

Fish Feed Technology

PhD. student

Dr.A.Y.Al-Dubakel

Diet formulation 4

Feed Formulation Calculations

4- Excel diet formulation

Open up the worksheet called “Database”

Select the ingredients that you want to include in the formulation by typing its number in Column “B” alongside its name (the maximum number of ingredients that can be selected at any one time is 33). You can also enter the cost of each ingredient in Column “AK” if you want diet cost information (see Point 9).

After you have typed in the number of each of the required ingredients, hold down the ‘shift key’ and select all cells in the white area of Column “B” and “Copy”.

Move to the worksheet called “Blank” and paste this column of numbers for the selected ingredients. This will list the typed numbers but with blanks for those rows which were not selected.

To get rid of these blank rows, immediately after pasting the column to the “Blank” worksheet” (and with the data still ‘highlighted’), go to “Data” and select “sort”. Make sure that you select “no header row”. Then click “OK” and all empty rows in the column will be removed.

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Feed Formulation Calculations

Select only the sorted numbers and copy this to Column “A” in the worksheet called “Diet Calc”. This will then list the correct name of the selected ingredient and its nutrient composition.

Enter the inclusion level for each, or some, of the ingredients and this will automatically sum the total amount included and calculate the nutritional composition of the formulation on a percent basis. (NB if the total amount in the formulation is LESS THAN, or MORE THAN, 100, the calculation will ADJUST the amounts in proportion so that the calculation is based on 100 units. The output is as a percent (other than for energy and astaxanthin) of the diet as formulated and for the derived DM content of the formulation. An exact copy of the ingredient list, amount included and the nutrient composition of the formulation appears alongside the nutrient specification output table. This output can then be copied and moved to another worksheet (eg the “Blank” sheet) and stored there if you are doing a series of formulations that you want to save/compare when all formulations have been done.

The program is NOT a least-cost diet calculation program. However, you can add the cost of the ingredient into the “Database” sheet (Column “AK”) and the program will calculate the cost of the formulated diet.

There is room at the bottom of the data in “Database” for you to add your own ingredients and their nutrient composition. There is space for about 17 ingredients to be listed and these ingredients will then be picked up in the diet calculation once you enter the corresponding ingredient number.

