

Annual Report of the AETA Statistics Committee for the Calendar Year 2008

Regional Map



NE = MD, ME, NY, OH, PA, VT, CT

SE = GA, KY, MS, NC, TN, VA

NC = IL, IA, IN, MI, MN, NE, WI

SC = CO, KS, LA, MO, OK, TX

NW = ID, UT, MT, OR, WA, WY

SW = CA

ETB Data

States with no ETBs reporting data:

Again, as in 2007, white states (16 total) have no ETBs reporting data: Alaska, Alabama, Arizona, Arkansas, Delaware, Florida, Hawaii, North Dakota, South Dakota, New Jersey, New Hampshire, Nevada, New Mexico, Rhode Island, South Carolina, and West Virginia. This does not infer that embryo transfer is not performed in those states. It simply means that ETBs reporting data to the committee are not headquartered in those states.

ETBs Reporting

The number of ETBs reporting for 2008 was down by 11. The number of certified companies was the same for 2008 as 2007. However, only two non-certified companies reported data in 2008 as compared to 13 in 2007. One of those two does equine ET only.

Region	# ETBs 2005	# ETBs 2006	# ETBs 2007	# ETBs 2008
Northeast	28	29	27	25
Southeast	18	18	17	17
North Central	39	37	45	40
South Central	30	24	26	23
Northwest	15	14	14	14
Southwest	4	4	5	4
Totals	134	126	134	123

Dairy Collection Data

Dairy single egg collections and embryo production remained constant for 2008.

2008 Dairy Single Ova Collection Data by Region

Region	Non Stim Dairy Donors Collected	EMB Collected From Non Stimulated Dairy Donors	Embryos Per Collection Dairy
Northeast	122	76	0.62
Southeast	2	2	1.00
NorthCentral	117	64	0.55
Southcentral	4	3	0.75
NorthWest	11	11	1.00
Southwest	7	2	0.29
Totals	263	158	0.60

2007 Dairy Single Ova Collection Data by Region

Region	Non Stim Dairy Donors Collected	EMB Collected From Non Stimulated Dairy Donors	Embryos Per Collection Dairy
Northeast	122	54	0.44
Southeast	6	2	0.33
NorthCentral	139	77	0.55
Southcentral	9	4	0.44
NorthWest	9	6	0.67
Southwest	8	1	0.13
Totals	293	144	0.49

Dairy Stimulated Collections

This is the first year that collection data was separated into un-sorted and sex sorted recoveries. We will report combined data first, then un-sorted (traditional semen), and finally sex sorted data. The dairy industry appears to be on solid ground and gaining substantially for the second consecutive year based on reported data.

The number of dairy stimulated collections is up by almost 2000 from 2007.

Dairy combined data Traditional + Sorted 2008

Region	Total Dairy Donors Stimulated & Collected	% of Total
Northeast	7311	33.58
Southeast	2035	9.34
N central	9610	44.14
S central	537	2.47
Northwest	802	3.68
Southwest	1474	6.77
Totals	21769	

Dairy combined data Traditional + Sorted 2007

Region	Dairy Donors Stimulated & Collected
Northeast	6144
Southeast	1703
NorthCentral	9509
Southcentral	483
NorthWest	746
Southwest	1196
Totals	19781

Dairy combined data Traditional + Sorted 2006

Region	Dairy Donors Stimulated & Collected
Northeast	5473
Southeast	1149
Northcentral	7777
Southcentral	437
NorthWest	724
Southwest	1010
Totals	16570

Dairy stimulated collections Traditional semen only 2008

Region	Dairy Donors Collected Traditional Semen	% of Total
Northeast	6939	32.65
Southeast	1981	9.32
N central	9545	44.91
S central	531	2.49
Northwest	782	3.68
Southwest	1474	6.94
Totals	21252	97.63

Dairy stimulated collections sorted semen only 2008

Region	Dairy Donors Collected Sorted Sperm	% of Total
Northeast	372	71.95
Southeast	54	10.44
N central	65	12.57
S central	6	1.16
Northwest	20	3.87
Southwest	0	0
Totals	517	2.38

It appears that sex sorted sperm hasn't penetrated the ET to any appreciable degree. Slightly over 2% of the total collections were performed on donors inseminated with sorted sperm. It's possible that the reported number is low due to several reasons:

1. The IETS ET forms do not require documentation of sorted sperm so practitioners may have a difficult time retroactively collecting the data. Maybe after this year they will be prepared and will tabulate the data or change their collection forms to document if sorted sperm was used for each collection.
2. Owners do not always report to the practitioner when sorted sperm was used on a donor.

