

DOMESTIC DAIRY SEMEN SALES (1)

UNITS OF SEMEN

BREED	1993	1992	%+/-
HOLSTEIN	12,112,725	12,230,156	-0.96%
JERSEY	567,451	584,145	-2.86%
BROWN SWISS	111,871	115,483	-3.13%
GUERNSEY	109,985	127,876	-13.99%
AYRSHIRE	42,790	45,414	-5.78%
MILKING SHORTHORN	12,393	14,067	-11.90%
OTHER DAIRY	153	250	-38.80%
TOTAL	<u>12,957,368</u>	<u>13,117,391</u>	<u>-1.22%</u>

CUSTOM FROZEN DAIRY SEMEN (1)

UNITS OF SEMEN

BREED	1993	1992	%+/-
HOLSTEIN	564,922	516,794	9.31%
BROWN SWISS	97,603	75,482	29.31%
JERSEY	39,197	41,032	-4.47%
AYRSHIRE	6,187	3,223	91.96%
GUERNSEY	2,284	2,750	-16.95%
MILKING SHORTHORN	1,115	3,324	-66.46%
OTHER DAIRY	0	88	-100.00%
TOTAL	<u>711,308</u>	<u>642,693</u>	<u>10.68%</u>

DAIRY SEMEN EXPORT SALES (1)

UNITS OF SEMEN

BREED	1993	1992	%+/-
HOLSTEIN	5,698,212	4,636,819	22.89%
JERSEY	289,087	224,594	28.72%
BROWN SWISS	276,234	247,398	11.66%
GUERNSEY	22,353	14,641	52.67%
AYRSHIRE	20,694	5,998	245.02%
OTHER DAIRY	765	2,000	-61.75%
TOTAL	<u>6,307,345</u>	<u>5,131,450</u>	<u>22.92%</u>

DAIRY SEMEN EXPORT SALES (2)

UNITS OF SEMEN

REGION	1993	1992	%+/-
EUROPEAN COMMUNITY	1,809,498	1,167,863	54.94%
SOUTH AMERICA	1,461,767	1,249,744	16.97%
NORTH AMERICA	877,544	938,920	-6.54%
OCEANIA	726,886	495,027	46.84%
ASIA	475,725	545,516	-12.79%
MIDDLE EAST	268,684	191,302	40.45%
EASTERN EUROPE	196,424	99,531	97.35%
AFRICA	187,148	129,177	44.88%
OTHER WESTERN EUROPE	160,334	175,076	-8.42%
CENTRAL AMERICA	127,811	145,093	-11.91%
CARRIBEAN	28,381	25,698	10.44%
TOTAL	<u>6,320,202</u>	<u>5,162,947</u>	<u>22.41%</u>

DAIRY SEMEN EXPORT SALES (2)

DOLLAR VALUE

REGION	1993	1992	%+/-
EUROPEAN COMMUNITY	\$24,481,948	\$17,255,879	41.88%
SOUTH AMERICA	5,589,367	4,974,998	12.35%
NORTH AMERICA	5,540,523	5,889,757	-5.93%
OCEANIA	5,506,605	3,391,687	62.36%
ASIA	3,409,776	3,264,163	4.46%
OTHER WESTERN EUROPE	2,135,152	2,438,777	-12.45%
MIDDLE EAST	1,963,594	1,546,423	26.98%
AFRICA	1,619,815	1,053,865	53.70%
EASTERN EUROPE	1,370,864	800,306	71.29%
CENTRAL AMERICA	626,593	630,339	-0.59%
CARRIBEAN	139,285	121,418	14.72%
TOTAL	<u>\$52,383,522</u>	<u>\$41,367,612</u>	<u>26.63%</u>

DOMESTIC BEEF SEMEN SALES (1)

UNITS OF SEMEN

BREED	1993	1992	%+/-
ANGUS	618,167	556,884	11.00%
SIMMENTAL	132,960	138,036	-3.68%
POLLED HEREFORD	104,132	110,345	-5.63%
RED ANGUS	52,300	40,516	29.08%
BRAHMAN	49,916	56,646	-11.88%
LIMOUSIN	38,754	28,232	37.27%
CHAROLAIS	27,090	31,007	-12.63%
GELBVIEWH	25,870	29,159	-11.28%
HEREFORD	14,063	11,735	19.84%
CHIANINA	6,610	10,279	-35.69%
MAINE ANJOU	6,429	8,670	-25.85%
BELGIAN BLUE	6,111	5,415	12.85%
SALERS	5,185	7,881	-34.21%
BRANGUS	4,781	7,053	-32.21%
SHORTHORN	4,627	6,355	-27.19%
PIEDMONT	4,610	4,578	0.70%
BEEFMASTER	2,883	3,428	-15.90%
LONGHORN	1,771	3,240	-45.34%
CHI-MAINE	1,618	1,749	-7.49%
TARENDAISE	1,497	1,386	8.01%
SHORTHORN (SCOTCH)	1,486	0	
BRAHMAN (RED)	1,147	2,382	-51.85%
OTHER BEEF (a)	5,791	9,669	-40.11%
TOTAL	<u>1,117,798</u>	<u>1,074,645</u>	<u>4.02%</u>

(a) Other Beef includes: Blonde D'Aquit., Braford, Brahmental/Simbrah, Red Brangus, Braunvieh, South Devon, Gyr, Indu Brazil, Marchigiana, Murray Grey, Nellore, Norwegian Red Pinzgauer, Romagnola, Red Poll, Santa Gertrudis, Tabapua, Misc. Beef.

