

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													
Carbohydrase		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