

Appendix

Southeast DHIA Update 2010

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Data from DHIA herds in Alabama, Florida, Georgia, Mississippi, South Carolina and Tennessee were used to examine dairy production in the Southeastern United States. Data were obtained from files stored at Dairy Records Management Systems (DRMS), Raleigh, NC. Herds with data in the DRMS database as of mid-October, 2010 included: 321 Holstein herds, 44 Jersey herds and 60 herds of other breeds. In addition, the all DRMS average from 14,242 herds located in 41 states was used for reference.

Milk production for all 425 Southeast herds averaged 18,096 pounds (rolling herd average) which was 214 pounds per cow below last year. The 2X-305-day mature equivalent average was 20,260 pounds. Average 150-day milk was 61.7 pounds. Average peak milk was 67.5 pounds for first lactations and 89.8 pounds for older cows.

Herd size of Southeast herds averaged 296 cows per herd, up 7 from last year with 40% milking in lactation 1. All DRMS herds averaged 149 cows, with 38% first lactations. Herd turn-over rate was 38 and 35%, respectively. Death loss averaged 8.2% for Southeast herds and 5.9% for DRMS herds. Southeast herds averaged 295 calvings and had 84 heifer calves per 100 cows on hand. Sixty-one percent of services were to proven AI sires. Southeast herds averaged 78% heifers with known sire identity, where the average DRMS herd was 87%. Average sire identity for adult cows was 56% for Southeast herds and 74% for DRMS herds. Average reported milk price was \$18.60, up from last year's \$14.70.

Days to 1st service was 105 and first-service conception rate, 49%. Fifteen percent of cows were dry less than 40 days and 31% longer than 70 days. The actual, historical interval was 14.4 months. Calving difficulty scores above 4 were 5.5% for 1st-lactation cows. Average somatic cell count was 441 thousand compared to last year's 465 thousand. Average SCC score was 3.5.

In comparing performance among breeds, Jersey and other breeds had lower death loss, reduced herd exits for reproduction and notably higher pregnancy rates.

Differences among Southeastern states were few, but Florida herds were considerably larger (847 cows per herd) and Alabama and Tennessee herds smaller (145 cows per herd) than the average. Average milk per cow was greatest in South Carolina.

Table 1. Southeast DHIA. Comparison of Southeast herds to all DRMS herds 2010 (all breeds)

	2009 Southeast*	2009 DRMS**	2010 Southeast*	2010 DRMS**
No. Herds	444	14640	425	14282
No. Cows / Herd	289	146	296	149
No. 1st Lact	112	54	117	56
% 1st Lactation	39%	37%	40%	38%
Avg Days in Milk	202	189	208	190
% Left Herd	36	34	39	36
%died	7.9	6.0	8.2	5.9
%left Repro	6.3	6.1	6.1	5.8
Milk Price	14.70	12.90	18.60	16.90
Production				
Rolling HA Milk	18,308	20,362	18,096	20,440
Rolling HA Fat	685	770	668	764
Rolling HA Prot	566	629	558	629
Summit Milk 1st Lac	63	67	62	68
Summit Milk 3rd+	83	89	84	92
Peak Milk 1st Lac	69	73	68	73
Peak Milk 3rd+	92	98	90	98
Proj 305ME Milk	20,525	22,304	20,261	22,269
Std 150-day Milk	62	69	62	69
Udder Health				
SCC Actual	465	298	441	302
SCC Score	3.6	2.9	3.5	2.9
SCC Score 1st Lact	3.2	2.5	3.1	2.5
SCC Score 2nd Lact	3.5	2.8	3.4	2.8
SCC Score 3rd Lact	4.1	3.4	4.0	3.4
Reproduction				
PregRate Current	10.8	15.8	12.4	15.7
Actual Calving Int	14.5	14.1	14.4	14
Days to 1st Serv	105	96	105	96
1st Serv Concep Rate	49	44	49	44
# Calvings	287	150	296	157
%Dry < 40 days	15	15	15	15
%Dry > 70 days	32	25	31	25
Genetics				
%Bred to Proven bulls	63	57	61	55
%Bred to non-AI	36	23	35	23
%Heifers with Sire ID	78	87	79	87
%Cows with Sire ID	57	73	56	74
# calves per 100 cows	81	88	84	90
% Birth Difficulty >4 for 1st Lact	4.7	5.1	5.5	4.8

