



# *Arbor Acres* plus

## **Broiler Performance Objectives**

*June 2007*



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- 3 Male Performance
- 4 Female Performance
- 5 Carcass Component Yield



## The Arbor Acres Plus

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The Arbor Acres Plus is available in two types, one which produces sexable broilers and one which produces all fast-feathering broilers.

The sexable type produces fast-feathering female broilers and slow-feathering male broilers. This allows the broilers to be sexed in the hatchery by evaluating feather development differences.

Growing male and female broilers separately allows companies to capitalize on the natural growth and developmental differences between the sexes and tailor their nutritional programs. It also enables different requirements for broilers within the same market to be met more efficiently [e.g. fast-feathering females can be grown to supply small birds (roisserie) and males for larger birds (de-boning)]. Sex-separate rearing also improves body weight uniformity of flocks for the processing plant.

The non-sexable type produces all fast-feathering broilers. They cannot be sexed in the hatchery by evaluating the feathers because males and females grow their feathers at the same rate. This early feather coverage helps protect skin from damage – leading to improved carcass quality and grade in the processing plant.

Both types will have similar growth, feed conversion and meat yield characteristics. The nutritional requirements for the broilers will also be the same.

This supplement should be used with the Arbor Acres Broiler Manual. For further information on managing Arbor Acres broilers, please consult your local Technical Services Manager or contact the Technical Services Department.

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# Arbor Acres Plus Broiler *As-Hatched Performance*

Day	Body Weight (g) <sup>1</sup>	Daily Gain(g)	Av. Daily Gain/Week (g)	Cum. Intake (g) <sup>2</sup>	FCR <sup>3</sup>	Day	Body Weight (g) <sup>1</sup>	Daily Gain(g)	Av. Daily Gain/Week (g)	Cum. Intake (g) <sup>2</sup>	FCR <sup>3</sup>
0	42					36	2102	89		3454	1.643
1	56	14		13		37	2192	90		3645	1.663
2	70	14		29		38	2281	89		3841	1.684
3	87	17		49		39	2370	89		4039	1.704
4	106	19		72		40	2459	89		4242	1.725
5	128	22		98		41	2548	89		4447	1.745
6	152	24		128		42	2637	89	89	4655	1.765
7	179	27	20	163	0.911	43	2724	87		4866	1.786
8	208	29		201	0.966	44	2811	87		5079	1.807
9	241	33		243	1.008	45	2898	87		5295	1.827
10	276	35		290	1.051	46	2983	85		5513	1.848
11	315	39		342	1.086	47	3068	85		5732	1.868
12	357	42		399	1.118	48	3152	84		5953	1.889
13	402	45		461	1.147	49	3234	82	85	6176	1.910
14	450	48	39	528	1.173	50	3316	82		6400	1.930
15	501	51		601	1.200	51	3396	80		6626	1.951
16	555	54		679	1.223	52	3475	79		6852	1.972
17	612	57		763	1.247	53	3553	78		7079	1.992
18	672	60		853	1.269	54	3629	76		7307	2.014
19	734	62		949	1.293	55	3705	76		7535	2.034
20	800	66		1051	1.314	56	3778	73	78	7764	2.055
21	868	68	60	1159	1.335	57	3851	73		7993	2.076
22	938	70		1273	1.357	58	3922	71		8223	2.097
23	1011	73		1393	1.378	59	3992	70		8452	2.117
24	1086	75		1519	1.399	60	4060	68		8681	2.138
25	1164	78		1651	1.418	61	4127	67		8910	2.159
26	1243	79		1788	1.438	62	4192	65		9139	2.180
27	1323	80		1932	1.460	63	4256	64	68	9368	2.201
28	1406	83	77	2080	1.479	64	4319	63		9596	2.222
29	1490	84		2235	1.500	65	4380	61		9824	2.243
30	1575	85		2394	1.520	66	4440	60		10051	2.264
31	1661	86		2559	1.541	67	4498	58		10277	2.285
32	1748	87		2729	1.561	68	4555	57		10503	2.306
33	1836	88		2904	1.582	69	4610	55		10728	2.327
34	1924	88		3083	1.602	70	4664	54	58	10952	2.348
35	2013	89	87	3266	1.622						

