

# BRILLIANT

# PM3

Performance Objectives  
2019



## Introduction

This booklet contains the performance objectives for the Ross® PM3 broiler and is to be used with the **Ross Broiler Management Handbook**.

## Performance

**These objectives indicate the performance achievable under good management and environmental conditions and when feeding recommended nutrient levels.**

Producers may find that local factors prevent such performance being achieved. For example:

- The availability of raw materials may limit nutrient content and intake.
- Extreme climatic conditions will reduce performance.
- Economic considerations may limit choice of production systems.

Therefore, average performance may be lower than the figures presented here.

In the tables values are rounded, this may result in small inaccuracies when using the objectives to calculate other performance statistics.

Yields will vary between processing plants depending on type of equipment used (e.g. carcass chilling technology, automated versus manual deboning) and the exact portion being produced.

Every attempt has been made to ensure the accuracy and relevance of the information presented, however, Aviagen® accepts no liability for the consequences of using this information for the management of chickens.

For further information on the management of Ross stock, please contact your local Ross representative.

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## Key Management Points

Cost effective production of chicken meat depends on achieving good bird performance and the following points are important for optimising performance of the Ross PM3 broiler:

- Maximise chick quality by good management of hatching, storage and transport conditions.
- Design the brooding set-up to ensure easy access to water and feed at placement and to ease the transition between supplementary systems and the automated feeders and drinkers at 4-5 days. Feed a highly digestible, and nutritionally balanced Starter diet.
- Keep chicks in their thermal comfort zone by monitoring chick behaviour, but beware of low relative humidities (less than 50% RH). Establish a minimum ventilation programme from day one.
- Monitor crop fill, feeding and drinking behaviour and 7-day live weight to allow continuous improvement of the brooding set-up.
- Keep birds in their thermal comfort zone throughout the growing period. Fast growing broilers produce large amounts of heat, particularly in the second half of the growout period. Keeping ambient temperatures less than 21°C from 21 days onwards may improve growth rates.
- Maintain high standards of biosecurity and cleanliness to keep disease to a minimum.

## As-Hatched Performance

Day	Body weight (g) <sup>1</sup>	Daily gain (g)	Av. daily gain/week (g)	Daily intake (g)	Cum. intake (g) <sup>2</sup>	FCR <sup>3</sup>
0	43					
1	60	17			13	0.208
2	78	18		17	29	0.372
3	98	20		20	49	0.503
4	121	23		24	74	0.608
5	146	25		28	101	0.693
6	175	28		32	133	0.762
7	206	31	23.31	36	169	0.820
8	240	35		40	209	0.867
9	278	38		44	253	0.908
10	319	41		48	301	0.943
11	363	44		53	354	0.974
12	411	48		58	412	1.002
13	462	51		63	475	1.028
14	516	54	44.31	68	543	1.052
15	574	57		73	616	1.074
16	634	61		79	695	1.096
17	698	64		84	779	1.116
18	764	67		90	869	1.137
19	834	70		96	964	1.156
20	906	72		101	1066	1.176
21	981	75	66.44	107	1173	1.196
22	1059	77		113	1286	1.215
23	1139	80		119	1406	1.235
24	1221	82		125	1531	1.254
25	1305	84		131	1662	1.274
26	1391	86		137	1799	1.293
27	1479	88		143	1942	1.313
28	1568	89	83.87	149	2091	1.333
29	1659	91		154	2245	1.353
30	1751	92		160	2404	1.373
31	1845	93		165	2570	1.393
32	1939	94		170	2740	1.413
33	2034	95		176	2916	1.434
34	2129	96		180	3096	1.454
35	2226	96	93.91	185	3281	1.474
36	2322	96		190	3471	1.495
37	2419	97		194	3666	1.515
38	2516	97		199	3864	1.536
39	2612	97		203	4067	1.557
40	2709	97		206	4273	1.577
41	2805	96		210	4483	1.598
42	2901	96	96.47	213	4696	1.619
43	2996	95		217	4913	1.640
44	3091	95		220	5133	1.661
45	3185	94		222	5355	1.681
46	3278	93		225	5580	1.702
47	3370	92		227	5807	1.723
48	3462	91		230	6037	1.744
49	3552	90	93.01	232	6268	1.765
50	3641	89		233	6502	1.786
51	3729	88		235	6737	1.806
52	3816	87		236	6973	1.827
53	3902	86		238	7210	1.848
54	3986	84		239	7449	1.869
55	4069	83		239	7688	1.889
56	4151	82	85.56	240	7929	1.910
57	4231	80		241	8169	1.931
58	4310	79		241	8411	1.951
59	4388	78		241	8652	1.972
60	4464	76		242	8894	1.992
61	4538	75		242	9135	2.013
62	4612	73		242	9377	2.033
63	4683	72	76.07	241	9618	2.054

