

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

BREED	2000	1999	%+/-
HOLSTEIN	12,180,243	12,419,266	-1.92%
JERSEY	771,160	733,587	5.12%
R&W/RED HOLSTEIN	122,739	144,511	-15.07%
BROWN SWISS	118,954	114,781	3.64%
HOLSTEIN-RED CARRIER	91,487	96,477	-5.17%
GUERNSEY	55,662	59,286	-6.11%
AYRSHIRE	33,955	39,503	-14.04%
MILKING SHORTHORN	13,323	13,749	-3.10%
OTHER DAIRY			0.00%
TOTAL	<u>13,387,523</u>	<u>13,621,160</u>	<u>-1.72%</u>

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

BREED	2000	1999	%+/-
HOLSTEIN	619,613	514,637	20.40%
BROWN SWISS	48,096	68,025	-29.30%
JERSEY	23,767	43,506	-45.37%
MILKING SHORTHORN	3,725	1,253	197.29%
GUERNSEY	2,139	3,064	-30.19%
R&W/RED HOLSTEIN	1,083	2,567	-57.81%
AYRSHIRE	719	4,703	-84.71%
HOLSTEIN-RED CARRIER	290	0	0.00%
OTHER DAIRY	0	0	0.00%
TOTAL	<u>699,432</u>	<u>637,755</u>	<u>9.67%</u>

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

BREED	2000	1999	%+/-
HOLSTEIN	7,271,444	7,521,171	-3.32%
JERSEY	437,263	421,199	3.81%
BROWN SWISS	320,631	308,914	3.79%
HOLSTEIN-RED CARRIER	69,632	97,382	-28.50%
R&W/RED HOLSTEIN	42,271	28,066	50.61%
AYRSHIRE	21,058	26,249	-19.78%
GUERNSEY	13,449	16,412	-18.05%
MILKING SHORTHORN	1,880	1,292	45.51%
TOTAL	<u>8,177,628</u>	<u>8,420,685</u>	<u>-2.89%</u>

DAIRY SEMEN EXPORT SALES (2)  
UNITS OF SEMEN

	<u>2000</u>	<u>1999</u>	<u>%+/-</u>
WORLD TOTAL	<u>8,271,084</u>	<u>8,346,615</u>	<u>-0.90%</u>

DAIRY SEMEN EXPORT SALES (2)  
DOLLAR VALUE

	<u>2000</u>	<u>1999</u>	<u>%+/-</u>
WORLD TOTAL	<u>\$48,867,736</u>	<u>\$50,834,078</u>	<u>-3.87%</u>

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

BREED	2000	1999	%+/-
ANGUS	702,382	618,405	13.58%
RED ANGUS	77,012	67,556	14.00%
SIMMENTAL	72,404	70,395	2.85%
POLLED HEREFORD	39,041	46,778	-16.54%
CHAROLAIS	18,301	15,898	15.12%
BRAHMAN	14,886	20,589	-27.70%
LIMOUSIN	14,124	14,144	-0.14%
GELBVIEWH	10,988	11,181	-1.73%
PIEDMONTESE	9,165	1,303	603.38%
BRANGUS (RED)	4,619	1,247	270.41%
MAINE ANJOU	4,329	4,845	-10.65%
HEREFORD	4,117	3,914	5.19%
SHORTHORN	3,592	1,902	88.85%
BEEFMASTER	2,656	695	282.16%
GYR	1,460	1,510	-3.31%
CHIANINA	1,416	1,930	-26.63%
OTHER BEEF (a)	14,699	16,090	-8.65%
TOTAL	<u>995,191</u>	<u>898,382</u>	<u>10.78%</u>

(a) Other Beef includes: Blonde D'Aquit., Beefalo, Belgian Blue, Braford, Brahmmental-Simbrah, Brahmousin, Brangus, Braunvieh, ChiAngus, Chi-Maine, Devon, Dexter, Dutch Belted, Galloway, Indu-Brazil, Longhorn, Marchigiana, Murray Grey, Nellore, Normande, Pinzgauer, Red Brahman, Romagnola, Salers, Santa Gertrudis, Scotch Highland, Scotch Shorthorn, Senapoi, South Devon, Tarentaise, Wagyu, White Park and Misc. Beef.

