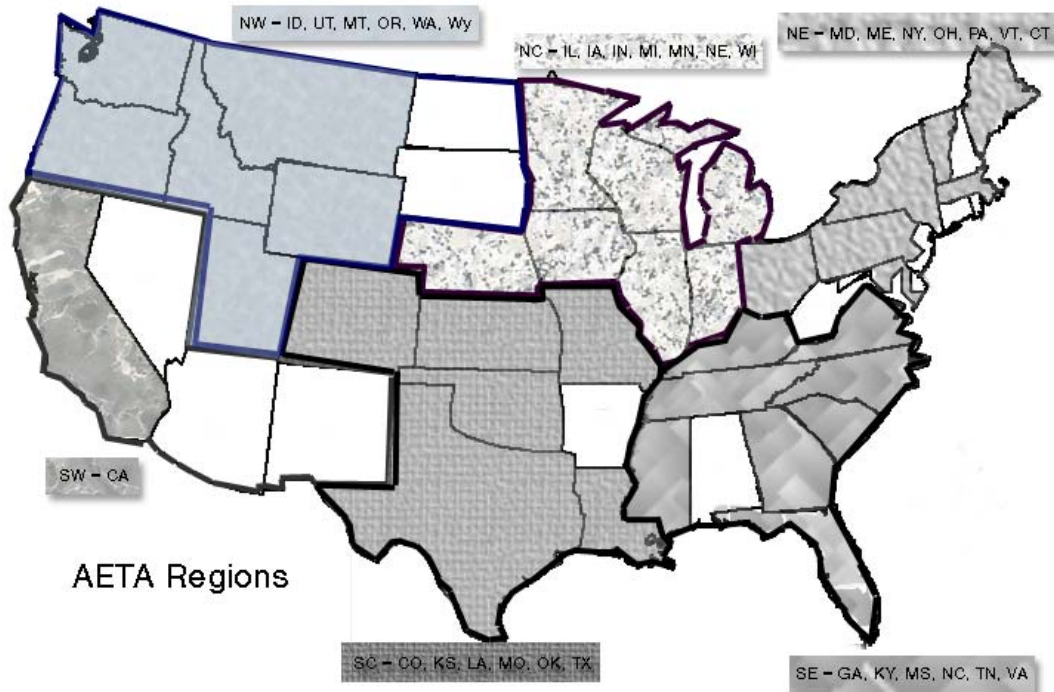


## Annual Report of the AETA Statistics Committee For Calendar Year 2006

Embryo production is still on the rise in both dairy and beef cattle! Take a look and compare your ETB's data to others in your region.



### Fewer ETBs Reporting Data for 2006 (Down 8 from 2005)

Region	# ETBs 2004	# ETBs 2005	# ETBs 2006
NorthEast	21	28	29
SouthEast	15	18	18
NorthCentral	28	39	↓2 37
SouthCentral	19	30	↓6 24
NorthWest	13	15	↓1 14
SouthWest	5	4	4
<b>Totals</b>	<b>101</b>	<b>134</b>	<b>↓8 126</b>

There were 113 certified ETBs reporting in 2006 as compared to 115 in 2005. Most of the reduction in reporting was non-certified companies, which dropped from 19 in 2005 to 13 in 2006. Diversification is inching into the ET industry. 63 ETBs reported being full time, and nearly as many, 61, claim to professionally devote only part time to ET. Data also indicate only 1.01 professional per ETB, while the average ETB employs

2.1 support staff. There could be some confusion about what defines support staff. For example, for those ETBs housing donors (69 in all), do they count outside employees who feed cattle as support staff, or do they count lab support staff only? Also, what about clerical or secretarial staff? Should they be included as support staff? Our committee will try to define support staff more precisely before next year's questionnaire is sent to the membership.

### **Dairy Data Collection**

Dairy data collection remains stable with a slight increase in stimulated recoveries and embryos collected.

#### **2005 Dairy Collection Data by Region**

<b>Region</b>	<b>Non-stimulated dairy donors flushed</b>	<b>Mean # of embryos Collected from Non-Stim Dairy Donors</b>	<b>Dairy donors stimulated &amp; flushed</b>	<b>Viable embryos collected from stimulated dairy donors</b>	<b>Mean # of viable embryos collected from stim. dairy donors</b>	<b>Total transferable embryos collected from dairy donors</b>
<b>NorthEast</b>	<b>143</b>	<b>0.42</b>	<b>5579</b>	<b>29919</b>	<b>5.4</b>	<b>29979</b>
<b>SouthEast</b>	<b>22</b>	<b>0.55</b>	<b>975</b>	<b>5955</b>	<b>6.1</b>	<b>5967</b>
<b>NorthCentral</b>	<b>140</b>	<b>0.47</b>	<b>7616</b>	<b>41716</b>	<b>5.5</b>	<b>41782</b>
<b>SouthCentral</b>	<b>10</b>	<b>0.50</b>	<b>525</b>	<b>2449</b>	<b>4.7</b>	<b>2454</b>
<b>NorthWest</b>	<b>16</b>	<b>0.69</b>	<b>931</b>	<b>5381</b>	<b>5.8</b>	<b>5392</b>
<b>SouthWest</b>	<b>3</b>	<b>0.67</b>	<b>428</b>	<b>2310</b>	<b>5.4</b>	<b>2312</b>
<b>Totals</b>	<b>334</b>	<b>0.47</b>	<b>16054</b>	<b>87730</b>	<b>5.5</b>	<b>87886</b>