<sup>1</sup>On-farm body weight (i.e. feed present in intestinal tract).

<sup>2</sup>Feed consumption per living bird.

<sup>3</sup>FCR includes initial body weight at placement and does not account for mortality.

NOTE: In the table values are rounded. This may result in small inaccuracies when using the objectives to calculate other performance statistics.

## Male Performance

Day	Body weight (g) <sup>1</sup>	Daily gain (g)	Av. daily gain/week (g)	Daily intake (g)	Cum. intake (g) <sup>2</sup>	FCR <sup>3</sup>
0	43					
1	59	17			11	0.193
2	77	17		15	27	0.350
3	97	20		19	46	0.477
4	119	22		23	69	0.581
5	144	25		27	96	0.667
6	172	28		31	127	0.738
7	204	32	23.06	35	163	0.797
8	239	35		40	202	0.847
9	277	38		44	247	0.890
10	319	42		49	296	0.928
11	364	45		54	350	0.961
12	413	49		59	409	0.990
13	465	53		65	473	1.017
14	522	56	45.38	70	543	1.042
15	581	60		76	619	1.065
16	645	63		82	701	1.087
17	711	67		88	788	1.109
18	781	70		94	882	1.129
19	855	73		100	982	1.149
20	931	77		107	1089	1.169
21	1011	80	69.90	113	1202	1.189
22	1094	83		120	1321	1.208
23	1179	85		126	1448	1.228
24	1267	88		133	1580	1.247
25	1357	90		139	1720	1.267
26	1450	93		146	1865	1.286
27	1545	95		152	2018	1.306
28	1642	97	90.09	159	2176	1.326
29	1740	99		165	2342	1.346
30	1840	100		171	2513	1.366
31	1942	102		178	2690	1.386
32	2045	103		184	2874	1.406
33	2148	104		189	3063	1.426
34	2253	105		195	3258	1.446
35	2358	105	102.39	200	3459	1.467
36	2464	106		206	3664	1.487
37	2570	106		211	3875	1.508
38	2677	106		216	4091	1.528
39	2783	106		220	4311	1.549
40	2890	106		225	4536	1.570
41	2996	106		229	4765	1.591
42	3102	106	106.18	233	4998	1.611
43	3207	105		237	5235	1.632
44	3311	105		240	5475	1.653
45	3415	104		243	5719	1.674
46	3518	103		246	5965	1.695
47	3621	102		249	6214	1.716
48	3722	101		252	6466	1.738
49	3822	100	102.86	254	6721	1.759
50	3920	99		256	6977	1.780
51	4018	98		258	7235	1.801
52	4114	96		260	7495	1.822
53	4209	95		261	7756	1.843
54	4302	93		263	8019	1.864
55	4394	92		264	8283	1.885
56	4484	90	94.70	265	8548	1.906
57	4573	89		265	8813	1.927
58	4661	87		266	9079	1.948
59	4746	86		266	9346	1.969
60	4830	84		267	9612	1.990
61	4913	82		267	9879	2.011
62	4994	81		267	10146	2.032
63	5073	79	84.03	267	10412	2.053

<sup>1</sup>On-farm body weight (i.e. feed present in intestinal tract).

<sup>2</sup>Feed consumption per living bird.

<sup>3</sup>FCR includes initial body weight at placement and does not account for mortality.

NOTE: In the table the values are rounded. This may result in small inaccuracies when using the objectives to calculate other performance statistics.

