

info

Physical Feed Restriction Program for Hybrid Converter & Grade Maker Breeder Toms

1. Toms should be fed the control diet (Table 1) after selection at 16 weeks of age (or in some cases 19 to 20 weeks depending on your selection program and final product objectives).
2. Toms (maximum 15 to 20 per pen) should be placed in conditioning pens after selection. At least .93 to 1.67 sq. m. (10 to 18 sq. ft.) should be provided per tom.
3. Identify 3 toms per pen (at random) for weekly sample weighing. The identified toms should be marked with food coloring or large wing tags.
4. The identified toms should be weighed individually upon placement in the conditioning pens and every week (same day, same time in relation to the time of feeding). Weights should be recorded, averaged, plotted on a graph, and body weight gain calculated. Compute the coefficient of variation for the weights you collect. An increase in CV could indicate that some toms are not getting the proper amount of feed and thus the feeding system (feed space) per tom should be checked or there might be some feed spillage, or other areas that you might want to check that could affect feed intake. Accurate body weight recording is essential for determining the amount of feed to provide per tom and for the success of the controlled feeding program.
5. Allow toms to adjust to their new environment after moving to the conditioning pens. Provide 475 grams (1 lb.) per tom per day for the first two days the toms are in the conditioning pens. After that start restricting the feed by following the attached table. The amounts given are estimates and you have to work with these numbers based on the performance of each farm, flock, temperature, energy content of diet, etc.
6. Feed should be evenly distributed in the trough feeders and be provided once daily. Feeding should be done at a time that does not interfere with semen collection. Please take your time to make sure that the feed is not spilled when added to the feeders.
7. Feed allowance per tom will and should increase in proportion to growth and should not decrease during semen production.
8. Mortality sheets for each pen should be checked before feeding every day. The amount of feed should be adjusted to the actual number of toms per pen.
9. Temperature changes will affect the amount of feed needed for maintenance and gain. Insulated housing will be best to prevent wide variations in temperature which could affect feed intake and tom performance. For every 1° C (1.8° F) decrease in temperature below 12°C (53.6°F), feed allowance should be increased by 1.5%. For simplicity, if mean temperature of the house changes more than 6° C (10° F), follow the adjustments shown in the attached table.
10. It is important that the toms are on target weight by 22 weeks of age. If the toms are underweight by 22 weeks of age, increase feed allowance by 10 to 15% until toms are on target weight. After that, toms could be fed according to the scheduled amount.
11. If toms are above target weight at 22 weeks and after, do not try to prevent weight gain. Toms should always gain weight according to the standard attached.
12. Toms should never lose weight. Some toms in the pen might lose weight but the average weight should always increase. The attached table shows the target weight (slightly lower than the old

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- standard starting at 16 weeks of age) and the feed allowance based on barn temperature, energy and protein content of the diet.
13. Trough feeders should be used for controlled fed toms. Hanging tube feeders should not be used. A minimum of 35.5 linear cm. (14 linear inches) of feeder space should be provided per tom. Control fed toms are usually very active and aggressive when feed is provided, thus trough feeders should be stable and low to prevent feed wastage and neck bruising.
 14. Water restriction might be needed during the first several weeks toms are control fed. Toms might drink too much water to feel full and out of boredom. Water should be provided one hour before and two hours after feeding. During hot temperature conditions, water should be provided for another two hours during the day. Water restriction should be carefully monitored under high temperature conditions.
 15. Farm managers should start monitoring sexual development after 20 weeks of age. Controlling feeding of toms usually causes some delay in sexual maturity. Follow Hybrid Standard Procedure (e.g. checking protruded phallus, pre-milking, etc.) to make sure that semen is available when needed.
 16. About 10 to 14 days before shipping, toms can be placed on full feed. Toms will efficiently gain a considerable amount of weight during this period which will increase their salvage value.

