

AETA Statistics Committee
Fall 2016

1. A total of 206 members submitted data, from 160 companies (148 certified ETB's)
2. The results for the AETA 2015 Survey are attached (attachment 1).
3. The data to the IETS Data Retrieval Committee will be submitted by the end of October.
4. There was an increase of 5000 *in vitro* embryo transfers in the USA from 2014 to 2015. Only 12 members reported OPU while 101 members reported embryo transfers. Several members made a note on their surveys, requesting to report their own OPU even if the oocytes are sent to another lab for IVP. *Should we allow practitioners to report their OPU and embryo production results even if they don't have an IVP lab? How can we avoid duplicate data?*
5. I've compiled the AETA and FAS export data from 2010 to 2015 and found that AETA has been reporting more exports than FAS (attachment 2). I've tried to contact USDA but did not get any responses. While I keep trying, I'd like to add a note for the 2016 survey requesting that only the embryo production center should report the export (regardless if the export shipment was made by their company or by another firm), to try to avoid double reporting. *Could we reinforce this during our meeting?*
6. *What could we do to increase non-certified ETB's or non-members to report their collection/ET data to have a better number representing the USA data?*
 - a. *Contact IETS, and try to send a letter to all members with an IETS code in the USA?*
 - b. *Invite practitioners that are not members to join AETA?*
 - c. *Contact Vetoquinol and request information on how much Folltoprin was sold in 2016 to make a better estimate?*
7. An excel file was sent with the 2016 Survey Worksheet. And a few changes were made:
 - a. added "*cervidae*" to section D since we had a few members submitting data;
 - b. added a comment on section E: "Export should be submitted by the EMBRYO PRODUCTION CENTER";
 - c. highlighted the instructions for IVP embryos (to be changed if needed).

Please review my comments and questions and contact me if you need clarification or more input. This is my first year as chair of this committee and I am thankful for Dr Michael Wehrman's guidance and patience. Thank you for your time and efforts and I look forward to hearing your comments, suggestions and guidance on next year's survey.

Sincerely,

Daniela Demetrio DVM, MS

ATTACHMENT 1: 2015 AETA Survey Summary

Table 1: 2015 Bovine <i>in vivo</i> Embryo Production by Semen Type													
Animal Data		Collection Data							Transfer Data			Manipulated	
Breed Type	Semen Type	Collections	Total Ova	Total Viable	Ave Ova	Ave Viable	% viable	Frozen	Fresh	Frozen	Total	Biopsied	Bisected
Dairy	non-sorted	10,340	101,240	63,984	9.8	6.2	63.2%	35,365	29,354	23,359	52,713	2	0
	sex-sorted	2,287	24,125	12,255	10.5	5.4	50.8%	8,030	4,230	2,178	6,408	0	0
	Total	12,627	125,364	76,239	9.9	6.0	60.8%	43,395	33,584	25,537	59,121	2	0
Beef	non-sorted	28,748	365,876	204,043	12.7	7.1	55.8%	160,914	46,197	107,969	154,166	84	185
	sex-sorted	546	5,423	3,050	9.9	5.6	56.2%	2,447	603	1,737	2,340	0	0
	Total	29,294	371,299	207,093	12.7	7.1	55.8%	163,361	46,800	109,706	156,506	84	185
Over All Total		41,921	496,663	283,332	11.8	6.8	57.0%	206,756	80,384	135,243	215,627	86	185

Table 2: 2015 Bovine <i>in vitro</i> Embryo Production													
	OPU Collection Data							OPU Transfer Data			Abattoir Transfer Data		
Breed Type	OPU's	Oocytes	Total Viable	Ave Oocytes	Ave Viable	% Viable	Frozen	Fresh	Frozen	Total	Fresh	Frozen	Total
Dairy	17,329	315,084	96,305	18.2	5.6	30.6%	31,220	37,798	8,971	46,769	264	361	625
Beef	15,307	335,426	101,653	21.9	6.6	30.3%	68,063	20,781	21,212	41,993	0	35	35
Total	32,636	650,510	197,958	19.9	6.1	30.4%	99,283	58,579	30,183	88,762	264	396	660

Table 3: 2015 Other Species <i>in vivo</i> Embryo Production											
	Collection data							Transfer Data			
Species	Collections	Total Ova	Total Viable	Ave Ova	Ave Viable	% Viable	Frozen	Fresh	Frozen	Total	
Caprine	124	1,368	750	11.0	6.0	54.8%	102	648	57	705	
Cervidae	19	122	16	6.4	0.8	13.1%	0	16	0	16	
Equine	865	635	613	0.7	0.7	96.5%	10	603	7	610	
Ovine	94	762	444	8.1	4.7	58.3%	55	364	60	424	
Porcine								1,150	0	1150	
Total	1,102	2,887	1,823				167	2,781	124	2,905	