## Female Performance

Day	Body weight (g) <sup>1</sup>	Daily gain (g)	Av. daily gain/week (g)	Daily intake (g)	Cum. intake (g) <sup>2</sup>	FCR <sup>3</sup>
0	43					
1	61	18			14	0.222
2	79	18		18	31	0.395
3	100	20		22	53	0.530
4	123	23		25	78	0.636
5	148	26		29	107	0.720
6	177	28		32	139	0.787
7	208	31	23.55	36	175	0.842
8	242	34		40	215	0.888
9	279	37		44	259	0.926
10	320	40		48	307	0.959
11	363	43		52	359	0.988
12	409	46		57	415	1.015
13	458	49		61	476	1.039
14	511	52	43.24	66	542	1.062
15	566	55		71	613	1.083
16	624	58		76	688	1.104
17	684	61		81	769	1.124
18	747	63		86	855	1.144
19	813	66		91	946	1.163
20	881	68		96	1042	1.183
21	951	70	62.97	102	1144	1.202
22	1024	72		107	1251	1.222
23	1098	74		112	1363	1.241
24	1175	76		118	1481	1.261
25	1252	78		123	1604	1.281
26	1332	79		128	1732	1.300
27	1413	81		133	1865	1.320
28	1495	82	77.64	138	2004	1.340
29	1578	83		143	2147	1.360
30	1662	84		148	2295	1.380
31	1747	85		153	2447	1.401
32	1833	86		157	2605	1.421
33	1919	86		162	2766	1.441
34	2006	87		166	2932	1.462
35	2093	87	85.43	170	3102	1.482
36	2180	87		174	3276	1.503
37	2267	87		178	3453	1.523
38	2354	87		181	3635	1.544
39	2441	87		185	3819	1.564
40	2528	87		188	4007	1.585
41	2614	86		191	4198	1.606
42	2700	86	86.75	194	4392	1.626
43	2786	85		196	4588	1.647
44	2870	85		199	4787	1.668
45	2954	84		201	4988	1.688
46	3038	83		203	5192	1.709
47	3120	82		205	5397	1.730
48	3202	82		207	5604	1.750
49	3282	81	83.16	209	5813	1.771
50	3362	80		210	6023	1.792
51	3441	79		212	6235	1.812
52	3518	78		213	6447	1.833
53	3595	76		214	6661	1.853
54	3670	75		215	6876	1.874
55	3744	74		215	7091	1.894
56	3817	73	76.43	216	7307	1.914
57	3889	72		216	7523	1.934
58	3960	71		217	7740	1.955
59	4029	69		217	7957	1.975
60	4097	68		217	8173	1.995
61	4164	67		217	8390	2.015
62	4230	66		217	8607	2.035
63	4294	64	68.10	216	8823	2.055

<sup>1</sup>On-farm body weight (i.e. feed present in intestinal tract).

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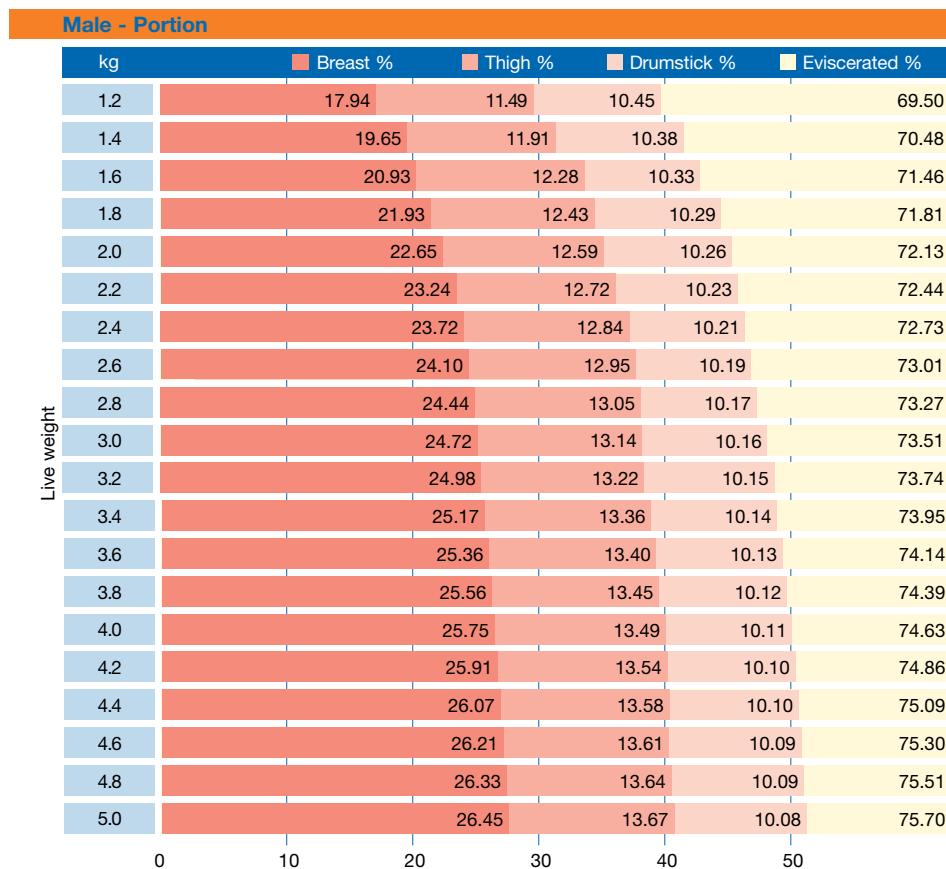


