type="checkbox"/>
10214	GE	Gross energy	kcal	Proximate	<input checked="" type="checkbox"/>
10216	T_SUG	Total Sugars	%	Proximate	<input checked="" type="checkbox"/>
10219	ADL	Acid Detergent Lignine	%	Proximate	<input checked="" type="checkbox"/>
10224	STA_Ewers	Starch determined by Ewers method	%	Proximate	<input checked="" type="checkbox"/>
10225	STA_AG	Starch determined using amyloglucos...	%	Proximate	<input checked="" type="checkbox"/>
10227	DM_ref	Reference DM = 1000 when the come...	%	Proximate	<input checked="" type="checkbox"/>
10228	A_EE	Crude fat determined after acid hydrol...	%	Proximate	<input checked="" type="checkbox"/>
10229	NFEh	N-free extract, A_EE subtracted	%	Proximate	<input checked="" type="checkbox"/>
10301	LYS	Lysine	%	Amino Acid	<input checked="" type="checkbox"/>
10302	MET	Methionine	%	Amino Acid	<input checked="" type="checkbox"/>
10303	CYS	Cystine	%	Amino Acid	<input checked="" type="checkbox"/>
10304	MET+CYS	Methionine+Cystine	%	Amino Acid	<input checked="" type="checkbox"/>
10305	THR	Threonine	%	Amino Acid	<input checked="" type="checkbox"/>
10306	TRP	Tryptophan	%	Amino Acid	<input checked="" type="checkbox"/>
10307	ARG	Arginine	%	Amino Acid	<input checked="" type="checkbox"/>
10308	ILE	Isoleucine	%	Amino Acid	<input checked="" type="checkbox"/>



Code	Nutrient	Long Name	Group	Company Specification	Plant Overlay	Analysis	Unit
10301	LYS	Lysine	Amino Acid	0.69	0.76	0.76%	
10302	MET	Methionine	Amino Acid	0.316	0.347	0.347%	
10303	CYS	Cystine	Amino Acid	0.36	0.4	0.4%	
10304	MET+CYS	Methionine+Cystine	Amino Acid	0.637	0.694	0.694%	
10305	THR	Threonine	Amino Acid	0.629	0.677	0.677%	
10306	TRP	Tryptophan	Amino Acid	0.202	0.224	0.224%	
10307	ARG	Arginine	Amino Acid	1.251	1.396	1.396%	
10308	ILE	Isoleucine	Amino Acid	0.577	0.624	0.624%	
10309	LEU	Leucine	Amino Acid	1.172	1.283	1.283%	
10310	VAL	Valine	Amino Acid	0.915	1.006	1.006%	
10311	HIS	Histidine	Amino Acid	0.444	0.502	0.502%	
11801	AME, Gr Poultry	Apparent Metabolizable Energy, Grow...	Proximate	1.519	1.420	1.430 kcal	
11802	AME, Broiler	Apparent Metabolizable Energy, Youn...	Proximate	1.484	1.430	1.430 kcal	
11901	AME, hen/layer	Apparent Metabolizable Energy	Proximate	1.543	1.542	1.542 kcal	
12101	DE	Digestible Energy	Proximate		2.211	2.211 kcal	
10214	GE	Gross energy	Proximate			kcal	
10202	DM	Dry Matter	Proximate	88.46	90	90%	
10203	MOI	Moisture	Proximate	11.52	10	10%	
10204	CP	Crude Protein	Proximate	16.43	18	18%	

Contact us for more information:

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Formulations:

LibreFeed contains default formulations for well-known breeds of commercial layers based on published nutritional standards of breeding companies. Users can edit these formulations and add unlimited new formulations

