

**DOMESTIC DAIRY SEMEN SALES (1)**  
UNITS OF SEMEN

BREED	1996	1995	%+/-
HOLSTEIN	12,031,677	11,930,092	0.85%
JERSEY	597,787	595,487	0.39%
BROWN SWISS	115,484	118,424	-2.48%
GUERNSEY	82,724	91,916	-10.00%
AYRSHIRE	37,435	35,422	5.68%
MILKING SHORTHORN	13,673	15,765	-13.27%
OTHER DAIRY	0	86	-100.00%
TOTAL	<u>12,878,780</u>	<u>12,787,192</u>	<u>0.72%</u>

**CUSTOM FROZEN DAIRY SEMEN (1)**  
UNITS OF SEMEN

BREED	1996	1995	%+/-
HOLSTEIN	549,149	611,091	-10.14%
BROWN SWISS	58,273	68,546	-14.99%
JERSEY	14,658	25,890	-43.38%
AYRSHIRE	7,483	1,254	496.73%
MILKING SHORTHORN	7,264	2,599	179.49%
GUERNSEY	1,583	4,510	-64.90%
OTHER DAIRY	0	0	0.00%
TOTAL	<u>638,410</u>	<u>713,890</u>	<u>-10.57%</u>

**DAIRY SEMEN EXPORT SALES (1)**  
UNITS OF SEMEN

BREED	1996	1995	%+/-
HOLSTEIN	7,421,543	7,416,403	0.07%
JERSEY	391,182	421,820	-7.26%
BROWN SWISS	297,569	277,259	7.33%
GUERNSEY	18,243	18,986	-3.91%
AYRSHIRE	14,579	14,185	2.78%
OTHER DAIRY	920	585	57.26%
TOTAL	<u>8,144,036</u>	<u>8,149,238</u>	<u>-0.06%</u>

**DAIRY SEMEN EXPORT SALES (2)**  
UNITS OF SEMEN

REGION	1996	1995	%+/-
SOUTH AMERICA	2,747,806	2,495,693	10.10%
EUROPEAN UNION	2,132,783	2,210,350	-3.51%
NORTH AMERICA	1,021,564	886,059	15.29%
OCEANIA	571,603	932,195	-38.68%
ASIA	496,644	471,873	5.25%
EASTERN EUROPE	369,072	362,716	1.75%
MIDDLE EAST	325,437	265,286	22.67%
AFRICA	218,698	215,187	1.63%
OTHER WESTERN EUROPE	140,796	105,535	33.41%
CENTRAL AMERICA	128,203	147,203	-12.91%
CARRIBEAN	24,140	24,575	-1.77%
TOTAL	<u>8,176,746</u>	<u>8,116,672</u>	<u>0.74%</u>

**DAIRY SEMEN EXPORT SALES (2)**  
DOLLAR VALUE

REGION	1996	1995	%+/-
EUROPEAN UNION	\$25,222,271	\$27,894,024	-9.58%
SOUTH AMERICA	10,071,143	10,026,289	0.45%
NORTH AMERICA	5,434,232	4,746,096	14.50%
OCEANIA	3,768,765	5,941,577	-36.57%
ASIA	3,666,396	3,855,882	-4.91%
EASTERN EUROPE	3,109,541	2,778,857	11.90%
MIDDLE EAST	1,960,993	1,741,210	12.62%
AFRICA	1,922,114	2,257,200	-14.85%
OTHER WESTERN EUROPE	1,223,930	1,283,123	-4.61%
CENTRAL AMERICA	570,667	689,558	-17.24%
CARRIBEAN	112,825	116,509	-3.16%
TOTAL	<u>\$57,062,877</u>	<u>\$61,330,325</u>	<u>-6.96%</u>

**DOMESTIC BEEF SEMEN SALES (1)**  
UNITS OF SEMEN

BREED	1996	1995	%+/-
ANGUS	556,780	597,654	-6.84%
SIMMENTAL	101,577	102,598	-1.00%
POLLED HEREFORD	67,556	81,601	-17.21%
RED ANGUS	52,418	51,689	1.41%
BRAHMAN	26,594	24,171	10.02%
LIMOUSIN	19,581	30,902	-36.64%
CHAROLAIS	18,490	26,274	-29.63%
GELBVIEWH	15,004	17,991	-16.60%
MAINE ANJOU	7,427	7,701	-3.56%
HEREFORD	5,988	8,938	-33.01%
CHIANINA	5,344	7,312	-26.91%
NELLORE	3,540	6,831	-48.18%
SHORTHORN	2,533	2,754	-8.02%
PIEDMONTESE	2,242	3,170	-29.27%
SCOTCH SHORTHORN	1,890	983	92.27%
SALERS	1,787	2,730	-34.54%
BELGIAN BLUE	1,756	2,382	-26.28%
BRANGUS	1,455	2,238	-34.99%
GYR	1,355	1,413	-4.10%
BEEFMASTER	1,349	2,867	-52.95%
OTHER BEEF (a)	8,558	14,932	-42.69%
TOTAL	903,224	997,131	-9.42%

(a) Other Beef includes: Ankina, Blonde D'Aquit., Braford, Brahman (Red), Brahmmental-Simbrah, Brahmousin, Brangus (Red), Braunvieh, ChiAngus, Chi-Maine Devon (South), Dexter, Dutch Belted, Galloway, Longhorn, Murray Grey, Norwegian Red, Romagnola, Red Poll, Santa Gertrudis, Scotch Highland, Senapol, Tarentaise, Wagyu and Misc. Beef.