#### **2006 Dairy Collection Data by Region**

<b>Region</b>	<b>Non-stimulated dairy donors flushed</b>	<b>Mean # of embryos recovered from non-stimulated dairy collections</b>	<b>Dairy donors stimulated &amp; flushed</b>	<b>Viable embryos collected from stimulated dairy donors</b>	<b>Mean # of viable embryos recovered from stimulated dairy donors</b>	<b>Total transferable embryos collected from dairy donors</b>
<b>NorthEast</b>	<b>123</b>	<b>0.41</b>	<b>5473</b>	<b>28683</b>	<b>5.24</b>	<b>28604</b>
<b>SouthEast</b>	<b>16</b>	<b>0.75</b>	<b>1149</b>	<b>6464</b>	<b>5.63</b>	<b>6476</b>
<b>NorthCentral</b>	<b>122</b>	<b>0.62</b>	<b>7777</b>	<b>43937</b>	<b>5.65</b>	<b>44013</b>
<b>SouthCentral</b>	<b>4</b>	<b>1.00</b>	<b>437</b>	<b>2202</b>	<b>5.04</b>	<b>2206</b>
<b>NorthWest</b>	<b>2</b>	<b>1.00</b>	<b>724</b>	<b>4593</b>	<b>6.34</b>	<b>4595</b>
<b>SouthWest</b>	<b>2</b>	<b>1.00</b>	<b>1010</b>	<b>4508</b>	<b>4.46</b>	<b>4510</b>
<b>Totals</b>	<b>269</b>	<b>0.55</b>	<b>16570</b>	<b>90387</b>	<b>5.46</b>	<b>90404</b>

Nation wide, single egg collections decreased, but stimulated dairy collections increased for the second consecutive year. Viable embryos collected also increased by about 2600. The northeast, south central, and northwest dropped slightly in the number of stimulated collections, but the north central and southwest regions had healthy increases in dairy activity.

### Beef Donor Collection Data

#### Beef Donor Collection Data 2005

Regions	Non Stim. Beef Donors Flushed	Mean # Embryos Collected From Non-Stim. Beef Donors	Beef Donors Stim. & Flushed	Viable Embryos Collected From Stim. Beef Donors	Mean # Viable Embryos Collected From Stim. Beef Donors	Total Viable Embryos Collected From Beef Donors
NorthEast	2	0.50	1665	10237	6.15	10238
SouthEast	1	0.00	5021	43084	8.58	43084
NorthCentral	18	0.56	10323	65334	6.33	65344
SouthCentral	26	0.77	12170	77739	6.39	77759
NorthWest	7	0.43	2765	19049	6.89	19052
SouthWest	0		235	1956	8.32	1956
<b>Totals</b>	<b>54</b>	<b>0.63</b>	<b>32179</b>	<b>217399</b>	<b>6.76</b>	<b>217433</b>

#### Beef Donor Collection Data 2006

Region	Non Stim. Beef Donors Flushed	Mean # Embryos Collected From Non-Stim. Beef Donors	Beef Donors Stim. & Flushed	Viable embs. Collected From Stim. Beef Donors	Mean # of Viable Embryos Collected From Stim. Beef Donors	Total Viable Embryos Collected From Beef Donors
NorthEast	0		1840	10951	6.03	10951
SouthEast	3	1.00	7605	53706	7.06	53709
NorthCentral	19	0.47	10818	68972	6.38	68981
SouthCentral	10	0.60	11969	73658	6.15	73664
NorthWest	4	0.75	2850	19840	6.96	19843
SouthWest	0		241	2189	9.08	2189
<b>Totals</b>	<b>36</b>	<b>0.58</b>	<b>35323</b>	<b>229316</b>	<b>6.50</b>	<b>229337</b>

Beef stimulated donor collections showed a modest increase of 3100 and viable embryos collected increased by almost 12,000. Every region, with the exception of the

southcentral, showed growth in both the numbers of donors collected and embryos recovered. The southeast region had the largest increases in both categories. It was up over 2600 collections and 10,000 viable embryos produced.