* Southeast – includes 6 southeastern states: FL, GA, SC, TN, AL, MS

** DRMS - includes all herds processed by DRMS

Table 2. Southeast DHIA. Comparison by state 2010

	FI	GA	SC	TN	AL	MS
Number of Herds	50	119	27	94	13	18
Number of Cows-All Lact	847	311	247	145	145	219
% First Lact	40%	40%	41%	38%	34%	37%
Days in Milk	207	214	214	210	211	226
Cows Left Herd-All Lact, %	39	40	40	37	38	35
Cows Left Herd-1st Lact, %	24	22	19	22	11	19
Cows Died-All Lact, %	9.5	8.7	6.3	8.7	6.1	6.9
Cows Left Herd- Repro-All Lact, %	5.5	8	6.7	3.8	6.4	8.1
Milk Blend Price	\$19.20	\$18.70	\$19.10	\$17.40	\$18.90	\$17.50
Production						
Rolling Milk	18,594	18,631	21,017	18,889	17,103	19,867
Rolling Fat	626	669	764	688	563	719
Rolling Protein	538	567	651	571	498	626
Summit Milk 1st Lact	66	64	72	66	58	67
Summit Milk 3rd+ Lact	89	87	97	86	80	88
Peak Milk 1st Lact	72	70	78	70	64	73
Peak Milk 3rd+ Lact	96	93	104	92	87	95
Proj 305 Day ME Milk	20,650	20,915	23,157	21,307	18,854	21,407
Standardized 150 Day Milk	63	64	68	66	62	64
Udder Health						
SCC Actual	445	445	400	449	471	445
SCC Score for 1st Lact Cows	3.2	3.1	3.1	3.1	3.4	2.8
SCC Score for 2nd Lact Cows	3.6	3.4	3.4	3.3	3.5	3.2
SCC Score for 3rd+ Lact Cows	4.2	4.0	4.1	4.1	4.2	3.8
Cows culled for mastitis, %	2.7	3.1	4.5	3.4	2.3	2.4
Reproduction						
Days to First Service	103	108	109	106	118	99
Avg Preg Rate	11.8	11.7	12.3	11.8	10.0	13.3
Actual Calving Interval	14.2	14.5	14.4	14.6	15.1	14.4
Births 4+ Calving Diff-1st Lact, %	5.6	9.3	3.8	4.1	0.6	10.7
Voluntary Waiting Period(VWP)	58	57	58	55	60	60
Days to 1st Serv-(%herd < VWP)	14.4	14.7	13.4	17.6	19.2	14.3
Serv per Preg-All Lact	2.8	2.7	2.8	2.5	3.4	3.3
Con Rate for Past 12M-1st Serv	52	50	49	52	33	35.6
Abortions in Past 12 Months	7.7	2.7	1.5	1	1	2.1
Calvings in Past Year	839	305	255	149	132	212
Dry Less Than 40 Days, %	16	14	14	16	19	11
Dry More Than 70 Days, %	33	32	27	31	31	22
Genetics						
%ile Rank of Proven AI Bulls	44.0	46.2	49.6	41.6	30.3	53.0
Herd Bred to Proven AI Bulls, %	56.0	64.0	52.3	59.4	83.2	63.9
Net Merit \$ for 1st Lact Cows	12.7	39.8	75.0	4.6	2.0	59.6
Net Merit \$ for All Cows	5.0	6.8	26.6	1.0	2.0	11.2
Net Merit \$ for Heifer	103.0	88.3	90.3	52.6	64.3	84.4
Heifers ID'd by Sire, %	63.0	76.5	84.4	79.9	65.0	82.1
Cows IDd by Sire, %	30.0	46.2	61.6	64.5	46.7	71.1
No.Heifers per 100 cows	66.0	76.1	96.0	94.6	71.3	90.6