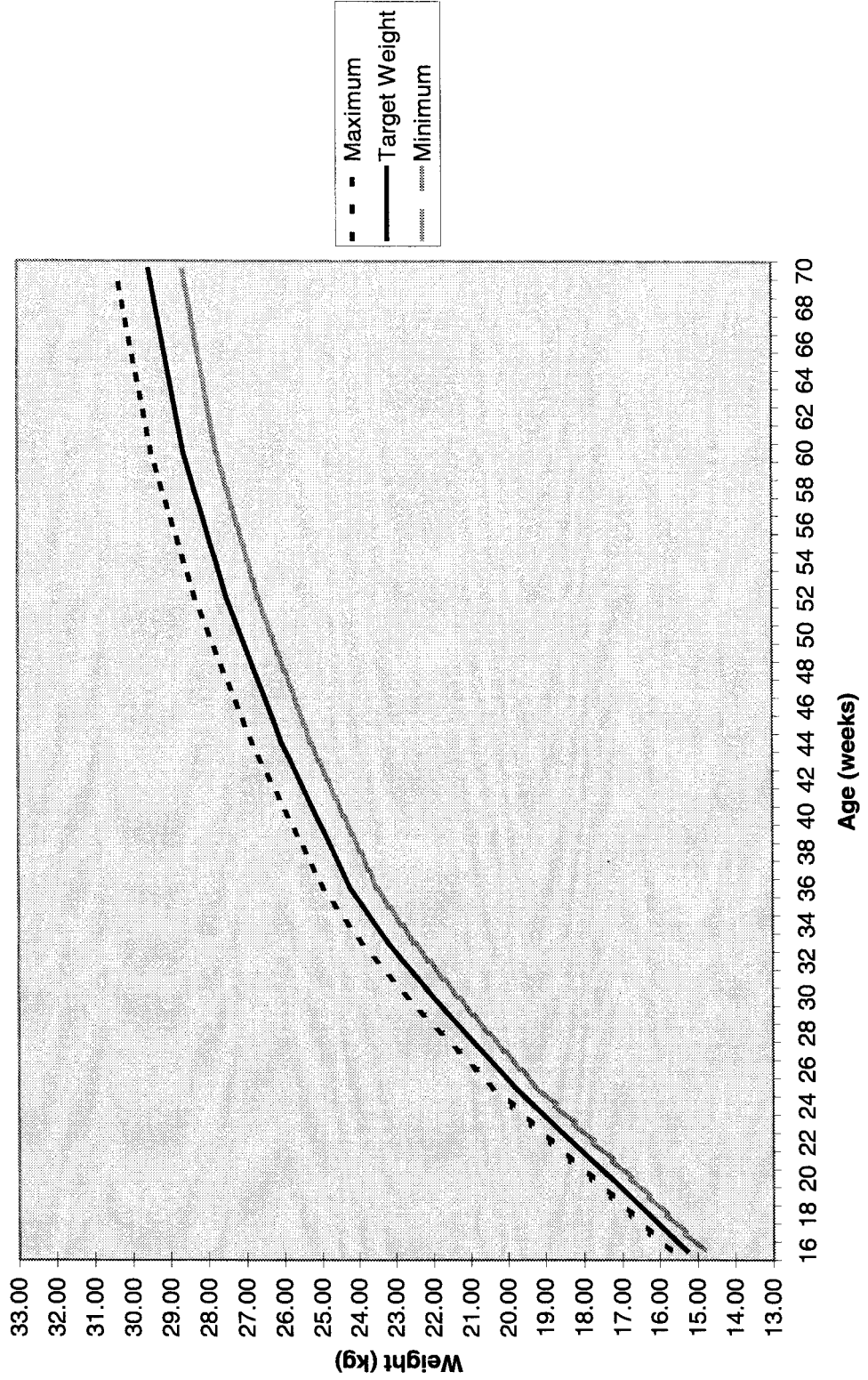
Table 1. Nutrient Specifications

	Control Fed Toms
Kcal/kg	2925
Kcal/lb	1330
Protein, %	13.5-14.5
Lysine, %	0.73
Methionine, %	0.33
TSAA, %	0.60
Calcium, %	1.10
Av. Phosphorus, %	0.50
Sodium, %	0.16

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**Body Weight: Physical Feed Restricted
Hybrid Converter & Grade Maker Breeder Toms**