3. Sometimes sorted and traditional sperm is combined to inseminate a donor for the same collection. In that case, the committee recommends classifying that collection as traditional and not sorted.

Dairy transferrable embryos from stimulated donors combined (sorted + un-sorted) 2008

Region	Total Viable EMB Collected From Stim Dairy Donors
Northeast	37995
Southeast	12908
North central	57536
South central	2910
Northwest	4669
Southwest	7038
Totals	123056

Dairy transferrable embryos from stimulated donors combined (sorted + un-sorted) 2007

Region	Trans EMB Collected From Stim Dairy Donors
Northeast	30824
Southeast	10462
NorthCentral	54625
Southcentral	2773
NorthWest	4264
Southwest	5300
Totals	108248

The number of transferrable (viable) dairy embryos recovered in 2008 was up by almost 15,000 as compared to the previous year.

Dairy transferrable embryos tradition (un-sorted) semen 2008

Region	Viable EMB Collected from Stim Dairy Donors Traditional
Northeast	36530
Southeast	12736
North central	57180
South central	2888
Northwest	4586
Southwest	7038
Totals	120958

Dairy transferrable embryos sorted semen 2008

Region	Viable EMB Collected from Stim Dairy Donors Sorted
Northeast	1465
Southeast	172
North central	356
South central	22
Northwest	83
Southwest	0
Totals	2098

Only 1.73 % of the total embryos collected in 2008 were generated with sex sorted sperm.

Mean number of viable embryos (un-sorted plus sorted) 2008

Region	Mean # of Viable Embs Recovered from Stim Dairy Donors
Northeast	5.20
Southeast	6.34
North central	5.99
South central	5.42
Northwest	5.82
Southwest	4.77
Totals	5.65

Mean number of viable embryos (un-sorted plus sorted) 2007

Region	Mean # of Viable Embs Recovered from Stim Dairy Donors
Northeast	5.02
Southeast	6.14
NorthCentral	5.74
Southcentral	5.74
NorthWest	5.72
Southwest	4.43
Totals	5.47

The mean number of viable embryos per collection in dairy cattle tends to remain at a constant level.

Mean number of viable embryos un-sorted (traditional) 2008

Region	Mean # of Viable EMB Collected from Stim Dairy Donors Traditional
Northeast	5.26
Southeast	6.43
North central	5.99
South central	5.44
Northwest	5.86
Southwest	4.77
Totals	5.69

Mean number of viable embryos (sorted) 2008

Region	Mean # of Viable EMB Collected from Stim Dairy Donors Sorted
Northeast	3.94
Southeast	3.19
North central	5.48
South central	3.67
Northwest	4.15
Southwest	4.77
Totals	4.06

The mean number of viable embryos per collection with sorted sperm is only about 1.5 embryos less than donors inseminated with traditional semen. The north central region's ETBs reported only 0.5 fewer embryos when using sorted sperm.

Beef Collection Data

Non-stimulated collections 2008

Region	Non stim beef donors flushed	EMB collected from non- stim beef donors
Northeast	0	0
Southeast	3	2
North central	8	1
South central	2	0
Northwest	10	9
Southwest	0	0
Totals	23	12

The main bit of information here is that there's not many single egg collections performed on beef cattle. As in dairy collections there are roughly 0.5 viable embryos per collection.

Beef donors stimulated and collected (traditional + sorted) 2008

Region	Total Beef Donors Stimulated & Collected	% of Total
Northeast	2029	6.64
Southeast	5118	16.49
N central	10394	33.49
S central	10839	34.92
Northwest	2453	7.90
Southwest	200	0.64
Totals	31033	

Beef donors stimulated and collected (traditional + sorted) 2007

Region	Beef Donors Stimulated & Collected
Northeast	1746
Southeast	6429
North Central	9852
South Central	12501
Northwest	3674
Southwest	241
Totals	34299

Beef donors stimulated and collected (traditional + sorted) 2006

Region	Beef Donors Stimulated & Collected
Northeast	1840
Southeast	7605
North Central	10818
South Central	11969
Northwest	2850
Southwest	241
Totals	35323

The number of beef donors stimulated and collected has dropped now for the third consecutive year with the biggest drop coming this year (about 3000 collections).