صفحة الرئيسية إدراج تخطيط الصفحة صيغ بيانات مراجعة عرض

بحث فرز وتصفية وتحديد تحرير

إدراج حذف تنسيق خلايا

تنسيق الخلايا أنماط تنسيق الجدول أنماط شرطية

رقم

محاذاة

خط

10 Arial

خط

Select ingredient Number		Ingredient Number	Description	Analysis on an 'as-used' basis											
				DM	Ash	GE	DE	CP	DCP	Lipid	Fibre	18:2n-6	18:3n-3	20:4n-6	20:5n-3
				%	%	MJ/kg	MJ/kg	%	%	%	%	%	%	%	%
Animal meals	1	Casein		91.5	3.7	21.7	20.5	86.5	81.7	0.2	1.0	0	0	0	0
	2	Blood meal (batch)		89.0	4.0	22.0	14.2	76.7	57.5	1.0	1.0	0	0	0	0
	3	Blood meal (ring/spray)		87.8	3.2	22.0	14.5	81.5	65.2	1.0	1.0	0	0	0	0
	4	Crustacean meal (lango)		95.0	32.0	14.0	11.1	40.9	36.7	7.4	10.0	0.01	0	0.12	0.5
	5	Fish meal (50% Tuna)		93.2	25.2	18.6	14.9	52.0	46.8	7.6	3.1	0.08	0.03	0.12	0.3
	6	Fish meal (65% - anchovy)		90.4	15.7	21.2	18.7	68.0	61.9	9.0	1.0	0.09	0.04	0.14	0.4
	7	Fish meal (70% - Danish)		90.3	12.4	20.2	14.5	72.9	63.9	13.3	2.2	0.13	0.06	0.21	0.5
	8	Fish meal (62% - Vietnam)		93.2	21.8	20.5	18.1	62.1	55.9	5.7	1.5	0.02	0.04	0.14	0.4
	9	Krill meal		92.9	13.0	23.0	17.4	58.0	52.2	18.0	6.0	0.14	0.06	0.03	1.6
	10	Meat & bone meal (48%)		94.6	33.6	18.0	11.7	48.4	33.9	10.0	1.8	0.26	0.07	0.04	0.0
	11	Meat & bone meal (52%)		95.0	30.8	18.3	11.9	53.2	38.3	8.4	1.5	0.22	0.06	0.03	0.0
	12	Mussel (fresh)		19.4	1.6	3.6	3.2	11.9	11.3	2.2	0.0	0.01	0.02	0.03	0.1
	13	Mussel meal (dry)		91.8	10.1	18.1	15.4	51.5	47.4	8.4	1.0	0.04	0.03	0.04	0.4
	14	Poultry feather meal		89.2	5.4	20.1	9.0	77.9	62.0	4.2	0.6	0	0	0	0
	15	Poultry offal meal		90.0	8.0	22.0	15.4	60.0	52.8	14.0	1.9	1.15	0.25	0	0.0
	16	Shrimp (Fresh)		24.1	1.2	4.4	3.5	20.3	18.0	1.7	1.5	0.02	0.01	0.04	0.2
	17	Shrimp (Acetes) meal		93.1	15.2	16.0	12.8	63.9	57.5	4.0	3.6	0.00	0.01	0.04	1.8
	18	Shrimp head meal		94.0	25.8	16.6	12.5	58.6	48.5	7.2	14.0	0.04	0.00	0.05	0.9
	19	Shrimp shell meal		92.6	30.4	14.0	8.4	36.3	33.0	7.0	20.0	0.08	0.10	0.05	1.6
	20	Skim milk pwd		94.4	8.2	16	14.4	36	36.1	1	0	0	0	0	0
	21	Squid (fresh)		21.4	1.4	3.9	3.4	15.6	14.8	1.4	0	0	0	0	0.1
	22	Squid meal		92.7	8.5	18.0	15.2	60.0	54.0	11.9	2.0	0.47	0.11	0.11	1.2
	23	Trash fish (anchovy)		26.6	1.4	5.5	5.1	20.4	19.4	4.8	0.2	0.05	0	0.01	0.5
	24	Trash fish (mixed)		20.8	1.2	3.9	3.6	19.4	18.4	1.0	0.2	0.01	0.01	0.01	0.0
	25	Trash fish (whitefish-mix)		27.2	1.1	5.6	4.8	19.1	18.1	5.9	0.2	0.27	0.18	0.20	0.3
26															
Plant protein meals	27	Canola		91.0	6.8	18.7	14.0	39.0	34.3	4.0	11.9	0.81	0.37	0	0.0
	28	Cassava leaf meal		86.5	6.3	18.0	11.2	28.0	23.8	7.8	9.8	0	0	0	0
	29	Chick pea		90.8	3.3	16.4	11.5	20.6	18.5	4.4	7.7	0.2	0.04	0	0
	30	Copra (coconut) meal		92.4	5.4	16.5	10.1	19.2	15.7	13.0	11.5	0.49	0	0	0
	31	Cottonseed meal (expl)		92	6.2	16.5	10.0	39	26.6	6.8	10.8	3.6	0.07	0	0
	32	Field pea		87.0	3.5	16.5	12.4	22.3	19.6	1.5	6.0	0	0	0	0
	33	Gluten (corn)		92.9	1.7	22.0	21.0	63.1	62.5	8.0	1.9	0	0	0	0

Microsoft Excel - [وضع التوافق] DIET-FORMULATOR

الصفحة الرئيسية | إدراج | تخطيط الصفحة | صغ | بيانات | مراجعة | عرض

الرقم: الرقم

خط: Arial 10

الحافظة | لصق

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
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Database | BLANK | Diet Calc

110%

جاهز

رقم: محاذاة: خط: Arial 10

تنسيق شرطى تنسيق كجدول أنماط الخلايا أنماط

حذف إدراج تنسيق

تحديد فرز بحث

لصق الحافظة

		C4														
		C	Analysis of ingredient expressed on an 'as-used' basis													
Ingredient Number	Description	Diet amount kq	DM	Ash	GE	DE	CP	DCP	Lipid	Fibre	18:2n-6	18:3n-3	20:4n-6	20:5n-3		
4		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
8		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
11		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
12		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
13		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
14		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
15		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
16		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
17		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
18		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
19		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
20		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
21		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
22		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
23		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
24		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
25		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
26		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
27		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
28		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
29		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
30		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

Types of
Compounded
Aquaculture
Feeds