**BEEF SEMEN EXPORT SALES (1)**  
UNITS OF SEMEN

BREED	1996	1995	%+/-
RED ANGUS	115,598	105,320	9.76%
ANGUS	103,886	126,436	-17.84%
SIMMENTAL	64,180	76,825	-16.46%
BRAHMAN	45,533	30,179	50.88%
POLLED HEREFORD	45,446	61,701	-26.34%
CHAROLAIS	19,948	14,416	38.37%
LIMOUSIN	11,760	28,385	-58.57%
GELBVIEWH	5,288	5,137	2.94%
BELGIAN BLUE	4,210	1,475	185.42%
BRAHMAN (RED)	3,372	4,490	-24.90%
GYR	3,050	3,013	1.23%
HEREFORD	2,780	6,374	-56.39%
BRANGUS	1,138	6,490	-82.47%
PIEDMONTESE	1,110	1,772	-37.36%
OTHER BEEF (b)	11,131	18,063	-38.38%
TOTAL	<u>438,430</u>	<u>490,076</u>	<u>-10.54%</u>

(b) Other Beef includes: Blonde D'Aquit., Beefmaster, Brahmental-Simbrah, Braunvieh, ChiAngus, Chianina, Devon (South), Dexter, Galloway, Indu-Brazil, Longhorn, Maine-Anjou, Nellore, Salers, Santa Gertrudis, Senapol, Shorthorn, Shorthorn (Scotch), Misc. Beef.

**CUSTOM FROZEN BEEF SEMEN (1)**  
UNITS OF SEMEN

BREED	1996	1995	%+/-
ANGUS	599,730	469,137	27.84%
LIMOUSIN	106,669	138,792	-23.14%
MAINE ANJOU	98,148	146,210	-32.87%
WAGYU	81,498	103,536	-21.29%
RED ANGUS	78,165	103,512	-24.49%
SIMMENTAL	78,575	112,269	-30.01%
HEREFORD	75,761	80,612	-6.02%
BEEFMASTER	64,504	72,055	-10.48%
BRANGUS	51,617	79,092	-34.74%
GELBVIEW	51,046	60,675	-15.87%
POLLED HEREFORD	47,278	62,131	-23.91%
BRAUNVIEW	46,640	58,067	-19.68%
CHAROLAIS	44,936	57,910	-22.40%
BRAHMAN	29,348	24,198	21.28%
CHI-MAINE	23,349	14,748	58.32%
SALERS	22,648	26,067	-13.12%
DUTCH BELTED	21,397	21,115	1.34%
RED BRANGUS	18,560	14,755	25.79%
SHORTHORN (SCOTCH)	17,924	19,989	-10.33%
CHI-ANGUS	17,076	25,268	-32.42%
SHORTHORN	13,907	13,131	5.91%
TEXAS LONGHORN	13,587	13,656	-0.51%
SANTA GERTRUDIS	10,798	13,050	-17.26%
SOUTH DEVON	9,576	9,999	-4.23%
BRAHMENTAL/SIMBRAH	9,308	12,686	-26.63%
CHIANINA	7,252	26,400	-72.53%
OTHER BEEF (c)	122,843	103,061	19.19%
TOTAL	<u>1,762,140</u>	<u>1,882,121</u>	<u>-6.37%</u>

(c) Other Beef includes: Amerifax, Barzona, Blonde D'Aquit., Beefalo, Belgian Blue, Belted Galloway, Braford, Buelingo, Devon, Dexter, Galloway, Marchigiana, Murray Grey, Nellore, Normande, Piedmontese, Pinzgauer, Romagnola, Red Poll, Scotch Highland, Senapol, Tabapua, Tarentaise, White Park, Yak, Crossbreed and Misc. Beef.

**BEEF SEMEN EXPORT SALES (2)**  
UNITS OF SEMEN

REGION	1996	1995	%+/-
SOUTH AMERICA	307,725	339,321	-9.31%
NORTH AMERICA	60,227	60,670	-0.73%
CENTRAL AMERICA	25,080	28,585	-12.26%
OCEANIA	23,014	40,997	-43.86%
EASTERN EUROPE	10,400	11,474	-9.36%
MIDDLE EAST	8,991	540	1565.00%
AFRICA	5,478	3,516	55.80%
CARRIBEAN	3,350	3,066	9.26%
ASIA	3,320	3,290	0.91%
EUROPEAN UNION	3,268	1,327	146.27%
OTHER WESTERN EUROPE	1,310	2,400	-45.42%
TOTAL	<u>452,163</u>	<u>495,186</u>	<u>-8.69%</u>

**BEEF SEMEN EXPORT SALES (2)**  
DOLLAR VALUE

REGION	1996	1995	%+/-
SOUTH AMERICA	\$779,758	\$850,287	-8.29%
NORTH AMERICA	344,856	348,790	-1.13%
OCEANIA	208,078	348,112	-40.23%
CENTRAL AMERICA	96,675	106,985	-9.64%
AFRICA	63,873	45,008	41.91%
EASTERN EUROPE	47,382	29,736	59.34%
MIDDLE EAST	19,584	5,755	240.30%
EUROPEAN UNION	17,120	5,754	197.53%
ASIA	16,927	17,478	-3.15%
OTHER WESTERN EUROPE	16,600	34,500	-51.88%
CARIBBEAN	11,991	15,836	-24.28%
TOTAL	<u>\$1,622,844</u>	<u>\$1,808,241</u>	<u>-10.25%</u>

IV46

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

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