Beef donors stimulated and collected Traditional only 2008

Region	Beef Donors Stim and Collected Traditional
Northeast	2027
Southeast	5091
N central	9909
S central	10828
Northwest	2444
Southwest	200
Totals	30499

Beef donors stimulated and collected Sorted only 2008

Region	Beef Donors Stim and Collected Sorted
Northeast	2
Southeast	27
N central	485
S central	11
Northwest	9
Southwest	0
Totals	534 (1.75% of total beef collections)

The number of beef donor collections reported with donors inseminated with sex sorted semen is likely lower than what was actually done. 24 ETBs did not have the column for sex sorted collections (beef donors) printed on their survey.

Viable Embryos collected from beef donors

Number of viable embryos collected from stimulated beef donors (combined data) 2008

Region	Total # of viable embs collected from stim beef donors
Northeast	13117
Southeast	35749
N central	67179
S central	72802
Northwest	15611
Southwest	1487
Totals	205945

Number of viable embryos collected from stimulated beef donors (combined data) 2007

Region	Total # of viable embs collected from stim beef donors
Northeast	10147
Southeast	42801
North Central	63009
South Central	80469
Northwest	26029
Southwest	1973
Totals	224428

The number of embryos produced from stimulated beef donors is down by about 18,000.

Number of viable embryos collected from stimulated beef donors (traditional semen) 2008

Region	# Viable EMB from Stim Beef Donors Traditional
Northeast	13110
Southeast	35671
N central	64358
S central	72740
Northwest	2691
Southwest	1487
Totals	190057

Number of viable embryos collected from stimulated beef donors (sorted semen) 2008

	Viable EMB from Stim Beef Donors Sorted	% of Total
Northeast	7	
Southeast	78	
N central	2821	
S central	11	
Northwest	77	
Southwest	0	
Totals	2994	1.45

Mean # of viable embryos / collection - beef donors combined traditional + sorted 2008

Region	Mean viable EMB collected from stim beef donors combined traditional + sorted
Northeast	6.46
Southeast	6.98
N central	6.46
S central	6.72
Northwest	6.36
Southwest	7.44
Totals	6.64

Mean # of viable embryos / collection - beef donors combined traditional + sorted 2007

Region	Mean # of viable embryos collected from stimulated beef donors
Northeast	5.81
Southeast	6.65
North Central	6.40
South Central	6.44
Northwest	7.08
Southwest	8.19
Totals	6.52

Mean # of viable embryos / collection - beef donors traditional semen 2008

Region	Mean viable EMB collected from stim beef donors traditional
Northeast	6.47
Southeast	7.01
N central	6.49
S central	6.72
Northwest	6.36
Southwest	7.44
Totals	6.65

Mean # of viable embryos / collection - beef donors sorted semen 2008

Region	Mean viable EMB collected from stim beef donors sorted
Northeast	3.50
Southeast	2.89
N central	5.82
S central	5.64
Northwest	8.56
Southwest	0.00
Totals	5.70

This data indicates only a one embryo per collection difference between flushes where donors were inseminated with traditional vs. sex sorted semen.

Total Viable Embryos Collected Beef & Dairy Combined

2006	2007	2008
319,984	332,846	329,171

The total number of viable embryos recovered from stimulated and non-stimulated beef and dairy donors was down by 3675.

2008 Fresh Transfers Dairy & Beef

Region	Fresh Transfers Dairy	Fresh Transfers Beef	Total Fresh Transfers Beef & Dairy
Northeast	17375	3520	20985
Southeast	4264	13267	17805
N central	20556	9575	30479
S central	1529	27744	29426
Northwest	2230	4111	6341
Southwest	2181	426	2607
Totals	48135	58643	107643
% of Total EMB Collected	39.07%	28.47%	32.70%

2007 Fresh Transfers Dairy & Beef

Region	Fresh Transfers Dairy	Fresh Transfers Beef	Total Fresh Transfers Beef & Dairy
Northeast	13840	3103	16955
Southeast	4707	14742	19571
North central	19390	10948	30523
South central	1373	30184	31844
Northwest	2244	6373	8623
Southwest	2390	317	2707
Totals	43944	65667	110223

Dairy fresh transfers are up and beef are down.