Compound Formulation

Code: 1001 Name: Broiler Grower Feed Price List: 1st Week Jan 2017

Compound Ingredients					Compound Nutrients						
Code	Ingredient	Price	Minimum	Value	Maximum	Code	Nutrient	Unit	Minimum	Value	Maximum
100101	MAIZE YELLOW OMV	20.000				10202	DM	%			
100117	BROKEN RICE OMV	22.000	8.000			10209	MOI	%		13.000	
120201	FISH POLISH GRADE_A OMV	20.000		5.000		10204	CP	%	20.000	23.000	
120209	DEOILED RICE BRAN OMV	15.000		5.000		10205	EE	%	4.000	8.000	
120215	Wheat Flour Feed Grade OMV	22.000		10.000		10207	CF	%		5.000	
130102	Soyabean Meal 45% OMV	27.000		5.000		10208	FA	%		8.000	
130303	RAPESEED MEAL 36.5% OMV	27.000		5.000		10226	T_SUIS	%			
140110	FULL FAT SOYA EXTRUDED BY KAZI	44.000		8.000		10224	STA_Ewea	%			
150303	DDGS_CORM PF 35% OMV	27.000		5.000		10228	A_LEE	%			
170101	LIMESTONE POWDER OMV	8.000		1.000		10301	LVS	%	1.100	1.150	
170202	MONOCALCIUM PHOSPHATE OMV	60.000		1.000		10302	MET	%	450	480	
170901	SALT	24.000		5.00		10303	CYS	%			
190103	DL_METHIONINE POWDER	200.000		1.000		10304	MET+CY5	%	880	900	
190201	L_LYSINE_HCL	140.000		1.000		10305	THR	%	750	790	
203306	ANEXD	130.000	400	820		10306	TRP	%			
230111	TOXFIN DRY					10307	ARG	%	1.200	1.250	
230907	MOLD CID					10308	ILE	%			
2405	VITAMIN_C STAV_35%					10309	LEU	%			
2421	CHOLINE CHLORIDE 60%					10310	VAL	%			
						10311	HE	%			
						10401	DIS_LYS	%	1.000	1.100	
						10402	DIS_MET	%	420	450	
						10403	DIS_CYS	%			
						10404	DIS+MET+CY5	%	800	850	
						10405	DIS_THR	%	170	190	
						10406	DIS_TRP	%			

Prices:

LibreFeed comes with a default set of prices which the user can update to reflect current market rates.

Price Information

Code: 1st Week Jan 2017 Description: 1st Week Jan 2017 Valid From: 2017-01-01 Valid To: 2017-01-07

Code	Long Name	Value
100101	MAIZE YELLOW OMV	20.5
100117	BROKEN RICE OMV	22.0
110205	FISH OIL	180.0
120201	FISH POLISH GRADE_A OMV	20.0
120203	DEOILED RICE BRAN OMV	15.0
120215	Wheat Flour Feed Grade OMV	22.0
130102	Soyabean Meal 45% OMV	27.0
130303	RAPESEED MEAL 36.5% OMV	27.0
140110	FULL FAT SOYA EXTRUDED BY KAZI OMV	44.0
150303	DDGS_CORM PF 35% OMV	27.0
160302	MEAT & BONE MEAL 45% OMV	40.0
160302	FISH MEAL 60%	120.0
170101	LIMESTONE POWDER OMV	8.0
170202	MONOCALCIUM PHOSPHATE OMV	60.0
170901	SALT	25.0
180107	MINERAL PREMIX_FISH	130.0
180305	VITAMIN PREMIX_FISH	1000.0
190103	DL_METHIONINE POWDER	220.0
190201	L_LYSINE_HCL	150.0
203306	ANEXD	130.0
230111	TOXFIN DRY	130.0
230907	MOLD CID	170.0
2405	VITAMIN_C STAV_35%	600.0
2421	CHOLINE CHLORIDE 60%	120.0

Technical Features:

- LibreFeed desktop formulation software is released under an open-source license which means it will never require any license fee.
- LibreFeed formulation software has been developed in the Java programming language, which supports all computer operating systems (MS Windows, Mac and Linux).
- An Android app will also be released in the future.
- All formulation, ingredient and price data is stored in the free/open-source H2 database, which is also written in Java and will work in any platform.

Commercial Web-Based Version:

A web-based multi-user collaborative version of LibreFeed will be released as a commercial product for purchase by large companies with multiple feed mills and nutritionists.

About Sysnova:

Sysnova Information System Limited (www.sysnova.com) is a pioneer of free/open-source software in Bangladesh.

- Sysnova has customized the free/open-source Sysnova ERP solution for many clients in Bangladesh as a functional yet economical solution to expensive proprietary Enterprise Resource Planning solutions sold by multinational software companies.
- Sysnova has also assisted thousands of corporate desktop users to migrate from proprietary software like Microsoft Windows / Office / Project as well as Adobe Photoshop and AutoCAD to free/open-source alternatives like Ubuntu Linux (www.ubuntu.com), Libre Office (www.libreoffice.org), Project Libre (www.projectlibre.com/), Gimp photo editor (www.gimp.org) and QCAD (www.qcad.org).

Membership:



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