### **Fresh Transfers**

#### **Fresh Transfers - Dairy 2005**

<b>Region</b>	<b>Fresh Transfers - Dairy</b>
<b>NorthEast</b>	<b>14128</b>
<b>SouthEast</b>	<b>2373</b>
<b>NorthCentral</b>	<b>15562</b>
<b>SouthCentral</b>	<b>1106</b>
<b>NorthWest</b>	<b>2610</b>
<b>SouthWest</b>	<b>849</b>
<b>Totals</b>	<b>36628</b>

#### **Fresh Transfers - Dairy 2006**

<b>Region</b>	<b>Fresh Transfers - Dairy</b>
<b>NorthEast</b>	<b>13009</b>
<b>SouthEast</b>	<b>2775</b>
<b>NorthCentral</b>	<b>16158</b>
<b>SouthCentral</b>	<b>1142</b>
<b>NorthWest</b>	<b>1971</b>
<b>SouthWest</b>	<b>2382</b>
<b>Totals</b>	<b>37437</b>

Overall, there was only a small increase in the number of fresh dairy embryos transferred in 2006.

### **Fresh Transfers Beef**

#### **Fresh Transfers - Beef 2005**

<b>Regions</b>	<b>Fresh Transfers - Beef</b>
<b>NorthEast</b>	<b>3107</b>
<b>SouthEast</b>	<b>15243</b>
<b>NorthCentral</b>	<b>15154</b>
<b>Southcentral</b>	<b>29325</b>
<b>NorthWest</b>	<b>5475</b>

Southwest	345
Totals	68649

### Fresh Transfers - Beef 2006

Beef fresh transfers were from 2005. This should not to the industry. It is due to freezing and the desire for seasons by the producers.

Region	Fresh Transfers - Beef
NorthEast	3418
SouthEast	20098
NorthCentral	11843
SouthCentral	27318
NorthWest	4608
SouthWest	0
Totals	67285

down slightly (about 1500) be construed as a negative increased confidence in controlled breeding/calving

### Total Fresh Transfers

### Beef and Dairy Combined

Region	2005 Total Fresh Transfers - Beef & Dairy	2006 Total Fresh Transfers - Beef & Dairy
NorthEast	17343	16417
SouthEast	17648	23049
NorthCentral	30879	28273
SouthCentral	30656	28753
NorthWest	8085	6599
SouthWest	1194	2382
Totals	105805	105519

Combined beef and dairy fresh transfers = no significant change.

### Embryos Frozen

### Dairy Glycerol vs. DT vs. Vitrified 2005

Region	Embryos Frozen Glycerol - Dairy	Embryos Frozen DT - Dairy	Embryos Vitrified - Dairy	Total Embryos Frozen - Dairy
NorthEast	2221	14586	0	16719
SouthEast	405	3381	0	3786
NorthCentral	5796	20146	10	25952
SouthCentral	29	822	0	851
NorthWest	56	2487	0	2543
SouthWest	33	1357	0	1390
Totals	8540	42779	10	51241

**Dairy Glycerol vs. DT vs. Vitrified 2006**

Region	Embryos Frozen Glycerol - Dairy	Embryos Frozen DT - Dairy	Embryos Vitrified -Dairy	Total Embryos Frozen - Dairy
NorthEast	1169	13888	0	15025
SouthEast	226	3406	0	3632
NorthCentral	5774	22765	532	29071
SouthCentral	0	1035	0	1035
NorthWest	78	2501	0	2579
SouthWest	11	1286	0	1297
<b>Totals</b>	<b>7258</b>	<b>44881</b>	<b>532</b>	<b>52639</b>

It appears that more dairy embryos are being frozen DT than glycerol, with the total number of embryos frozen remaining stable. There was more vitrification activity in 2006, but, as of yet, very few embryos are being vitrified commercially.

**Beef Glycerol vs. DT vs. Vitrified 2005**

Region	Embryos Frozen - Glycerol Beef	Embryos Frozen - DT Beef	Embryos Vitrified Beef	Total Embryos Cryopreserved Beef
Northeast	10	7021	0	7031
Southeast	422	22485	182	23089
NorthCentral	867	49492	0	50359
Southcentral	1179	46704	0	47883
NorthWest	993	12523	91	13607
Southwest	106	1576	0	1682
<b>Totals</b>	<b>3577</b>	<b>139801</b>	<b>273</b>	<b>143651</b>

**Beef Glycerol vs. DT vs. Vitrified 2006**

Region	Embryos Frozen - Glycerol Beef	Embryos Frozen - DT Beef	Embryos Vitrified Beef	Total Embryos. Cryopreserved Beef
NorthEast	16	7395	0	7411
SouthEast	300	33110	0	33410
NorthCentral	73	57139	0	57212
SouthCentral	598	41877	9	42484
NorthWest	1	15223	0	15224
SouthWest	0	0	0	0
<b>Totals</b>	<b>988</b>	<b>154744</b>	<b>9</b>	<b>155741</b>

Beef embryos frozen in glycerol are on a steady decline nationwide. DT is dominating the marketplace as the method of choice for cryopreservation. Overall, there were about 12,000 more embryos frozen in 2006 as compared to 2005.