Embryos Frozen

Dairy embryos frozen 2008

Region	EMB frozen glycerol dairy	Emb frozen DT dairy	EMB vitrified dairy	Total emb frozen dairy
Northeast	719	19996	0	20592
Southeast	185	8335	1	8521
N central	3616	33337	0	36953
S central	0	1298	0	1298
Northwest	69	2339	0	2408
Southwest	0	4814	0	4814
Totals	4589	70119	1	74709
% of Total Frozen	6.14%	93.86%		

Total emb frozen dairy 2007 = 63605

About 11,000 more dairy embryos were frozen in 2008 than in 2007

Dairy Embryos Frozen in Glycerol

2005	2006	2007
8540 (16.7% of total frozen)	7258 (13.79% of total frozen)	5682 (8.96% of total frozen)

There has been a steady decline in the percentage of dairy embryos frozen in glycerol since 2005.

Beef embryos frozen 2008

Region	Emb frozen glycerol beef	Emb frozen DT beef	Emb vitrified beef	Tot emb frozen beef
Northeast	0	9592	0	9592
Southeast	301	20718	0	21019
N central	97	57359	0	57456
S central	608	43810	0	44418
Northwest	367	11206	0	11573
Southwest	0	1061	0	1061
Totals	1373	143746	0	145119
% of Total Frozen	0.95%	99.05%		

Less than 1% of the beef embryos that is frozen use glycerol as a cryoprotectant.

Beef Embryos Frozen DT 2006, 07, 08

Region	2006 Data	2007 Data	2008 Data
Northeast	7395	6932	9592
Southeast	33110	24018	20718
North central	57139	52263	57359
South central	41877	45889	43810
Northwest	15223	18823	11206
Southwest	0	0	1061
Totals	154744	149507	143746

For the second consecutive year the number of beef embryos frozen has declined by over 5000.

Total Embryos Frozen – Beef and Dairy Combined

2006	2007	2008
208,380 (65% of total embs collected)	216,697(65% of total embs collected)	219,705 (66.74 % of total embs coll

Frozen embryos transferred

Dairy frozen transfers 2008

Region	EMB transferred glycerol dairy	EMB transferred DT dairy	Dairy Tot frozen transfers: Gly + DT
Northeast	495	9857	10352
Southeast	80	2589	2669
N Central	1388	18032	1554
S central	27	3470	3497
NorthWest	129	1526	1655
Southwest	13	1158	1171
Totals	2132	36,632	38,764
	% of transfers	% of transfers	
	5.50%	94.5%	

Dairy frozen transfers 2007

	EMB transferred glycerol dairy	EMB transferred DT dairy	Dairy Tot frozen transfers: Gly + DT
Totals	4045	31,265	35,310
	% of transfers	% of transfers	
	11.46%	88.54%	

DT frozen transfers are gaining ground in the dairy industry in both numbers and percentage of embryos transferred.

Beef frozen transfers 2008

Region	EMB transferred glycerol beef	EMB transferred DT beef	Beef embs thawed
Northeast	43	3549	3592
Southeast	334	12249	12583
N Central	443	31710	32153
S central	222	28852	29074
NorthWest	236	7055	7291
Southwest	0	407	407
			0
Totals	1278	83822	85100
	% of transfers	% of transfers	
	1.50%	98.50%	

Beef frozen transfers 2007

Region	EMB thawed glycerol beef	EMB thawed DT beef	Beef embs thawed
Northeast	29	2865	2894
Southeast	409	12698	13107
N Central	620	34084	34704
S Central	780	36489	37269
NorthWest	689	12480	13169
Southwest	57	1262	1319
			0
Totals	2584	99878	102462
% of frozen transfers	2.52%	97.48%	

The number of beef frozen transfers is down by 17,000. The south central region has taken the biggest hit – a decline of about 8,000 transfers. Also, the northwest has dropped by 6000 transfers.

Combined Gly and DT dairy and beef frozen transfers 2008

Region	Total # frozen emb transferred beef & dairy
Northeast	10395
Southeast	3003
N Central	1997
S central	3719
NorthWest	1891
Southwest	1171
	0
Totals	123864

Combined Gly and DT dairy and beef frozen transfers 2007

Region	Total frozen emb transferred beef & dairy
Northeast	10025
Southeast	2372
N Central	20171
S Central	1936
NorthWest	2145
Southwest	1245
	0
Totals	137772

Beef frozen transfers declined by 10% in the past year, but dairy has increased (3400) with a combined net drop of 14,000 transfers (10.16%).