<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

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



# Arbor Acres Plus Broiler *Male Performance*

Day	Body Weight (g) <sup>1</sup>	Daily Gain(g)	Av. Daily Gain/Week (g)	Cum. Intake (g) <sup>2</sup>	FCR <sup>3</sup>
0	42				
1	54	12		12	
2	68	14		28	
3	84	16		47	
4	103	19		69	
5	124	21		95	
6	148	24		125	
7	175	27	19	159	0.909
8	205	30		198	0.966
9	238	33		241	1.013
10	275	37		289	1.051
11	314	39		342	1.089
12	358	44		401	1.120
13	405	47		466	1.151
14	455	50	40	536	1.178
15	509	54		612	1.202
16	567	58		694	1.224
17	628	61		783	1.247
18	692	64		878	1.269
19	760	68		980	1.289
20	831	71		1088	1.309
21	905	74	64	1202	1.328
22	982	77		1324	1.348
23	1061	79		1451	1.368
24	1144	83		1585	1.385
25	1228	84		1726	1.406
26	1315	87		1872	1.424
27	1404	89		2025	1.442
28	1495	91	84	2184	1.461
29	1588	93		2348	1.479
30	1682	94		2518	1.497
31	1777	95		2693	1.515
32	1873	96		2874	1.534
33	1970	97		3059	1.553
34	2068	98		3248	1.571
35	2167	99	96	3443	1.589

Day	Body Weight (g) <sup>1</sup>	Daily Gain(g)	Av. Daily Gain/Week (g)	Cum. Intake (g) <sup>2</sup>	FCR <sup>3</sup>
36	2265	98		3641	1.608
37	2364	99		3843	1.626
38	2463	99		4049	1.644
39	2562	99		4258	1.662
40	2660	98		4470	1.680
41	2758	98		4684	1.698
42	2856	98	98	4902	1.716
43	2952	96		5122	1.735
44	3048	96		5343	1.753
45	3143	95		5567	1.771
46	3236	93		5792	1.790
47	3329	93		6018	1.808
48	3420	91		6246	1.826
49	3510	90	93	6475	1.845
50	3599	89		6704	1.863
51	3686	87		6934	1.881
52	3772	86		7164	1.899
53	3856	84		7394	1.918
54	3938	82		7624	1.936
55	4019	81		7855	1.954
56	4099	80	84	8055	1.965
57	4176	77		8314	1.991
58	4254	78		8543	2.008
59	4327	73		8772	2.027
60	4399	72		8999	2.046
61	4470	71		9226	2.064
62	4539	69		9452	2.082
63	4607	68	73	9676	2.100
64	4672	65		9900	2.119
65	4736	64		10122	2.137
66	4799	63		10343	2.155
67	4859	60		10563	2.174
68	4918	59		10781	2.192
69	4976	58		10998	2.210
70	5031	55	61	11214	2.229