BEEF SEMEN EXPORT SALES (1)

UNITS OF SEMEN

BREED	1993	1992	%+/-
ANGUS	98,771	105,132	-6.05%
RED ANGUS	68,472	45,604	50.14%
SIMMENTAL	66,647	95,711	-30.37%
POLLED HEREFORD	43,768	56,130	-22.02%
BRAHMAN	36,774	44,754	-17.83%
CHAROLAIS	23,904	14,025	70.44%
LIMOUSIN	19,931	36,771	-45.80%
BRANGUS	4,472	2,775	61.15%
GELBVIEH	3,672	10,593	-65.34%
HEREFORD	3,560	4,490	-20.71%
BRAUNVIEH	3,450	6,520	-47.09%
PIEDMONT	2,515	6,904	-63.57%
BELGIAN BLUE	2,038	2,020	0.89%
GYR	1,928	2,923	-34.04%
SHORTHORN (SCOTCH)	1,472	0	
BRAHMENTAL-SIMBRAH	1,470	1,155	27.27%
SANTA GERTRUDIS	1,370	2,621	-47.73%
CHIANINA	1,240	525	136.19%
BEEFMASTER	1,029	1,479	-30.43%
OTHER BEEF (b)	6,882	11,026	-37.58%
TOTAL	393,365	451,158	-12.81%

(b) Other Beef includes: Blonde D'Aquit., Brahmousin, Chi-Maine, South Devon, Indu-Brazil, Longhorn, Maine Anjou, Nellore, Salers, Senapol, Shorthorn, Tabapua, Misc. Beef.

CUSTOM FROZEN BEEF SEMEN (1)

UNITS OF SEMEN

BREED	1993	1992	%+/-
ANGUS	379,942	243,383	56.11%
LIMOUSIN	145,217	128,585	12.93%
MAINE ANJOU	131,556	103,107	27.59%
RED ANGUS	116,820	49,853	134.33%
SIMMENTAL	114,453	165,685	-30.92%
HEREFORD	102,083	117,753	-13.31%
CHAROLAIS	94,085	85,100	10.56%
BRANGUS	85,662	76,359	12.18%
BEEFMASTER	83,168	58,126	43.08%
GELBIEH	76,641	73,175	4.74%
POLLED HEREFORD	59,549	56,243	5.88%
SALERS	48,735	49,826	-2.19%
CHIANINA	29,217	43,069	-32.16%
CHI-ANGUS	20,265	21,928	-7.58%
BRAHMAN	19,458	65,400	-70.25%
SOUTH DEVON	18,789	3,917	379.68%
WAGYU	18,478	9,209	100.65%
LONGHORN	18,240	7,551	141.56%
CHI-MAINE	16,443	6,316	160.34%
SHORTHORN	14,567	19,043	-23.50%
SENAPOL	13,465	3,920	243.49%
BRAHMENTAL/SIMBRAH	11,801	13,434	-12.16%
BELGIAN BLUE	11,184	9,894	13.04%
SANTA GERTRUDIS	10,534	6,647	58.48%
SHORTHORN (SCOTCH)	9,596	7,940	20.86%
BRAUNVIEH	7,072	2,164	226.80%
NELLORE	6,699	2,564	161.27%
RED BRANGUS	6,449	4,031	59.99%
DUTCH BELTED	6,214	0	
PIEDMONT	5,830	4,588	27.07%
BEEFALO	5,187	14,777	-64.90%
OTHER BEEF (c)	60,025	68,727	-12.66%
TOTAL	1,747,424	1,522,314	14.79%

(c) Other Beef includes: American Breed, Amerifax, Barzona, Blonde D'Aquit., Beef Friesian, Braford, Red Brahman, Braler, Braunvieh, British White, Corriente, Dexter, Galloway Nellore, Norweigian Red, Piedmont, Pinzgauer, Romagnola, Red Poll, Scotch Highland, Senapol, Tarentaise, White Park, Crossbreed and Misc. Beef.

BEEF SEMEN EXPORT SALES (2)

UNITS OF SEMEN

REGION	1993	1992	%+/-
SOUTH AMERICA	246,893	242,423	1.84%
NORTH AMERICA	60,464	87,443	-30.85%
CENTRAL AMERICA	38,771	42,788	-9.39%
OCEANIA	22,979	17,953	28.00%
ASIA	11,945	44,745	-73.30%
CARRIBEAN	4,885	1,828	167.23%
EUROPEAN COMMUNITY	4,650	59	7781.36%
EASTERN EUROPE	4,440	7,044	-36.97%
AFRICA	1,978	4,043	-51.08%
OTHER WESTERN EUROPE	729	464	57.11%
MIDDLE EAST	100	0	
TOTAL	<u>397,834</u>	<u>448,790</u>	<u>-11.35%</u>

BEEF SEMEN EXPORT SALES (2)

DOLLAR VALUE

REGION	1993	1992	%+/-
SOUTH AMERICA	\$701,369	\$691,511	1.43%
NORTH AMERICA	317,061	476,899	-33.52%
OCEANIA	216,090	194,351	11.19%
CENTRAL AMERICA	167,852	181,063	-7.30%
ASIA	59,950	249,658	-75.99%
EUROPEAN COMMUNITY	31,801	573	5449.91%
EASTERN EUROPE	27,080	38,620	-29.88%
AFRICA	24,468	45,320	-46.01%
CARIBBEAN	17,346	4,953	250.21%
OTHER WESTERN EUROPE	10,559	8,450	24.96%
MIDDLE EAST	1,050	0	
TOTAL	<u>\$1,574,626</u>	<u>\$1,891,398</u>	<u>-16.75%</u>

IV46

(1) BASED ON QUARTERLY REPORTS OF SEMEN SOLD AND CUSTOM FROZEN

(2) BASED ON QUARTERLY SURVEY OF SEMEN SOLD FOR EXPORT