Manipulated Embryos

Biopsied Embryos 2008

Region	Fresh biopsied transferred dairy	EMB biopsied & frozen dairy	Fresh biopsied transferred beef	EMB biopsied & frozen beef
Northeast	90	0	0	0
Southeast	18	0	0	0
N Central	28	21	45	4
S Central	9	45	0	0
Northwest	0	0	0	0
Southwest	0	0	0	0
Totals	145	66	45	4

Biopsied Embryos 2007

Region	Fresh biopsied transferred dairy	EMB biopsied & frozen dairy	Fresh biopsied transferred beef	EMB biopsied & frozen beef
Northeast	12	0	0	0
Southeast	0	0	0	0
North Central	58	21	0	0
South Central	1	23	0	0
Northwest	0	0	0	0
Southwest	0	0	0	0
Totals	71	44	0	0

Although numbers of biopsied embryos are very low there has been an increase in biopsied embryos. Three ETBs in the north central region reported biopsying beef embryos. Presumably, the biopsies were done to determine sex of the embryo, but DNA analysis could be a forthcoming reason to biopsy embryos in the near future. This category should be watched carefully in coming years.

Demi Embryos

Demi Embryos 2008

Region	Fresh demis transferred dairy	DEMI emb frozen dairy	Fresh demis transferred beef	DEMI emb frozen beef	DEMI emb thawed
Northeast	0	0	0	0	0
Southeast	24	0	232	0	0
N Central	259	14	16	0	0
S Central	18	0	126	0	0
Northwest	0	0	0	0	0
Southwest	0	0	0	0	0
Totals	301	14	374	0	0

Demi Embryos 2007

Region	Fresh demis transferred dairy	DEMI emb frozen dairy	Fresh demis transferred beef	DEMI emb frozen beef	DEMI emb thawed
Northeast	0	0	0	0	0
Southeast	22	0	100	0	0
North Central	102	22	25	0	0
South Central	30	0	256	0	0
Northwest	0	0	6	0	0
Southwest	0	0	0	0	0
Totals	154	22	387	0	0

Dairy Demi embryos transfers have doubled in the last year due to increased activity in the north central region. Only two ETBs from that region reported bisecting embryos, and one ETB transferred all but seven of the 259 demi embryos transferred. Beef numbers remains constant.

Embryos in Storage

Dairy and Beef Embryos Stored in 2008

Region	Frozen emb in storage dairy	Frozen emb in storage beef	Total emb in storage
Northeast	6821	3957	10778
Southeast	3096	8894	11990
N Central	13485	34498	47983
S Central	413	50984	51397
Northwest	741	14885	15626
Southwest	7280	0	7280
Totals	31836	113218	145054

Dairy and Beef Embryos Stored in 2007

Region	Frozen emb in storage dairy	Frozen emb in storage beef	Total embs in storage
Northeast	6705	1944	8649
Southeast	1280	6735	8015
North Central	12477	14815	27292
South Central	1350	45961	47311
Northwest	754	21314	22068
Southwest	7065	0	7065
Totals	29631	90769	120400

Embryos in storage are up by 25,000 with the majority of the increase due to beef.

Embryos Exported

Dairy Exports

Dairy Exports by Country 2008

Argentina	Australia	Austria	Bolivia	Brazil	Canada	China	Czech	
222	116	31	156	15	424	909	55	
Denmark	D. Rep	Ecuador	England	Finland	France	Germany	Holland	
53	333	30	109	93	341	1314	574	
France	Germany	Holland	Iceland	Ireland	Italy	Japan	Mexico	
341	1314	574	5	578	359	1163	118	
Netherlds	Pakistan	Poland	Romania	Spain	Sweden	Switz	Turkey	UK
1411	100	69	110	35	54	79	573	298

Total Dairy Exports 2008 = 9727 (increase of 1168 over 2007).

Dairy Exports by Country 2007

Argentina	Australia	Bolivia	Canada	China	Columb	Czech	Denmark
526	38	96	389	861	61	10	15
D. Rep	England	Finland	France	Germany	Holland	Iran	Ireland
11	191	74	305	939	718	152	369
Italy	Japan	Kazakstn	Mexico	Netherlds	Panama	Poland	Portugal
342	1291	100	347	852	29	87	15
S Africa	Spain	Sweden	Switz	Turkey	Wales	UK	
19	37	64	89	202	26	304	

Total Dairy Exports 2007 = 8559

Dairy Export Trends from 2005 - 2008

Dairy Exports 2005	Dairy Exports 2006	Dairy Exports 2007	Dairy Exports 2008
5859	6834	8559	9727

Dairy exports are up for the 4th consecutive year.