Data from DRMS - Oct. 2010 Holstein Herds

Table 3. Southeast DHIA. Comparison by breed 2010

	2010 Southeast Holstein	2010 DRMS Holstein	2010 Southeast Jersey	2010 DRMS Jersey
No. Herds	321	12095	44	632
No. Cows / Herd	329	155	158	111
No. 1st Lact	130	59	55	37
% 1st Lactation	40%	38%	35%	33%
Avg Days in Milk	212	191	179	178
% Left Herd	39	36	37	32
%died	8.4	5.9	7.3	4.9
%left Repro	6.2	5.9	3.7	4.0
Milk Price	18.40	16.70	19.40	18.60
Production				
Rolling HA Milk	18,915	21,174	14,511	14,355
Rolling HA Fat	678	781	671	673
Rolling HA Prot	574	645	516	515
Summit Milk 1st Lac	65	70	49	49
Summit Milk 3rd+	87	95	68	65
Peak Milk 1st Lac	71	75	53	53
Peak Milk 3rd+	94	101	73	69
Proj 305ME Milk	21,123	23,069	16,725	15,619
Std 150-day Milk	64	71	51	48
Udder Health				
SCC Actual	443	302	417	306
SCC Score	3.5	2.9	3.5	3.1
SCC Score 1st Lact	3.1	2.5	3.2	2.9
SCC Score 2nd Lact	3.4	2.7	3.3	2.8
SCC Score 3rd Lact	4.1	3.4	4.0	3.5
Reproduction				
PregRate Yr Avg	11.9	15.6	16.1	19.5
Actual Calving Int	14.5	14	14.1	13.5
Days to 1st Serv	107	96	95	91
1st Serv Concep Rate	50	44	45	49
# Calvings	326	163	164	116
%Dry < 40 days	15	15	10	12
%Dry > 70 days	31	24	32	23
Genetics				
%Bred to Proven bulls	61	55	63	61
%Bred to non-AI	36	22	13	21
%Heifers with Sire ID	76	87	92	88
%Cows with Sire ID	52	73	88	83
# calves per 100 cows	82	90	100	90
% Birth Difficulty >4 for 1st Lact	6.4	5.1	0.6	1.6

* Southeast - includes 6 southeastern states

** DRMS - includes all herds processed by DRMS

Table 4. Southeast DHIA. 2010 Florida DHIA herd performance averages*

	1993	2003**	2006**	2007**	2008**	2010**
No. Cows	55,648	56,366	54,978	51,406	51,711	47,128
No. Herds	122	92	66	62	59	58
Average Herd Size	456	613	833	829	876	812
% Days in Milk	86	84	85	86	86	87
Pounds of Milk	17,761	18,160	18,835	19,607	18,982	19,825
Peak Milk - 1st Calf (lbs./day)	67	70	72	74	75	70
Peak Milk - 2nd & Later (lbs./day)	88	88	91	94	93	91
Fat %	3.5	3.8	3.6	3.6	3.4	3.4
Pounds of Fat	622	683	687	705	655	669
Pounds of Protein	592	541	546	566	541	553
Value of Milk (\$)	2,658	2,579	2,982	3,558	3,904	3,355
Proj. Minimum Calving Interval	14.1	16	15.7	15.7	15.3	15.2
Days Dry	69	78	72	74	73	72
% Cows Dry > 70 Days	19	37	18	20	19	30
Days to 1st Breeding	77	107	110	109	107	103
Days Open	148	197	196	197	190	182
% cows Open > 100 d at 1st Bred	14	33	27	25	25	20
No. Breedings per Conception	4.0	3.0	2.8	3.1	2.7	2.8
% Possible Breeding Serviced	52	26	25	26	24	28
Age at 1st Calving (months)	25	25	26	25	25	25
Age - All Cows (months)	44	44	44	45	46	42
% With Sire Identity	34	23	35	36	37	42
Average PTA\$ Sires	151	86	119	127	163	152
Average PTA\$ Service Sires	210	344	304	291	343	336
% Left Herd	40	39	34	32	33	34

* September 30, of the respective year

** Cows in Herds on all types of test (01-74)

Table 5. Southeast DHIA. 2010 DHIA Production Recognition of High Florida Herds*

Producer	City	Milkings	RHA Milk	RHA Fat	RHA Protein	Data Collection Rating Milk
WHITE OAK DAIRY	MAYO	3X	25,543			89.2
BRANDY BRANCH DAIRY	BALDWIN	3X	23,287		692	96.5
D.P.S. BELL	BELL	3X	22,903	686		96.7
JEFFCO DAIRY	QUITMAN	3X	22,873			101.8
LARSON DAIRY #5	OKEECHOBEE	3X	22,856	840	680	89.2
NORTH FL HOLSTEINS	BELL	3X	22,759	818	664	103.0
D.P.S. BRANFORD	BRANFORD	3X	22,573	688	667	96.7
BRIAN MCADAMS	MAYO	3X	22,547			89.1
SUWANNEE DAIRY INC	MC ALPIN		22,474	769	672	99.5
ELJIM DAIRY	GRANDIN		22,351	873	642	50.9
IFAS DAIRY UNIT	GAINESVILLE		21,901	800	651	103.2
SHIVER DAIRY	MAYO		21,754			75.9
MILK-A-WAY	WEBSTER		21,187	663	613	95.0
SHENANDOAH DAIRY	LIVE OAK		21,157	769	619	101.2
ATR DAIRY LLC	MAYO		20,351			94.1
WALKER & SONS FARM	MONTICELLO		20,335			99.6
T.K. HATTEN DAIRY INC	BROOKSVILLE	3X	20,119			68.4

* *Production as of September 30, 2010*

Southeast DHIA – Testing cows in Florida and Georgia

NOTES