## Carcass Yield

The following diagrams indicate how yields of the major portions change with increasing live weight in each sex. Eviscerated yield is broken down into breast meat and leg meat to represent a deboning operation.

### Definitions of Terms

<b>Eviscerated %</b>	eviscerated carcass (without neck, abdominal fat and internal organs) as a percentage of live weight.
<b>Breast %</b>	breast meat (without skin and bone) as a percentage of live weight.
<b>Thigh/Drumstick %</b>	whole thigh/drumstick (with skin and bone) as a percentage of live weight.

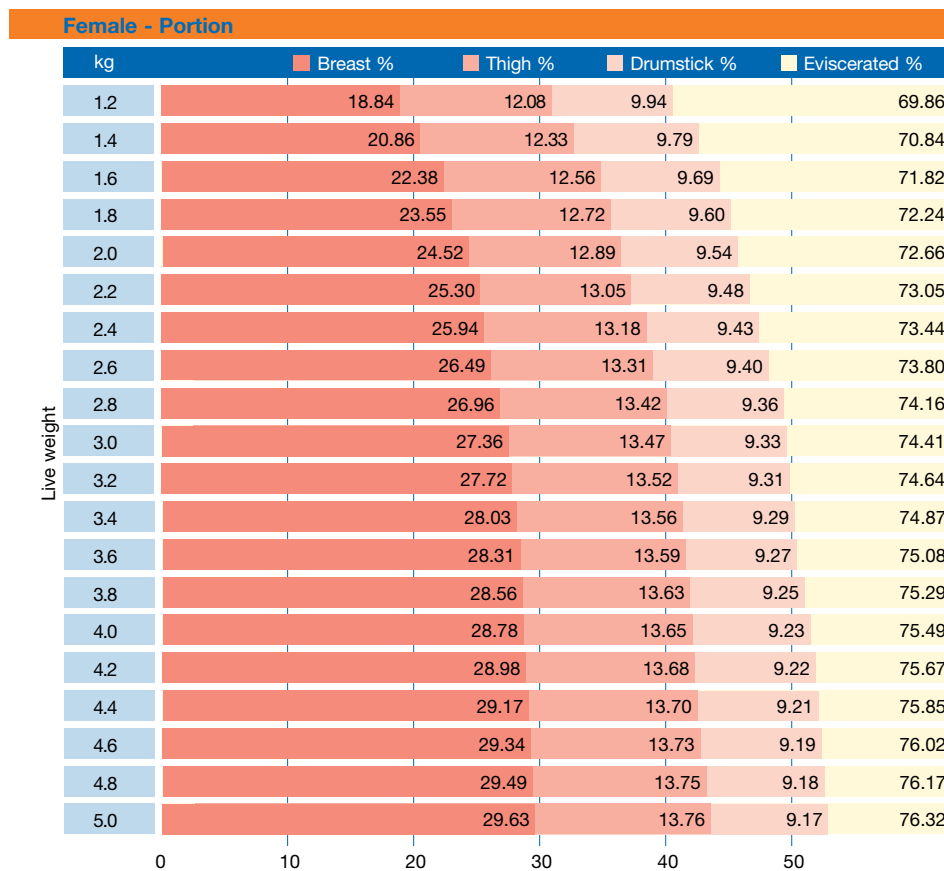


NOTE: These figures represent dry yield. They do not include any moisture retained during chilling or processing. Carcass component yields will vary among processing plants depending on, for example, type of equipment used and the exact portion(s) being produced.