Beef Exports

Beef Exports 2008

Antiqua	Argentina	Australia	Brazil	Canada	Columb	C Rica	DenMk
11	782	1688	959	519	501	14	40
Equador	Eng	Finland	Germany	Ireland	Mex	Mongolia	Panama
165	98	4	186	2	86	26	230
Uruguay	Scotland	Sweden	Thailand	UK			
51	12	20	75	77			

Total Beef Exports 2008 = 5546

Beef Export Trends from 2005 – 2008

Beef Exports 2005	Beef Exports 2006	Beef Exports 2007	Beef Exports 2008
3572	4936	5506	5546

Beef exports remained static from 2007 to 2008.

In Vitro Fertilization

IVF Data 2008

Dairy Collections	Beef Collections	Total Collections	Embryos Frozen	Fresh Transfers	Fresh Transfers per Rec	Total Emb Prod	Viable Embryos per Recovery
1219	3089	4308	1054	12843	2.98	13897	3.23

IVF Data 2007

Dairy Collections	Beef Collections	Total Collections
985	3504	4489

Three ETBs reported performing commercial IVF collections in 2008. Numbers are down from 2007.

Cloning

Only two ETBs reported transferring cloned embryos (total of 70 transfers). Another ETB wished to remain anonymous with their data.

Other Species

Equine 2008

	DONORS TOTAL	EMB REC	TRANSF
	34	21	21
	1	1	1
	12	10	10
	37	24	21
	31	22	18
Totals	115	78	71

This is a very small percent of the embryo transfer performed in the US equine industry.

Caprine 2008

DONORS TOTAL	EMB REC	TRANSF
2	18	6

This is also a gross mis-representation of the goat ET industry.

Ovine 2008

DONORS TOTAL	EMB REC	TRANSF
4	7	7

ETB Data

2008 ETB Data

Region	Cert ETBs	Non Cert	Tot ETBs	Full time ETBs	Part time ETBs	Pro staff	Pro staff/etb	Support staff	Support staff per ETB	House donors	Pr ovi de rec ips
Northeast	25	0	25	14	11	23.70	0.95	15.10	0.60	5	4
Southeast	16	1	17	8	15.17	15.17	0.89	18.95	1.11	10	9
N Central	39	1	40	21	17	45.88	1.15	142.90	3.57	17	10
S Central	23	0	23	16	7	24.90	1.08	41.20	1.79	15	12
Northwest	14	0	14	6	8	9.58	0.68	9.70	0.69	17	7
Southwest	4	0	4	2	2	4.00	1.00	1.40	0.35	3	2
Totals	121	2	123	67	60.17	123.23	1.00	229.25	1.86	67	44

2007 ETB Data

Region	Cert Yes	Cert No	Tot ETB s	Full time ETBs	Part time ETBs	Pro staff	Pro staff / etb	Support staff	Support staff per ETB	House donors	Provi de recips
Northeast	24	3	27	12	15	25.40	0.94	20.00	0.74	5	3
Southeast	17	0	17	9	16.25	16.25	0.96	20.30	1.19	12	8
N Central	40	5	45	16	25	50.88	1.13	148.06	3.29	18	9
S Central	23	3	26	19	7	30.50	1.17	53.60	2.06	17	14
Northwest	13	1	14	5	9	9.45	0.68	16.95	1.21	16	6
Southwest	4	1	5	3	2	4.00	0.80	4.40	0.88	4	3
Totals	121	13	134	64	74.25	136.48	1.02	263.31	1.97	72	43

There were 11 fewer ETBs reporting data in 2008 than in 2007 (all non-certified). There were 13 fewer professionals employed in the industry and 33 fewer support staff.

