

DOMESTIC DAIRY SEMEN SALES (1)

UNITS OF SEMEN

BREED	1991	1990	%+/-
HOLSTEIN	11,739,026	12,276,057	-4.37%
JERSEY	581,736	610,154	-4.66%
GUERNSEY	147,627	176,525	-16.37%
BROWN SWISS	111,150	139,104	-20.10%
AYRSHIRE	44,093	51,866	-14.99%
MILKING SHORTHORN	14,032	18,086	-22.42%
OTHER DAIRY	261	211	23.70%
TOTAL	<u>12,637,925</u>	<u>13,272,003</u>	<u>-4.78%</u>

CUSTOM FROZEN DAIRY SEMEN (1)

UNITS OF SEMEN

BREED	1991	1990	%+/-
HOLSTEIN	646,746	683,054	-5.32%
BROWN SWISS	57,408	127,504	-54.98%
JERSEY	24,817	36,018	-31.10%
GUERNSEY	3,528	3,416	3.28%
AYRSHIRE	1,708	9,327	-81.69%
MILKING SHORTHORN	1,675	4,131	-59.45%
OTHER DAIRY	435	54	705.56%
TOTAL	<u>736,317</u>	<u>863,504</u>	<u>-14.73%</u>

DAIRY SEMEN EXPORT SALES (1)

UNITS OF SEMEN

BREED	1991	1990	%+/-
HOLSTEIN	4,213,536	4,191,516	0.53%
BROWN SWISS	243,362	273,552	-11.04%
JERSEY	186,779	152,969	22.10%
GUERNSEY	10,035	8,270	21.34%
OTHER DAIRY	6,847	7,578	-9.65%
TOTAL	<u>4,660,559</u>	<u>4,633,885</u>	<u>0.58%</u>

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DAIRY SEMEN EXPORT SALES (2)

UNITS OF SEMEN

REGION	1991	1990	%+/-
EUROPEAN COMMUNITY	1,263,858	1,745,396	-27.59%
SOUTH AMERICA	1,179,288	801,423	47.15%
NORTH AMERICA	789,200	728,181	8.38%
ASIA	553,625	322,009	71.93%
OCEANIA	274,689	178,777	53.65%
OTHER WESTERN EUROPE	190,983	212,709	-10.21%
MIDDLE EAST	136,637	296,739	-53.95%
AFRICA	130,751	121,242	7.84%
CENTRAL AMERICA	104,252	112,047	-6.96%
EASTERN EUROPE	50,104	124,968	-59.91%
CARRIBEAN	15,950	16,674	-4.34%
TOTAL	4,689,337	4,660,165	0.63%

DAIRY SEMEN EXPORT SALES (2)

DOLLAR VALUE

REGION	1991	1990	%+/-
EUROPEAN COMMUNITY	\$19,084,913	\$25,878,416	-26.25%
NORTH AMERICA	5,268,736	4,848,921	8.66%
SOUTH AMERICA	4,579,416	3,211,055	42.61%
ASIA	3,470,445	3,023,375	14.79%
OCEANIA	2,072,988	1,323,716	56.60%
OTHER WESTERN EUROPE	2,071,364	2,515,751	-17.66%
AFRICA	1,402,721	1,513,123	-7.30%
MIDDLE EAST	1,226,582	2,276,084	-46.11%
EASTERN EUROPE	511,629	1,407,790	-63.66%
CENTRAL AMERICA	417,955	411,143	1.66%
CARRIBEAN	53,795	70,369	-23.55%
TOTAL	\$40,160,544	\$46,479,743	-13.60%

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DOMESTIC BEEF SEMEN SALES (1)

UNITS OF SEMEN

BREED	1991	1990	%+/-
ANGUS	501,025	410,026	22.19%
SIMMENTAL	144,550	127,510	13.36%
POLLED HEREFORD	108,518	98,656	10.00%
BRAHMAN	56,716	47,083	20.46%
RED ANGUS	33,185	26,580	24.85%
LIMOUSIN	30,909	28,430	8.72%
CHAROLAIS	25,567	25,607	-0.16%
GELBVIEH	23,637	27,606	-14.38%
HEREFORD	16,850	14,580	15.57%
CHIANINA	15,377	10,445	47.22%
MAINE ANJOU	11,970	14,075	-14.96%
SALERS	11,108	12,993	-14.51%
SHORTHORN	7,219	10,151	-28.88%
BRANGUS	5,675	4,038	40.54%
PIEDMONT	5,096	5,248	-2.90%
BELGIAN BLUE	3,986	2,587	54.08%
BEEFMASTER	2,981	3,275	-8.98%
LONGHORN	2,768	2,254	22.80%
CHI-MAINE	2,610	3,397	-23.17%
TARANTAISE	1,556	2,135	-27.12%
OTHER BEEF (a)	5,723	4,259	34.37%
TOTAL	1,017,026	880,935	15.45%

BEEF SEMEN EXPORT SALES (1)

