

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.

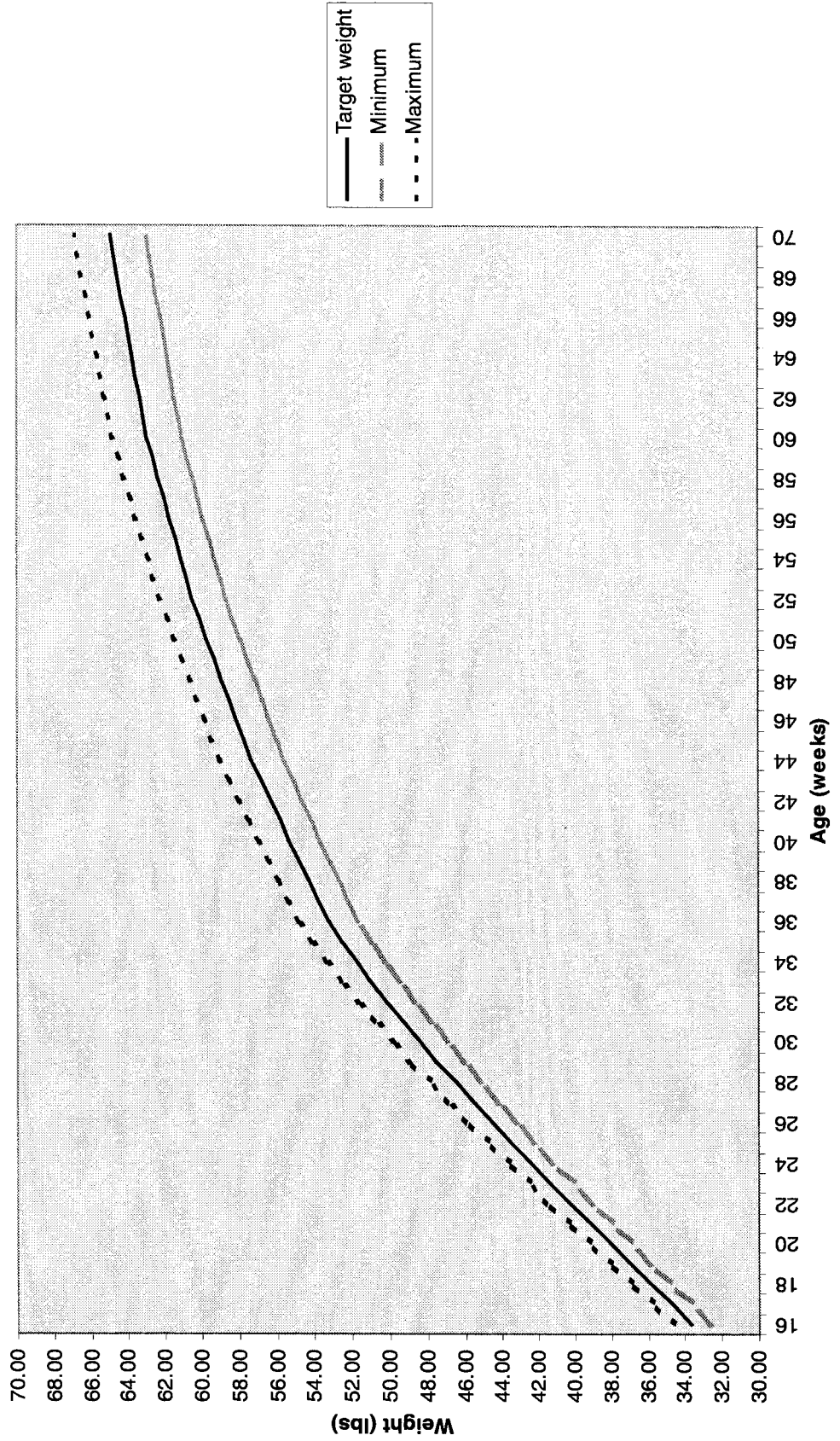
Table 1. Nutrient Specifications

	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 and Hybrid Grade Maker Breeder Toms**