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

BREED	2000	1999	%+/-
RED ANGUS	357,418	307,149	16.37%
ANGUS	194,684	238,911	-18.51%
POLLED HEREFORD	54,232	67,306	-19.42%
SIMMENTAL	43,621	51,564	-15.40%
BRAHMAN	26,082	25,297	3.10%
CHAROLAIS	14,432	15,638	-7.71%
LIMOUSIN	13,205	20,443	-35.41%
GELBVIEWH	6,591	6,099	8.07%
BELGIAN BLUE	3,325	6,200	-46.37%
BRANGUS (RED)	3,270	9,080	-63.99%
BRAHMAN (RED)	2,333	5,270	-55.73%
GYR	2,201	3,685	-40.27%
SENAPOLE	1,325	1,320	0.38%
SHORTHORN	1,130	85	1229.41%
OTHER BEEF (b)	9,869	13,363	-26.15%
TOTAL	733,718	771,410	-4.89%

(b) Other Beef includes: Blonde D'Aquit., Beefmaster, Braford, Brahmental-Simbrah, Brahmousin, Brangus, Braunvieh, ChiAngus, Chianina, Chi-Maine, Dexter, Galloway, Herford, Indu-Brazil, Longhorn, Maine-Anjou, Marchigiana, Murray Grey, Nellore, Piedmont, Pinzgauer, Romagnola, Salers, Santa Gertrudis, Senapol, Shorthorn, Shorthorn (Scotch), Tarentaise, Wagyu and Misc. Beef.

CUSTOM FROZEN BEEF SEMEN (1)  
UNITS OF SEMEN

BREED	2000	1999	%+/-
ANGUS	810,050	707,339	14.52%
RED ANGUS	165,647	265,167	-37.53%
LIMOUSIN	108,692	107,755	0.87%
MAINE ANJOU	108,556	125,386	-13.42%
BRANGUS	106,233	69,212	53.49%
WAGYU	101,760	118,878	-14.40%
POLLED HEREFORD	72,705	91,847	-20.84%
SIMMENTAL	68,247	89,634	-23.86%
CHAROLAIS	65,387	73,326	-10.83%
BRAHMAN	64,496	37,422	72.35%
BEEFMASTER	61,665	71,759	-14.07%
HEREFORD	53,913	58,670	-8.11%
GELBVIEWH	52,168	36,664	42.29%
BRAUNVIEWH	43,186	20,197	113.82%
SENAPOL	43,031	40,241	6.93%
RED BRANGUS	40,439	24,032	68.27%
CHI-MAINE	33,627	30,531	10.14%
SHORTHORN (SCOTCH)	31,573	43,816	-27.94%
PIEDMONT	21,033	1,062	1880.51%
CHI-ANGUS	17,117	15,078	13.52%
BRAHMENTAL/SIMBRAH	16,344	6,436	153.95%
TEXAS LONGHORN	12,604	12,913	-2.39%
SANTA GERTRUDIS	12,407	13,638	-9.03%
SALERS	10,305	18,081	-43.01%
SOUTH DEVON	8,016	10,741	-25.37%
SHORTHORN	6,997	10,390	-32.66%
DUTCH BELTED	5,189	2,261	129.50%
CHIANINA	4,043	8,714	-53.60%
SCOTCH HIGHLAND	4,062	1,795	126.30%
MARCHIGIANA	3,960	0	0.00%
TARANTAISE	3,443	4,044	-14.86%
OTHER BEEF (c)	147,892	187,341	-21.06%
TOTAL	<u>2,304,787</u>	<u>2,304,370</u>	<u>0.02%</u>

(c) Other Beef includes: Amerifax, Ankina, Barzona, Blonde D'Aquit., Beefalo, Beef Friesian, Belgian Blue, Belted Galloway, Braford, Brahman (Red), Brahmousin, Braier, British White, Buelingo, Corriente, Dexter, Galloway, Murray Grey, Nellore, Normande, Pinzgauer, Red Poll, Romagnola, White Park, Yak and Misc. Beef.

BEEF SEMEN EXPORT SALES (2)  
UNITS OF SEMEN

	<u>2000</u>	<u>1999</u>	<u>%+/-</u>
WORLD TOTAL	<u>739,562</u>	<u>771,059</u>	<u>-4.08%</u>

BEEF SEMEN EXPORT SALES (2)  
DOLLAR VALUE

	<u>2000</u>	<u>1999</u>	<u>%+/-</u>
WORLD TOTAL	<u>\$2,186,913</u>	<u>\$2,066,726</u>	<u>5.82%</u>

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

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