UNITS OF SEMEN

BREED	1991	1990	%+/-
BRAHMAN	74,028	37,707	96.32%
SIMMENTAL	67,772	52,690	28.62%
ANGUS	49,480	66,601	-25.71%
RED ANGUS	30,686	22,343	37.34%
POLLED HEREFORD	26,758	36,692	-27.07%
LIMOUSIN	17,414	11,334	53.64%
CHAROLAIS	12,331	9,875	24.87%
BRAUNVIEH	8,427	10,944	-23.00%
PIEDMONT	5,539	4,198	31.94%
GELBVIEH	2,474	3,678	-32.74%
BRANGUS	1,773	971	82.60%
HEREFORD	1,526	2,527	-39.61%
OTHER BEEF (b)	6,487	8,911	-27.20%
TOTAL	304,695	268,471	13.49%

CUSTOM FROZEN BEEF SEMEN (1)

UNITS OF SEMEN

BREED	1991	1990	%+/-
ANGUS	232,685	230,979	0.74%
SIMMENTAL	164,969	150,936	9.30%
LIMOUSIN	144,567	80,537	79.50%
HEREFORD	85,363	83,049	2.79%
CHAROLAIS	79,266	68,907	15.03%
MAINE ANJOU	65,189	49,495	31.71%
BRANGUS	62,416	89,467	-30.24%
BEEFMASTER	62,158	71,969	-13.63%
GELBVIEH	59,299	61,167	-3.05%
POLLED HEREFORD	49,654	53,795	-7.70%
SALERS	44,490	30,845	44.24%
BRAHMAN	42,310	33,160	27.59%
RED ANGUS	38,214	35,739	6.93%
CHIANINA	36,723	32,704	12.29%
SHORTHORN	24,644	17,579	40.19%
BRAHMENTAL-SIMBRAH	10,129	18,497	-45.24%
BELGIAN BLUE	9,294	8,186	13.54%
SHORTHORN (SCOTCH)	9,044	7,964	13.56%
LONGHORN	8,772	10,943	-19.84%
SOUTH DEVON	8,366	2,682	211.93%
CHI-MAINE	7,895	0	
RED BRANGUS	6,773	13,449	-49.64%
WAGYU	6,770	*	
SANTA GERTRUDIS	6,629	19,119	-65.33%
OTHER BEEF (c)	54,905	86,028	-36.18%
TOTAL	<u>1,320,524</u>	<u>1,257,196</u>	<u>5.04%</u>

*Total included in Other Beef for 1990.

(a) Other Beef includes: Ankina, Blonde D'Auit., Beef Friesian, Red Brahman, Brahmental-Simbrah, Red Brangus, Braunvieh, Devon, South Devon, Guzaret, Gyr, Hays Converter, Indu-Brazil, Marchigiana, MRI, Murray Grey, Nellore, Norwegian Red, Pinzgauer, Romagnola Red Poll, Santa Gertrudis, Senapol, Tabapua, Crossbreed and Misc. Beef.

(b) Other Beef includes: Beefmaster, Belgian Blue, Brahmental-Simbrah, Red Brahman, Red Brangus, Chianina, Chi-Maine, Devon, South Devon, Dutch Belted, Guzaret, Gyr, Indu-Brazil Longhorn, Maine-Anjou, Nellore, Red Poll, Romagnola, Salers, Santa Gertrudis, Shorthorn, Tabapua and Tarantaise.

(c) Other Beef includes: Amerifax, Barzona, Blonde D'Aquit., Beefalo, Beef Friesian, Braford, Red Brahman, Brahmousin, Braler, Braunvieh, British White, ChiAngus, Corriente, Devon, Dexter, Dutch Belted, Galloway, Gelbray, Marchigiana, Nellore, Normande, Piedmont, Pinzgauer, Romagnola, Red Poll, Senapol, Tarantaise, White Park, Yak, Crossbreed and Misc. Beef.

BEEF SEMEN EXPORT SALES (2)

UNITS OF SEMEN

REGION	1991	1990	%+/-
SOUTH AMERICA	172,262	157,735	9.21%
NORTH AMERICA	49,055	64,383	-23.81%
ASIA	46,185	(487)	-9583.57%
CENTRAL AMERICA	28,178	27,862	1.13%
OCEANIA	11,008	14,411	-23.61%
AFRICA	2,784	3,834	-27.39%
OTHER WESTERN EUROPE	2,486	3,525	-29.48%
EASTERN EUROPE	1,258	1,340	-6.12%
EUROPEAN COMMUNITY	762	2,590	-70.58%
MIDDLE EAST	415	110	277.27%
CARRIBEAN	170	1,078	-84.23%
TOTAL	314,563	276,381	13.81%

BEEF SEMEN EXPORT SALES (2)

DOLLAR VALUE

REGION	1991	1990	%+/-
SOUTH AMERICA	\$532,860	\$397,407	34.08%
NORTH AMERICA	264,049	369,189	-28.48%
ASIA	185,004	13,520	1268.37%
CENTRAL AMERICA	116,178	102,316	13.55%
OCEANIA	99,897	146,088	-31.62%
AFRICA	30,501	40,437	-24.57%
OTHER WESTERN EUROPE	17,534	64,383	-72.77%
EUROPEAN COMMUNITY	11,850	21,792	-45.62%
EASTERN EUROPE	10,017	14,159	-29.25%
MIDDLE EAST	5,368	560	858.57%
CARIBBEAN	846	4,008	-78.89%
TOTAL	\$1,274,104	\$1,173,859	8.54%

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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