

Table S1. Diet formulae and their nutritional values

	Nursery 3		Nursery 4		GF-1		GF-2		GF-3		GF-4		GF-5		GF-6		GF-7	
	Barrow/Gilt		Barrow/Gilt		Barrow/Gilt		Barrow	Gilt	Barrow	Gilt	Barrow	Gilt	Barrow	Gilt	Barrow	Gilt	Barrow/Gilt	
Ingredient																		
Corn	660.60		861.88		800.62		1020.46	1013.36	1236.71	1204.82	1382.01	1335.94	1481.33	1435.26	1530.99	1499.03	1534.50	
Corn germ meal	48.01		341.84		564.17		464.72	467.93	366.89	381.32	301.16	322.00	256.23	277.07	233.76	248.22	232.18	
Soybean meal	326.70		594.00		490.79		394.42	397.53	299.63	313.60	235.93	256.12	192.39	212.59	170.62	184.63	169.09	
Fat - yellow grease (post-pellet)					64.46		47.08	47.64	29.99	32.51	18.50	22.14	10.65	14.29	6.72	9.25	6.45	
Limestone			30.20		27.99		25.81	25.88	23.66	23.97	22.21	22.67	21.23	21.69	20.73	21.05	20.70	
Pelleting aid					10.00		10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
L-Lysine HCl (98%)			8.91		9.65		8.17	8.22	6.71	6.93	5.74	6.05	5.07	5.38	4.73	4.95	4.71	
Salt			11.17		9.14		9.13	9.13	9.12	9.13	9.12	9.12	9.11	9.12	9.11	9.11	9.11	
Fat - yellow grease	41.55		13.86		7.00		7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	
Monocalcium phosphate (21%)			18.13		5.51		4.52	4.55	3.54	3.69	2.89	3.09	2.44	2.65	2.21	2.36	2.20	
HMTBa			2.26		4.50		3.29	3.33	2.09	2.27	1.29	1.55	0.74	1.00	0.47	0.65	0.45	
L-Threonine (98%)			2.07		2.35		1.78	1.80	1.23	1.31	0.85	0.97	0.60	0.72	0.47	0.55	0.46	
Trace mineral premix			1.98		2.00		1.87	1.87	1.73	1.75	1.64	1.67	1.58	1.61	1.55	1.57	1.55	
Phytase 2500			1.90		0.80		0.76	0.76	0.73	0.73	0.70	0.71	0.68	0.69	0.67	0.68	0.67	
Vitamin premix			0.99		0.60		0.57	0.57	0.55	0.55	0.53	0.53	0.52	0.52	0.51	0.51	0.51	
Copper chloride (58%)			0.68		0.43		0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	
Nursery basemix	791.99																	
DDGS	111.15		76.52															
Mecadox 2.5 (g/lb)	20		20															
Zinc oxide (72%)			6.93															
Organic acidifier			5.94															
Carbohydase			0.74															
Total:	2000		2000		2000		2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	
Nutrient	Units																	
Metabolizable energy	Kcal/lb	1500	1519.371		1460.004		1460.18	1460.17	1460.35	1460.33	1460.47	1460.43	1460.55	1460.51	1460.59	1460.56	1460.59	
Crude protein	%	20.103	22.561		21.281		18.59	18.68	15.95	16.34	14.17	14.74	12.96	13.52	12.35	12.74	12.31	
Cystine, Dig	%	0.293	0.272		0.244		0.22	0.22	0.20	0.20	0.19	0.19	0.18	0.18	0.17	0.18	0.17	
Isoleucine, Dig	%	0.675	0.786		0.715		0.62	0.62	0.52	0.53	0.45	0.47	0.41	0.43	0.39	0.40	0.38	
Lysine, Total	%	1.405	1.521		1.454		1.23	1.24	1.01	1.05	0.87	0.91	0.77	0.81	0.72	0.75	0.71	
Lysine, Dig	%	1.25	1.34		1.27		1.07	1.08	0.87	0.90	0.74	0.78	0.65	0.69	0.61	0.64	0.60	
Leucine, Dig	%	1.469	1.586		1.439		1.31	1.31	1.18	1.20	1.09	1.12	1.03	1.06	1.00	1.02	1.00	
Met + Cys, Dig	%	0.707	0.765		0.725		0.62	0.62	0.51	0.53	0.44	0.47	0.40	0.42	0.37	0.39	0.37	
Threonine, Dig	%	0.76	0.804		0.762		0.65	0.65	0.54	0.55	0.46	0.48	0.41	0.43	0.38	0.40	0.38	
Tryptophan, Dig	%	0.223	0.232		0.216		0.18	0.18	0.15	0.16	0.13	0.14	0.12	0.12	0.11	0.11	0.11	
Valine, Dig	%	0.826	0.871		0.826		0.72	0.72	0.62	0.63	0.55	0.57	0.50	0.52	0.47	0.49	0.47	
Phosphorus	%	0.728	0.689		0.557		0.50	0.50	0.44	0.45	0.41	0.42	0.38	0.39	0.37	0.38	0.37	
P, Available	%	0.569	0.4		0.3		0.27	0.27	0.24	0.24	0.21	0.22	0.20	0.21	0.19	0.20	0.19	
Calcium	%	0.809	0.896		0.7		0.63	0.63	0.57	0.58	0.52	0.54	0.49	0.51	0.48	0.49	0.48	
Moisture	%	13.735	13.035		13.172		13.60	13.58	14.01	13.95	14.29	14.20	14.48	14.39	14.58	14.52	14.58	
Crude fat	%	5.476	3.03		5.458		4.82	4.84	4.18	4.28	3.76	3.89	3.47	3.60	3.32	3.42	3.31	
Crude fiber	%	2.117	3.18		3.486		3.17	3.18	2.85	2.90	2.64	2.71	2.50	2.57	2.43	2.47	2.42	
ADF	%	2.92	5.01		5.367		4.86	4.88	4.37	4.44	4.03	4.14	3.81	3.91	3.69	3.76	3.68	
NDF	%	6.507	12.75		15		13.58	13.63	12.19	12.40	11.26	11.55	10.62	10.91	10.30	10.50	10.28	