Total ova, unfertilized, and degenerates

Total Ova Dairy and Beef 2008

Region	Total ova collected from stim dairy donors	Ova per Stimulated Dairy Donor	Total ova collected from stim beef donors	Ova per Stimulated Beef Donor
Northeast	73511	10.2	26331	13.0
Southeast	24558	12.2	65548	12.8
N Central	88829	9.2	127425	12.3
S Central	5884	11.0	141433	13.0
NorthWest	7678	9.5	28355	11.6
Southwest	14906	10.1	3414	17.1
TOTALS	215366	9.9	392506	12.6

Total Ova Dairy + Beef Combined = 607,872

UFOs Dairy 2008

Region	UFO'S collected from stim dairy donors traditional	UFOs collected from stim dairy donors sorted	Total UFOs collected from stim dairy donors	UFOs per Stimulated Dairy Donor
Northeast	23030	821	23851	3.3
Southeast	7908	215	8123	4.0
N Central	26763	238	27001	2.8
S Central	2101	16	2117	3.9
NorthWest	2820	165	2985	3.7
Southwest	6665	0	6665	4.5
TOTALS	69287	1455	70742	3.2
% of total ova collected	32.77%	36.71%	32.85%	

About 1/3 of the total ova collected from stimulated dairy donors are unfertilized. Although numbers of collections where donors are inseminated with sorted sperm are much lower than collections where donors were inseminated with traditional un-sorted semen, the percent of UFOs are only 4% higher when using sorted sperm. Provided the membership wants this information in the future this will be a good template to watch trends as the numbers of collections with sorted semen increase, thus becoming more meaningful.

Degenerates Dairy 2008

Region	Degens collected from stim dairy donors traditional	Degens collected from stim dairy donors sorted	Total degens collected from stim dairy donors	Degens per stim dairy donor
Northeast	11491.00	241.00	11732.00	1.6
Southeast	3397.00	48.00	3445.00	1.7
N Central	10038.00	88.00	10126.00	1.1

S Central	797.00	21.00	818.00	1.5
NorthWest	1402.00	11.00	1413.00	1.8
Southwest	1203.00	0.00	1203.00	0.8
TOTALS	28328.00	409.00	28737.00	1.3
% of Total ova collected	13.40%	10.32%	13.34%	

UFOs Beef 2008

Region	UFO'S collected from stim beef donors Traditional	UFOs collected from stim beef donors sorted	Total UFOs collected from stim beef donors	UFOs per Stimulated Beef Donor
Northeast	10315	15	10330	5.1
Southeast	18476	171	18647	3.6
N Central	36427	2567	38994	3.8
S Central	42570	63	42633	3.9
Northwest	6436	41	6477	2.6
Southwest	1193	0	1193	6.0
TOTALS	115417	2857	118274	3.8
% of Total	29.94%	40.70%	30.13%	

Degenerates Beef 2008

Region	Degens collected from stim beef donors traditional	Degens collected from stim beef donors sorted	Total degens collected from stim beef donors	Degens per stim beef donor
Northeast	3142	0	3142	1.5
Southeast	9203	35	9238	1.8
N Central	21054	1071	22125	2.1
S Central	25656	11	25667	2.4
NorthWest	6253	14	6267	2.6
Southwest	734	0	734	3.7
TOTALS	66042	1131	67173	2.2
% of Total	17.13%	16.11%	17.11%	

Basic Data Dairy and Beef Combined

Percentages of UFOs, Degenerates, and Viable Embryos 2008 (Traditional)

Donors	%UFOs	%Degenerates	%Viable
Dairy	32.77	13.40	53.83
Beef	29.94	17.13	52.93

Percentages of UFOs, Degenerates, and Viable Embryos 2008 (Sorted)

Donors	%UFOs	%Degenerates	%Viable
Dairy	36.71	10.32	52.97
Beef	40.7	16.11	43.19

Percentages of UFOs, Degenerates, and Viable Embryos 2007 (Traditional)

Donors	%UFOs	%Degenerates	%Viable
Dairy	33.1	14.0	52.6
Beef	30.6	17.6	51.7

Dairy & Beef Basic Collection Data 2008

Donor	# of collections	# viable embryos recovered
Dairy	21769	123056
Beef	31033	205945
Totals	52802	329001

Conclusion

Anyone reading this report should understand that the numbers are not scientifically accurate for the reasons listed in the introduction. However, this report and the accompanying spreadsheet provides a good template for the next person wishing to chair the stats committee and take on the arduous, but ever-so- important task of compiling the US industry data. The key to making this an iconic well referred document is accuracy in reporting and compliance from all ETBs performing commercial ET procedures.

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