### **Total Embryos Frozen Beef & Dairy 2005**

<b>Region</b>	<b>Total Embryos Frozen DT &amp; Gly - Dairy &amp; Beef</b>
<b>NorthEast</b>	<b>23750</b>
<b>SouthEast</b>	<b>26875</b>
<b>NorthCentral</b>	<b>76311</b>
<b>SouthCentral</b>	<b>48734</b>
<b>NorthWest</b>	<b>16150</b>
<b>SouthWest</b>	<b>3072</b>
<b>Totals</b>	<b>194892</b>

### **Total Embryos Frozen Beef & Dairy 2006**

<b>Region</b>	<b>Total Embryos Frozen DT &amp; Gly - Dairy &amp; Beef</b>
<b>NorthEast</b>	<b>22436</b>
<b>SouthEast</b>	<b>37042</b>
<b>NorthCentral</b>	<b>86283</b>
<b>SouthCentral</b>	<b>43519</b>
<b>NorthWest</b>	<b>17803</b>
<b>SouthWest</b>	<b>1297</b>
<b>Totals</b>	<b>208380</b>

Combining dairy and beef, there were over 14,000 more embryos frozen in 2006 than 2005.

### **Frozen Embryos Transferred**

#### **Dairy and Beef Combined Frozen Embryos Transferred 2005**

<b>Region</b>	<b>Embryos Thawed-Gly. - Dairy &amp; Beef</b>	<b>Embryos Thawed-DT - Dairy &amp; Beef</b>	<b>Total Emb. Thawed - Beef &amp; Dairy</b>
<b>NorthEast</b>	<b>973</b>	<b>10178</b>	<b>11151</b>
<b>SouthEast</b>	<b>604</b>	<b>15606</b>	<b>16210</b>

NorthCentral	3783	38454	42237
SouthCentral	1078	34967	36045
NorthWest	1057	11375	12432
SouthWest	1157	3090	4247
<b>Totals</b>	<b>8652</b>	<b>113670</b>	<b>122322</b>

### Dairy and Beef Combined Frozen Embryos Transferred 2006

Region	Embryos Thawed-Gly. - Dairy & Beef	Embryos Thawed-DT - Dairy & Beef	Total Emb. Thawed - Beef & Dairy
NorthEast	735	10999	11734
SouthEast	616	15523	16139
NorthCentral	3395	41922	45317
SouthCentral	964	41472	42436
NorthWest	469	13239	13708
SouthWest	608	4071	4679
<b>Totals</b>	<b>6787</b>	<b>127226</b>	<b>134013</b>

There were roughly 1900 fewer glycerol embryos transferred in 2006, and 14,000 more DT's transferred than in 2005.

### Biopsied Embryos

#### Biopsied Embryos 2005

Region	Fresh Biopsied Transferred - Dairy	Embryos Biopsied & Frozen - Dairy	Fresh Biopsied Transferred - Beef	Embryos Biopsied & Frozen - Beef	Total Embryos Biopsied - Dairy & Beef
Northeast	42	0	66	0	108
Southeast	32	19	0	0	51
NorthCentral	9	27	11	0	47
SouthCentral	2	13	0	14	29
NorthWest	0	0	0	0	0
Southwest	0	0	0	0	0
<b>Totals</b>	<b>85</b>	<b>59</b>	<b>77</b>	<b>14</b>	<b>235</b>

#### Biopsied Embryos 2006

Region	Fresh Biopsied Transferred - Dairy	Embryos Biopsied & Frozen - Dairy	Fresh Biopsied Transferred - Beef	Embryos Biopsied & Frozen - Beef	Total Embryos Biopsied in Dairy & Beef
NorthEast	36	0	0	0	36
SouthEast	33	13	15	0	61
NorthCentral	70	34	68	14	186



<b>SouthCentral</b>	<b>7</b>	<b>8</b>	<b>34</b>	<b>9</b>	<b>58</b>
<b>NorthWest</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>SouthWest</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
					<b>0</b>
<b>Totals</b>	<b>146</b>	<b>55</b>	<b>117</b>	<b>23</b>	<b>341</b>

There was an increase in the number of embryo biopsies in both beef and dairy, but overall it represented a very small percentage of the number of embryos collected.