<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

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

# Arbor Acres Plus Broiler *Female Performance*

Day	Body Weight (g) <sup>1</sup>	Daily Gain(g)	Av. Daily Gain/Week (g)	Cum. Intake (g) <sup>2</sup>	FCR <sup>3</sup>	Day	Body Weight (g) <sup>1</sup>	Daily Gain(g)	Av. Daily Gain/Week (g)	Cum. Intake (g) <sup>2</sup>	FCR <sup>3</sup>
0	42					36	1939	80		3267	1.685
1	57	15		13		37	2019	80		3448	1.708
2	72	15		30		38	2099	80		3633	1.731
3	90	18		51		39	2179	80		3821	1.754
4	110	20		74		40	2259	80		4014	1.777
5	131	21		101		41	2338	79		4209	1.800
6	156	25		132		42	2417	79	80	4408	1.824
7	182	26	20	166	0.912	43	2496	79		4610	1.847
8	212	30		204	0.962	44	2575	79		4815	1.870
9	244	32		246	1.008	45	2653	78		5023	1.893
10	278	34		292	1.050	46	2730	77		5233	1.917
11	316	38		342	1.082	47	2807	77		5446	1.940
12	356	40		397	1.115	48	2883	76		5661	1.964
13	398	42		456	1.146	49	2958	75	77	5878	1.987
14	444	46	37	520	1.171	50	3032	74		6097	2.011
15	492	48		590	1.199	51	3106	74		6318	2.034
16	542	50		664	1.225	52	3178	72		6540	2.058
17	595	53		743	1.249	53	3250	72		6764	2.081
18	651	56		828	1.272	54	3320	70		6989	2.105
19	708	57		919	1.298	55	3390	70		7216	2.129
20	768	60		1014	1.320	56	3458	68	71	7444	2.153
21	831	63	55	1116	1.343	57	3526	68		7673	2.176
22	895	64		1222	1.365	58	3592	66		7902	2.200
23	961	66		1334	1.388	59	3657	65		8133	2.224
24	1029	68		1452	1.411	60	3721	64		8364	2.248
25	1099	70		1575	1.433	61	3784	63		8595	2.271
26	1170	71		1704	1.456	62	3846	62		8827	2.295
27	1242	72		1838	1.480	63	3906	60	64	9060	2.320
28	1316	74	69	1977	1.502	64	3965	59		9292	2.344
29	1391	75		2122	1.526	65	4024	59		9525	2.367
30	1468	77		2271	1.547	66	4081	57		9758	2.391
31	1545	77		2425	1.570	67	4137	56		9991	2.415
32	1622	77		2585	1.594	68	4191	54		10224	2.440
33	1701	79		2748	1.616	69	4245	54		10457	2.463
34	1780	79		2917	1.639	70	4297	52	56	10690	2.488
35	1859	79	78	3090	1.662						

<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

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## Arbor Acres Plus Male Broilers

Live Weight (g)	Eviscerated (%)	Breast (%)	Thigh (%)	Drumstick (%)	Leg Meat (%)
1600	70.30	17.66	12.32	10.27	16.09
1800	70.67	17.96	12.49	10.27	16.15
2000	71.03	18.24	12.65	10.28	16.19
2200	71.37	18.51	12.80	10.28	16.21
2400	71.71	18.75	12.93	10.28	16.24
2600	72.03	18.98	13.05	10.29	16.26
2800	72.33	19.19	13.16	10.29	16.28
3000	72.63	19.38	13.27	10.29	16.31
3200	72.91	19.55	13.37	10.30	16.33
3400	73.18	19.71	13.46	10.30	16.34
3600	73.44	19.84	13.55	10.30	16.35

## Arbor Acres Plus Female Broilers

Live Weight (g)	Eviscerated (%)	Breast (%)	Thigh (%)	Drumstick (%)	Leg Meat (%)
1600	69.79	18.23	12.61	9.67	15.12
1800	70.20	18.50	12.77	9.65	15.19
2000	70.61	18.76	12.94	9.62	15.26
2200	70.99	18.99	13.10	9.59	15.32
2400	71.36	19.21	13.23	9.57	15.37
2600	71.70	19.42	13.37	9.55	15.44
2800	72.03	19.60	13.48	9.51	15.49

### Processing Terms:

**Eviscerated %:** eviscerated carcass (without neck, abdominal fat and internal organs) as a percentage of live weight.

**Breast %:** breast meat (without skin and bone removed) as a percentage of live weight.

**Thigh/Drumstick %:** whole thigh/drumstick (with skin and bone in) as a percentage of live weight.

**Leg Meat %:** sum of deboned thigh (without skin) and deboned drumstick (without skin) as a percentage of live weight.

*Note: Carcass component yield will vary among processing plants depending on, for example, type of equipment used and the exact portion(s) being produced.*



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