**Definitions of Terms**

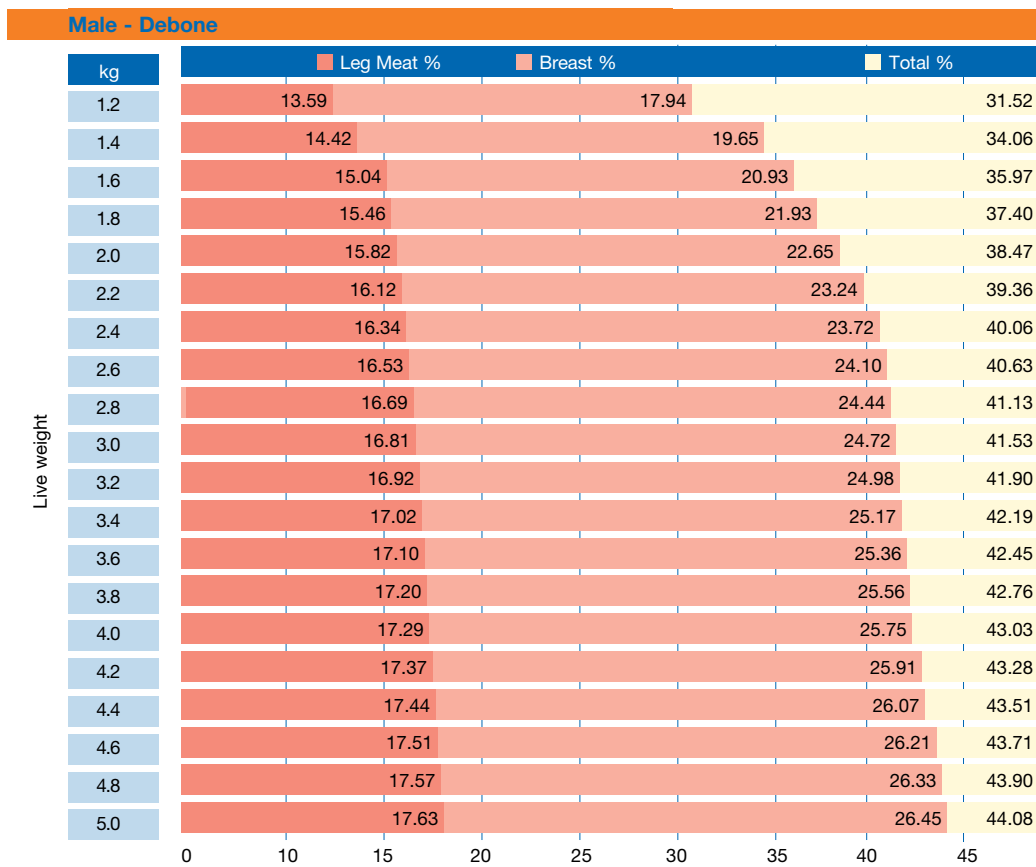
<b>Eviscerated %</b>	eviscerated carcass (without neck, abdominal fat and internal organs) as a percentage of live weight.
<b>Breast %</b>	breast meat (without skin and bone) as a percentage of live weight.
<b>Thigh/Drumstick %</b>	whole thigh/drumstick (with skin and bone) as a percentage of live weight.



*NOTE: These figures represent dry yield. They do not include any moisture retained during chilling or processing. Carcass component yields will vary among processing plants depending on, for example, type of equipment used and the exact portion(s) being produced.*

## Definitions of Terms

<b>Breast %</b>	breast meat (without skin and bone) as a percentage of live weight.
<b>Leg Meat %</b>	sum of deboned thigh (without skin) and deboned drumstick (without skin) as a percentage of live weight.
<b>Total %</b>	sum of leg meat and breast meat



*NOTE: These figures represent dry yield. They do not include any moisture retained during chilling or processing. Carcass component yields will vary among processing plants depending on, for example, type of equipment used and the exact portion(s) being produced.*

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