### Demi-embryos

#### **Demi Embryos in 2005**

<b>Region</b>	<b>Fresh Demi Embryos Transferred - Dairy</b>	<b>Demi Embryos Frozen - Dairy</b>	<b>Fresh Demi Embryos Transferred - Beef</b>	<b>Demi Embryos Frozen - Beef</b>	<b>Total Demi Embryos Thawed</b>
<b>Northeast</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Southeast</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>NorthCentral</b>	<b>121</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>0</b>
<b>SouthCentral</b>	<b>23</b>	<b>0</b>	<b>200</b>	<b>0</b>	<b>0</b>
<b>NorthWest</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Southwest</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Totals</b>	<b>144</b>	<b>0</b>	<b>222</b>	<b>0</b>	<b>0</b>

#### **Demi Embryos in 2006**

<b>Region</b>	<b>Fresh Demi Embryos Transferred - Dairy</b>	<b>Demi Embryos Frozen - Dairy</b>	<b>Fresh Demi Embryos Transferred - Beef</b>	<b>Demi Embryos Frozen - Beef</b>	<b>Total Demi Embryos Thawed</b>
<b>NorthEast</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>SouthEast</b>	<b>0</b>	<b>0</b>	<b>128</b>	<b>0</b>	<b>0</b>
<b>NorthCentral</b>	<b>134</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>SouthCentral</b>	<b>28</b>	<b>0</b>	<b>224</b>	<b>9</b>	<b>2</b>
<b>NorthWest</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>
<b>SouthWest</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Totals</b>	<b>162</b>	<b>0</b>	<b>372</b>	<b>9</b>	<b>2</b>

As with biopsied embryos, there was an increased number of both beef and dairy demi embryo activity, but only a small number of embryos were split in 2006.

### Embryos in Storage

#### **Dairy and Beef Embryos Stored in 2005**

<b>Region</b>	<b>Frozen Embryos In Storage - Dairy</b>	<b>Frozen Embryos In Storage - Beef</b>	<b>Total Embryos In Storage</b>
<b>NorthEast</b>	<b>5696</b>	<b>2759</b>	<b>8455</b>

<b>SouthEast</b>	<b>1323</b>	<b>5497</b>	<b>6820</b>
<b>NorthCentral</b>	<b>18078</b>	<b>66515</b>	<b>84593</b>
<b>SouthCentral</b>	<b>2108</b>	<b>53167</b>	<b>55275</b>
<b>NorthWest</b>	<b>1868</b>	<b>24855</b>	<b>26723</b>
<b>SouthWest</b>	<b>4354</b>	<b>3000</b>	<b>7354</b>
<b>Totals</b>	<b>33427</b>	<b>155793</b>	<b>189220</b>

### Dairy and Beef Embryos Stored in 2006

<b>Region</b>	<b>Frozen Embryos in Storage - Dairy</b>	<b>Frozen Embryos in Storage - Beef</b>	<b>Total Embryos in Storage</b>
<b>NorthEast</b>	<b>6939</b>	<b>2157</b>	<b>9096</b>
<b>SoutheEast</b>	<b>615</b>	<b>8430</b>	<b>9045</b>
<b>NorthCentral</b>	<b>8884</b>	<b>22915</b>	<b>31799</b>
<b>SouthCentral</b>	<b>333</b>	<b>45314</b>	<b>45647</b>
<b>NorthWest</b>	<b>398</b>	<b>17710</b>	<b>18108</b>
<b>SouthWest</b>	<b>4886</b>	<b>3000</b>	<b>7886</b>
<b>Totals</b>	<b>22055</b>	<b>99526</b>	<b>121581</b>

There was an overall decrease in the numbers of dairy and beef embryos reported being stored by ETBs.

### Dairy Exports

#### Dairy Exports 2005

<b>Argentina</b>	<b>Australia</b>	<b>Canada</b>	<b>Czech.</b>	<b>Denmark</b>	<b>France</b>	<b>German</b>
<b>165</b>	<b>103</b>	<b>349</b>	<b>4</b>	<b>7</b>	<b>411</b>	<b>646</b>

<b>Holland</b>	<b>Hungary</b>	<b>Ireland</b>	<b>Italy</b>	<b>Japan</b>	<b>Kenya</b>	<b>Mexico</b>	<b>Panama</b>
<b>587</b>	<b>13</b>	<b>15</b>	<b>149</b>	<b>1600</b>	<b>10</b>	<b>247</b>	<b>22</b>

<b>Poland</b>	<b>Romania</b>	<b>S. Africa</b>	<b>Spain</b>	<b>Sweden</b>	<b>Switzerland</b>	<b>Turkey</b>	<b>UK</b>
<b>8</b>	<b>404</b>	<b>18</b>	<b>98</b>	<b>5</b>	<b>45</b>	<b>444</b>	<b>201</b>