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State	<i>Dairy</i>				<i>Beef</i>			
	Collections	Ave Viable	% viable	ETS	Collections	Ave Viable	% viable	ETS
AL					70	9.2	61.7%	660
CA	668	5.0	53.7%	4,624	479	5.1	49.8%	2,564
CO	7	2.7	38.8%	19	897	5.7	55.6%	3,792
CT	33	4.4	80.2%	86	46	4.8	53.8%	96
GA	52	5.5	63.5%	283	796	5.7	48.0%	3,794
IA	1058	5.1	60.2%	4,262	4545	6.2	54.0%	24,494
ID	179	9.3	74.7%	2,026	368	5.7	56.1%	2,134
IL	187	6.5	77.1%	852	358	8.1	68.9%	2,577
IN	260	6.7	64.8%	1,357	1920	8.6	63.9%	5,807
KS	25	3.8	47.1%	107	3664	6.9	57.3%	17,345
KY	30	3.8	40.2%	152	1319	6.1	43.8%	7,084
LA					436	5.1	37.4%	1,966
MD	407	6.4	60.9%	1,832	85	8.4	52.5%	922
ME	182	5.0	64.4%	612	9	3.6	65.3%	26
MI	652	6.2	61.5%	3,023	213	7.5	56.1%	1,168
MN	434	5.3	61.2%	1,951	604	8.6	57.6%	5,047
MO	16	4.1	37.5%	115	120	9.8	72.8%	951
MT					840	6.5	54.7%	4,667
NC	26	6.5	60.0%	232	43	8.2	65.0%	289
ND					57	9.3	69.0%	501
NE	2	1.5	16.7%	10	1916	8.7	59.4%	12,995
NY	880	5.8	56.7%	4,130	14	7.6	60.2%	95
OH	392	5.5	47.4%	1,055	1318	7.2	52.8%	4,838
OK					872	7.1	54.2%	4,896
OR	76	8.1	72.9%	546	395	12.5	59.0%	6,384
PA	1600	5.0	60.1%	6,691	503	6.7	55.7%	2,052
SC	2	3.0	75.0%	6				0
SD	4	4.0	26.7%	4	905	6.9	77.4%	4,342
TN	384	6.4	57.2%	1,214	520	7.2	60.0%	3,374
TX	38	3.9	66.8%	344	3271	6.5	50.8%	17,177
UT	38	7.4	68.6%	300				2
VA	201	5.5	70.9%	1,064	1360	8.0	53.7%	8,069
VT	31	6.6	68.1%	130	1	0.0	0.0%	0
WA	70	7.3	69.0%	499	366	8.7	71.3%	1,238
WI	4693	6.7	62.2%	21,595	873	7.6	58.1%	3,689
WY					111	8.1	100.0%	1,471
Total	12,627	6.0	60.8%	59,121	29,294	7.1	55.8%	156,506

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Table 5: 2015 Bovine Embryos Exported by Country

COUNTRY	DAIRY	<i>Rank</i>	BEEF	<i>Rank</i>	TOTAL
Argentina	111		200	10	311
Australia	686	6	389	6	1075
Barbados	0		22		22
Bolivia	298	9	0		298
Brazil	82		625	1	707
Canada	330	7	432	4	762
China	2067	1	534	2	2601
Costa Rica	0		142		142
Denmark	65		0		65
Dominican Republic	75		0		75
Ecuador	80		0		80
France	266	10	290	7	556
Germany	1330	3	486	3	1816
Guatemala	0		17		17
India	9		0		9
Iran	29		0		29
Ireland	125		0		125
Italy	123		0		123
Japan	1759	2	0		1759
Kazakhstan	23		8		31
Korea	800	5	0		800
Mexico	0		268	8	268
Netherlands	1135	4	18		1153
New Zealand	27		226	9	253
Paraguay	0		104		104
Poland	0		27		27
Portugal	24		19		43
Russia	78		0		78
South Africa	0		115		115
Spain	44		58		102
Sweden	0		10		10
Switzerland	213		0		213
Thailand	0		15		15
United Kingdom	303	8	411	5	714
Uruguay	27		65		92
TOTAL	10109		4481		14590

199 Caprine (Meat) embryos exported to Australia not included above

Table 6: 2015 Bovine Embryos Exported by Breed

DAIRY BREEDS		#
AY	Ayrshire	27
BS	Brown Swiss	118
GU	Guernsey	22
HO	Holstein	9635
JE	Jersey	292
MS	Shorthorn	15
BEEF BREEDS		#
AN	Angus	1813
BG	Belted Galloway	15
BM	Beefmaster	97
BN	Brangus	175
BR	Brahman	144
CH	Charolais	19
HP	Hereford (Polled)	10
KB	Wagyu (Kobe)	1297
LM	Limousin	250
RB	Red Brangus	27
RR	Red Brahman	10
SE	Senepol	400
SG	Santa Gertrudis	29
SM	Simmental	195
TOTAL		14590

ATTACHMENT 2: Export Data AETA x USDA-Foreign Agricultural Service (FAS)

YEAR	AETA	FAS	DIFFERENCE
2010	13,655	8,517	5,138
2011	15,586	10,192	5,394
2012	18,520	11,198	7,322
2013	15,896	9,363	6,533
2014	15,537	10,272	5,265
2015	14,590	11,238	3,352
AVERAGE	15,631	10,130	5,501