Age (weeks)	Target weight (lbs)	Minimum	Maximum	Gain (lbs)	Gain (min.)	Gain (max.)	Estimated feed allowance in lbs per ton per day at the following average temperature				
							80°F	70°F	60°F	50°F	40°F
16	33.66	32.65	34.65				0.77	0.82	0.88	0.95	1.02
17	34.76	33.72	35.79	1.10	1.07	1.13	0.79	0.82	0.88	0.95	1.02
18	35.86	34.78	36.92	1.10	1.07	1.13	0.80	0.82	0.88	0.95	1.03
19	36.96	35.85	38.05	1.10	1.07	1.13	0.82	0.82	0.88	0.96	1.04
20	38.06	36.92	39.18	1.10	1.07	1.13	0.84	0.82	0.88	0.96	1.04
21	39.16	37.99	40.32	1.10	1.07	1.13	0.85	0.82	0.89	0.97	1.05
22	40.26	39.05	41.45	1.10	1.07	1.13	0.87	0.82	0.89	0.97	1.05
23	41.36	40.12	42.58	1.10	1.07	1.13	0.88	0.83	0.89	0.97	1.06
24	42.46	41.19	43.71	1.10	1.07	1.13	0.90	0.83	0.89	0.98	1.06
25	43.56	42.25	44.85	1.10	1.07	1.13	0.92	0.83	0.90	0.98	1.07
26	44.55	43.21	45.86	0.99	0.96	1.02	0.93	0.83	0.90	0.98	1.07
27	45.54	44.17	46.88	0.99	0.96	1.02	0.94	0.83	0.90	0.99	1.07
28	46.53	45.13	47.90	0.99	0.96	1.02	0.96	0.83	0.90	0.99	1.08
29	47.52	46.09	48.92	0.99	0.96	1.02	0.97	0.83	0.90	0.99	1.08
30	48.40	46.95	49.83	0.88	0.85	0.91	0.98	0.83	0.90	1.00	1.09
31	49.28	47.80	50.73	0.88	0.85	0.91	0.99	0.83	0.91	1.00	1.09
32	50.16	48.66	51.64	0.88	0.85	0.91	1.01	0.83	0.91	1.00	1.10
33	51.04	49.51	52.55	0.88	0.85	0.91	1.02	0.83	0.91	1.00	1.10
34	51.79	50.23	53.32	0.75	0.73	0.77	1.03	0.83	0.91	1.01	1.10
35	52.54	50.96	54.09	0.75	0.73	0.77	1.04	0.83	0.91	1.01	1.11
36	53.28	51.69	54.86	0.75	0.73	0.77	1.05	0.84	0.91	1.01	1.11
37	53.79	52.18	55.38	0.51	0.49	0.52	1.05	0.84	0.91	1.01	1.11
38	54.30	52.67	55.90	0.51	0.49	0.52	1.06	0.84	0.92	1.01	1.11
39	54.80	53.16	56.42	0.51	0.49	0.52	1.07	0.84	0.92	1.02	1.11
40	55.31	53.65	56.94	0.51	0.49	0.52	1.07	0.84	0.92	1.02	1.12
41	55.81	54.14	57.46	0.51	0.49	0.52	1.08	0.84	0.92	1.02	1.12
42	56.32	54.63	57.98	0.51	0.49	0.52	1.09	0.84	0.92	1.02	1.12
43	56.83	55.12	58.50	0.51	0.49	0.52	1.09	0.84	0.92	1.02	1.12
44	57.33	55.61	59.02	0.51	0.49	0.52	1.10	0.84	0.92	1.02	1.13
45	57.73	56.00	59.43	0.40	0.38	0.41	1.11	0.84	0.92	1.02	1.13
46	58.12	56.38	59.84	0.40	0.38	0.41	1.11	0.84	0.92	1.03	1.13
47	58.52	56.76	60.25	0.40	0.38	0.41	1.12	0.84	0.92	1.03	1.13
48	58.92	57.15	60.65	0.40	0.38	0.41	1.12	0.84	0.92	1.03	1.13
49	59.31	57.53	61.06	0.40	0.38	0.41	1.13	0.84	0.92	1.03	1.13
50	59.71	57.92	61.47	0.40	0.38	0.41	1.13	0.84	0.92	1.03	1.14
51	60.10	58.30	61.88	0.40	0.38	0.41	1.14	0.84	0.93	1.03	1.14
52	60.50	58.69	62.28	0.40	0.38	0.41	1.14	0.84	0.93	1.03	1.14
53	60.81	58.98	62.60	0.31	0.30	0.32	1.14	0.84	0.93	1.03	1.14
54	61.12	59.28	62.92	0.31	0.30	0.32	1.15	0.84	0.93	1.03	1.14
55	61.42	59.58	63.24	0.31	0.30	0.32	1.15	0.84	0.93	1.04	1.14
56	61.73	59.88	63.55	0.31	0.30	0.32	1.16	0.84	0.93	1.04	1.14
57	62.04	60.18	63.87	0.31	0.30	0.32	1.16	0.84	0.93	1.04	1.14
58	62.35	60.48	64.19	0.31	0.30	0.32	1.16	0.84	0.93	1.04	1.15
59	62.66	60.78	64.50	0.31	0.30	0.32	1.17	0.84	0.93	1.04	1.15
60	62.96	61.08	64.82	0.31	0.30	0.32	1.17	0.84	0.93	1.04	1.15
61	63.16	61.27	65.03	0.20	0.19	0.20	1.17	0.84	0.93	1.04	1.15
62	63.36	61.46	65.23	0.20	0.19	0.20	1.18	0.84	0.93	1.04	1.15
63	63.56	61.65	65.43	0.20	0.19	0.20	1.18	0.84	0.93	1.04	1.15
64	63.76	61.84	65.64	0.20	0.19	0.20	1.18	0.84	0.93	1.04	1.15
65	63.95	62.04	65.84	0.20	0.19	0.20	1.18	0.84	0.93	1.04	1.15
66	64.15	62.23	66.04	0.20	0.19	0.20	1.19	0.84	0.93	1.04	1.15
67	64.35	62.42	66.25	0.20	0.19	0.20	1.19	0.84	0.93	1.04	1.15
68	64.55	62.61	66.45	0.20	0.19	0.20	1.19	0.84	0.93	1.04	1.15
69	64.75	62.80	66.66	0.20	0.19	0.20	1.19	0.84	0.93	1.04	1.16
70	64.94	63.00	66.86	0.20	0.19	0.20	1.20	0.84	0.93	1.05	1.16