**Total Dairy Exports 2005 = 5859    Total Dairy Exports 2006 = 6834**

#### Dairy Exports 2006

<b>Africa</b>	<b>Argentina</b>	<b>Australia</b>	<b>Brazil</b>	<b>Canada</b>	<b>China</b>	<b>Czech.</b>	<b>Denmark</b>
<b>30</b>	<b>394</b>	<b>113</b>	<b>14</b>	<b>822</b>	<b>86</b>	<b>250</b>	<b>32</b>

<b>France</b>	<b>Germany</b>	<b>Ireland</b>	<b>Italy</b>	<b>Japan</b>	<b>Mexico</b>
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460	1868	2328	10984	4.72	1243	3472	1.49	4715	2.03
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**Slaughter House IVF Embs Produced in 2006 (none reported in 2005)**

Slaughter House-Produced Embs. Trans. Fresh	Slaughter House-Produced Embs. Vitrified	Slaughter House-Produced Embs. Frozen DT	Total Slaughter House-Emb. Produced
641	1525	141	2307

**Combined Slaughterhouse and OPU IVF Embryos Produced 2006**

Total IVF Embs. Trans. Fresh	4113
Total IVF Embs. Frozen	2909
Total IVF Embryos Produced	7022

IVF activity appears to be rising in the United States. However, compared to China and South America, there is still a very small amount of commercial IVF activity in the US.

**Cloning**

**Commercial Cloning Activity 2005**

# Cell Lines	# NT Trans Fresh	# Preg (60 Days)	60 Day Preg Rate
100	928	134	14.44%

**Commercial Cloning Activity 2006**

# Cell Lines	# NT Trans Fresh	# Preg (60 Days)	60 Day Preg. Rate	# NTs Frozen & Thawed
79	4974		~30%	68

3 ETBs Reporting

The number of cell lines reported was down, but the number of transfers was up.

**Other Species**

**Equine Collections/Transfers 2005**

Donor Total	# Emb. Rec.	# Trans.	Fresh preg. rate	# Emb. Frozen	# Emb. Vitrified	# DT thawed	DT Preg. Rate
1278	1039	1073	72.2	1357	0	22	40.00%

### Equine Collections/Transfers 2006

Donor Total	# Emb. Rec.	# Trans.	Fresh preg. rate	# Emb. Frozen	# Emb. Vitrified	# DT thawed	DT Preg. Rate	Gly. Thawed
713	537	535	72.6	2	0	4	75	2

Non-AETA members might interpret the drop in reported equine collections as significant. However, it should be noted that only a fraction of the equine data are included in this data set, both for 2005 and 2006. The number of equine embryos collected for 2006 very likely exceeds 10,000, and probably 15,000. The AETA does not have many members in the equine industry; therefore, the data collected are a poor representation of the industry's actual numbers. The same could be said for sheep and goats.

### Goat Collections/Transfers 2005

Donors Total	# Emb Rec.	# Embryos Trans.	Fresh Pregnancy Rate	No. Embryos Frozen
69	782	568	NA	NA

### Goat Collections/Transfers 2006

Donors Total	# Emb Rec.	# Embryos Trans.	Fresh Pregnancy Rate	No. Embryos Frozen
143	442	408	NA	34

Sheep Collection Data = None reported for 2006

### ETB Information

#### 2005 Data

REGION	ETBs Reporting	Full Time	Part Time	Pro Staff	Pro Staff / ETB	Support Staff	Support Staff / ETB	House Donors	Provide Recips
Northeast	28	11	17	22.0	0.78	19.0	0.7	5	2
Southeast	18	8	10	15.8	0.9	20.5	1.1	12	6
North Central	39	23	16	44.2	1.1	113.2	2.9	13	8

<b>South Central</b>	<b>30</b>	<b>17</b>	<b>13</b>	<b>27.4</b>	<b>0.9</b>	<b>51.6</b>	<b>1.7</b>	<b>24</b>	<b>14</b>
<b>Northwest</b>	<b>15</b>	<b>7</b>	<b>8</b>	<b>9.2</b>	<b>0.6</b>	<b>22.5</b>	<b>1.5</b>	<b>22</b>	<b>7</b>
<b>Southwest</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>2.6</b>	<b>0.7</b>	<b>11.0</b>	<b>2.8</b>	<b>3</b>	<b>2</b>
<b>Totals</b>	<b>134</b>	<b>68</b>	<b>66</b>	<b>121.2</b>	<b>0.9</b>	<b>237.7</b>	<b>1.8</b>	<b>79</b>	<b>39</b>