Age (weeks)	Target weight (kg)	Minimum	Maximum	Gain (kg)	Gain (min.)	Gain (max.)	Estimated feed allowance in grams per tom per day at the following average temperature				
							26.7°C	21.1°C	15.6°C	10°C	4.4°C
16	15.30	14.84	15.75				350	371	397	430	463
17	15.80	15.33	16.27	0.50	0.48	0.51	357	372	399	432	465
18	16.30	15.81	16.78	0.50	0.48	0.51	365	372	400	434	467
19	16.80	16.30	17.30	0.50	0.48	0.51	372	373	401	435	470
20	17.30	16.78	17.81	0.50	0.48	0.51	380	373	402	437	472
21	17.80	17.27	18.33	0.50	0.49	0.51	387	374	403	439	475
22	18.30	17.75	18.84	0.50	0.48	0.51	394	374	404	440	477
23	18.80	18.24	19.35	0.50	0.48	0.51	401	375	405	442	479
24	19.30	18.72	19.87	0.50	0.48	0.51	409	375	406	444	482
25	19.80	19.21	20.38	0.50	0.48	0.51	416	376	406	445	484
26	20.25	19.64	20.85	0.45	0.44	0.46	422	376	407	447	486
27	20.70	20.08	21.31	0.45	0.44	0.46	428	376	408	448	488
28	21.15	20.52	21.77	0.45	0.44	0.46	434	377	409	449	490
29	21.60	20.95	22.24	0.45	0.44	0.46	441	377	410	451	492
30	22.00	21.34	22.65	0.40	0.39	0.41	446	377	411	452	494
31	22.40	21.73	23.06	0.40	0.39	0.41	451	378	411	453	495
32	22.80	22.12	23.47	0.40	0.39	0.41	457	378	412	455	497
33	23.20	22.50	23.88	0.40	0.39	0.41	462	378	413	456	499
34	23.54	22.83	24.23	0.34	0.33	0.35	467	379	413	457	500
35	23.88	23.16	24.58	0.34	0.33	0.35	471	379	414	458	502
36	24.22	23.49	24.93	0.34	0.33	0.35	476	379	415	459	503
37	24.45	23.72	25.17	0.23	0.22	0.24	479	379	415	460	504
38	24.68	23.94	25.41	0.23	0.22	0.24	482	380	416	460	505
39	24.91	24.16	25.64	0.23	0.22	0.24	485	380	416	461	506
40	25.14	24.39	25.88	0.23	0.22	0.24	488	380	416	462	507
41	25.37	24.61	26.12	0.23	0.22	0.24	491	380	417	462	508
42	25.60	24.83	26.36	0.23	0.22	0.24	494	380	417	463	509
43	25.83	25.06	26.59	0.23	0.22	0.24	497	381	418	464	510
44	26.06	25.28	26.83	0.23	0.22	0.24	500	381	418	464	511
45	26.24	25.45	27.01	0.18	0.17	0.19	502	381	418	465	512
46	26.42	25.63	27.20	0.18	0.17	0.19	504	381	419	466	512
47	26.60	25.80	27.38	0.18	0.17	0.19	507	381	419	466	513
48	26.78	25.98	27.57	0.18	0.17	0.19	509	381	419	467	514
49	26.96	26.15	27.76	0.18	0.17	0.19	511	381	420	467	515
50	27.14	26.33	27.94	0.18	0.17	0.19	513	382	420	468	515
51	27.32	26.50	28.13	0.18	0.17	0.19	516	382	420	468	516
52	27.50	26.68	28.31	0.18	0.17	0.19	518	382	420	469	517
53	27.64	26.81	28.46	0.14	0.14	0.14	520	382	421	469	517
54	27.78	26.95	28.60	0.14	0.14	0.14	522	382	421	469	518
55	27.92	27.08	28.74	0.14	0.14	0.14	523	382	421	470	519
56	28.06	27.22	28.89	0.14	0.14	0.14	525	382	421	470	519
57	28.20	27.35	29.03	0.14	0.14	0.14	527	382	422	471	520
58	28.34	27.49	29.18	0.14	0.14	0.14	529	383	422	471	520
59	28.48	27.63	29.32	0.14	0.14	0.14	530	383	422	472	521
60	28.62	27.76	29.46	0.14	0.14	0.14	532	383	422	472	521
61	28.71	27.85	29.56	0.09	0.09	0.09	533	383	423	472	522
62	28.80	27.94	29.65	0.09	0.09	0.09	534	383	423	472	522
63	28.89	28.02	29.74	0.09	0.09	0.09	535	383	423	473	523
64	28.98	28.11	29.83	0.09	0.09	0.09	537	383	423	473	523
65	29.07	28.20	29.93	0.09	0.09	0.09	538	383	423	473	523
66	29.16	28.29	30.02	0.09	0.09	0.09	539	383	423	473	524
67	29.25	28.37	30.11	0.09	0.09	0.09	540	383	423	474	524
68	29.34	28.46	30.21	0.09	0.09	0.09	541	383	424	474	524
69	29.43	28.55	30.30	0.09	0.09	0.09	542	383	424	474	525
70	29.52	28.63	30.39	0.09	0.09	0.09	543	383	424	474	525