### 2006 Data

Region	Cert YES	Cert NO	Total ETBs	Full Time	Part Time	Prof Staff	PRO Staff / ETB	Support Staff	Support Staff per ETB	House Donors	Provide Recips
<b>NorthEast</b>	<b>26</b>	<b>3</b>	<b>29</b>	<b>10</b>	<b>19</b>	<b>23.01</b>	<b>0.8</b>	<b>14.0</b>	<b>0.5</b>	<b>4</b>	<b>4</b>
<b>SouthEast</b>	<b>16</b>	<b>1</b>	<b>17</b>	<b>10</b>	<b>8</b>	<b>19.1</b>	<b>1.1</b>	<b>25.6</b>	<b>1.5</b>	<b>12</b>	<b>6</b>
<b>NorthCentral</b>	<b>33</b>	<b>4</b>	<b>37</b>	<b>20</b>	<b>16</b>	<b>46.9</b>	<b>1.3</b>	<b>144.9</b>	<b>3.9</b>	<b>15</b>	<b>9</b>
<b>SouthCentral</b>	<b>21</b>	<b>3</b>	<b>24</b>	<b>15</b>	<b>9</b>	<b>24.7</b>	<b>1.0</b>	<b>59.2</b>	<b>2.5</b>	<b>18</b>	<b>15</b>
<b>NorthWest</b>	<b>12</b>	<b>1</b>	<b>13</b>	<b>6</b>	<b>8</b>	<b>11.0</b>	<b>0.8</b>	<b>16.6</b>	<b>1.3</b>	<b>18</b>	<b>5</b>
<b>SouthWest</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>2.1</b>	<b>0.5</b>	<b>4.0</b>	<b>1.0</b>	<b>2</b>	<b>2</b>
<b>Totals</b>	<b>113</b>	<b>13</b>	<b>126</b>	<b>63</b>	<b>61</b>	<b>126.8</b>	<b>1.0</b>	<b>264.2</b>	<b>2.1</b>	<b>69</b>	<b>41</b>

### Donor Collections per Professional 2005

Region	Dairy Donors Stimulated & Collected	Dairy Donors Collected per Professional	Beef Donors Stimulated & Collected	Beef Donors Collected per Professional	Total Donors Collected	Total Donors Collected per Professional
<b>Northeast</b>	<b>5579</b>	<b>254</b>	<b>1665</b>	<b>76</b>	<b>7244</b>	<b>329</b>
<b>Southeast</b>	<b>975</b>	<b>62</b>	<b>5021</b>	<b>318</b>	<b>5996</b>	<b>379</b>
<b>NorthCentral</b>	<b>7616</b>	<b>172</b>	<b>10323</b>	<b>233</b>	<b>17939</b>	<b>405</b>
<b>Southcentral</b>	<b>525</b>	<b>19</b>	<b>12170</b>	<b>444</b>	<b>12695</b>	<b>463</b>
<b>NorthWest</b>	<b>931</b>	<b>102</b>	<b>2765</b>	<b>302</b>	<b>3696</b>	<b>404</b>
<b>Southwest</b>	<b>428</b>	<b>165</b>	<b>235</b>	<b>90</b>	<b>663</b>	<b>255</b>
<b>Totals</b>	<b>16054</b>	<b>120</b>	<b>32179</b>	<b>240</b>	<b>48233</b>	<b>398</b>

### Donor Collections per Professional 2006

Region	Total Dairy Donor Flushes	Dairy Flushes per Profsnl	Total Beef Donor Flushes	Beef Flushes per Profesnl	Total Flushes	Prof Staff	Flushes per Professional
<b>NorthEast</b>	<b>5596</b>	<b>243</b>	<b>1840</b>	<b>80</b>	<b>7436</b>	<b>23.0</b>	<b>323</b>
<b>SouthEast</b>	<b>1165</b>	<b>61</b>	<b>7608</b>	<b>399</b>	<b>8773</b>	<b>19.1</b>	<b>461</b>

<b>NorthCentral</b>	<b>7899</b>	<b>168</b>	<b>10837</b>	<b>231</b>	<b>18736</b>	<b>46.9</b>	<b>399</b>
<b>SouthCentral</b>	<b>441</b>	<b>18</b>	<b>11979</b>	<b>485</b>	<b>12420</b>	<b>24.7</b>	<b>503</b>
<b>NorthWest</b>	<b>726</b>	<b>66</b>	<b>2854</b>	<b>261</b>	<b>3580</b>	<b>11.0</b>	<b>327</b>
<b>SouthWest</b>	<b>1012</b>	<b>482</b>	<b>241</b>	<b>115</b>	<b>1253</b>	<b>2.1</b>	<b>597</b>
<b>Totals</b>	<b>16839</b>	<b>133</b>	<b>35359</b>	<b>279</b>	<b>52198</b>	<b>126.8</b>	<b>412</b>

ET professionals were busier in 2006 than in 2005 in every category.

**Embryos Transferred per Professional 2006 (not tabulated for 2005)**

<b>Region</b>	<b>Fresh Transfers per Pro</b>	<b>Frozen Transfers per Pro</b>	<b>Total Transfers per Pro</b>
<b>NorthEast</b>	<b>714</b>	<b>514</b>	<b>1228</b>
<b>SouthEast</b>	<b>1210</b>	<b>854</b>	<b>2064</b>
<b>NorthCentral</b>	<b>603</b>	<b>969</b>	<b>1572</b>
<b>SouthCentral</b>	<b>1164</b>	<b>1726</b>	<b>2890</b>
<b>NorthWest</b>	<b>603</b>	<b>1261</b>	<b>1864</b>
<b>SouthWest</b>	<b>1134</b>	<b>2273</b>	<b>3407</b>
<b>Totals</b>	<b>832</b>	<b>1059</b>	<b>1892</b>

**Embryos Frozen per Professional 2005**

<b>Region</b>	<b>Embryos Frozen per Professional</b>
<b>Northeast</b>	<b>1080</b>
<b>Southeast</b>	<b>1701</b>
<b>NorthCentral</b>	<b>1725</b>
<b>Southcentral</b>	<b>1779</b>
<b>NorthWest</b>	<b>1765</b>
<b>Southwest</b>	<b>1182</b>
<b>Totals</b>	<b>1608</b>

**Embryos Frozen per Professional 2006**

<b>Region</b>	<b>Embryos Frozen per Professional</b>
<b>NorthEast</b>	<b>973</b>
<b>SouthEast</b>	<b>1944</b>
<b>NorthCentral</b>	<b>1840</b>

SouthCentral	1762
NorthWest	1626
SouthWest	618
Totals	1644

**Total Ova, Unfertilized and Degenerates Collected**

**Percentages of UFOs, Degenerates, and Viable Embryos 2005**

Cattle	UFOs	Degenerates	Viable
Dairy	31.3%	14.0%	52.0%
Beef	30.2%	15.8%	56.0%

**Percentages of UFOs, Degenerates, and Viable Embryos 2006**

Cattle	UFOs	Degenerates	Viable
Dairy	32.7%	12.9%	54.4%
Beef	29.7%	17.7%	52.6%

**UFOs, Degenerates, and Viable Embryos Dairy 2006**

Total Ova Collected From Stim Dairy Donors	Ova / Stim. Dairy Donor	UFO'S Collected	UFO's / Stim. Dairy Donor	Degens. Collected	Degens. / Stim. Dairy Donor	Trans. Embryos Collected From Stim. Dairy Donors	Mean Trans. Embryos
168379	10.2	55075	3.4	21758	1.3	90387	5.5

**UFOs, Degenerates, and Viable Embryos Beef 2006**

Tot Ova Collected From Beef Donors	Ova / Stim. Beef Donor	UFO'S Collected	UFOs / Stim. Beef Donor	Degens. Collected	Degens. / Stim. Beef Donor	Trans. Embryos Collected From Stim. Beef Donors	Mean Trans. Embryos
428918	12.1	127404	3.6	75837	2	229429	6.5

The numbers of UFOs and degenerates are perhaps the most overlooked and potentially important category of data that we collect. UFOs are costly to the industry and could be



turned into viable embryos in the future if we were able learn more about them. It will likely be a future generation that benefits from our data, but we should be good stewards and collect them diligently. Please keep accurate records whenever possible on a daily basis regarding the number of non-usable ova.

### **Embryo Transfer Conception Rates**

#### **Beef and Dairy Data Combined**

<b>Fresh Preg. Rate</b>	<b>Glycerol Preg. Rate</b>	<b>DT Preg. Rate</b>
<b>62.4</b>	<b>50.5</b>	<b>56.9</b>

Over 90% of these data for conception rates are estimated. Since the mid 1980s, when ET practitioners started no longer being paid by the pregnancy, actual pregnancy data are difficult to acquire.

#### **Conclusion**

The statistical committee would again like to thank you, the members, for getting your stats in on time. For those who didn't, and haven't yet, it really slows down the process of gathering and assimilating the data. Each email that has to be written and each phone call made in behalf of these delinquent files is an added burden to the committee, the president, and to the AETA office – and it costs money.

The benefits are obvious. ET practitioners and ETBs can evaluate their volume relative to their geographical counterparts as well as a nation wide comparison. Those of us in and outside the industry can see the direction of the industry from year-to-year. These numbers are very beneficial to potential buyers of US genetics.

There were some very good comments on the questionnaire this year. One suggested that we ask for data on donors bred with sex sorted sperm. The committee will consider some clarifications and possible new questions, but there will likely be few changes in the questionnaire for 2007 data.

Brad Stroud, DVM  
Chairman AETA Stats Committee