

## SUMMARY OF EMBRYO TRANSFER ACTIVITY IN CANADA FOR 2012

Prepared by Dr. Reuben Mapletoft, University of Saskatchewan & Karen McDermott, CETA/ACTE  
(Based on data from 76 clinics across Canada)

### BOVINE DATA

(Based on data from 73 clinics across Canada)

#### BOVINE: IN VIVO DATA

DONORS - EMBRYOS COLLECTED - EMBRYOS FROZEN	DAIRY	BEEF	TOTAL NUMBER
Total number of donors	10,826	2,029	12,855
Total number of ova/embryos collected	124,119	28,778	152,897
Total number of transferable embryos collected	75,765	16,062	91,827
Total number of embryos frozen	49,490	12,931	62,421
EMBRYOS TRANSFERRED	DAIRY	BEEF	TOTAL NUMBER
Number of fresh embryos transferred	25,282	2,295	27,577
Number of fresh sexed embryos transferred	1,201	13	1,214
Number of frozen embryos transferred	25,500	5,703	31,203
Number of frozen sexed embryos transferred	1,153	82	1,235
Total number of Direct Transfers	25,156	5,247	30,403
PREGNANCY RATES	DAIRY	BEEF	TOTAL NUMBER
Fresh embryos <i>(based on 16,353 transfers examined for pregnancy)</i>	---	---	60.1 %
Frozen embryos <i>(based on 17,740 transfers examined for pregnancy)</i>	---	---	54.8 %
EXPORT / IMPORT	DAIRY	BEEF	TOTAL NUMBER
Total number of embryos exported	7,956	3,611	11,567
Total number of embryos imported	237	123	360

#### BOVINE: IN VITRO (IVF) DATA

(All IVF data are for Dairy)

SESSIONS - COLLECTED - FROZEN	Produced by OPU	Produced from ABATTOIR OVARIES	TOTAL NUMBER
Number of collections	1,018	0	1,018
Number of oocytes collected	9,549	0	9,549
Number of transferable IVF embryos produced	4,453	0	4,453
Number of IVF embryos frozen	1,397	0	1,397
IVF EMBRYOS TRANSFERRED	Produced by OPU	Produced from ABATTOIR OVARIES	TOTAL NUMBER
Number of fresh IVF embryos transferred	2,653	0	2,653
Number of frozen IVF embryos transferred	339	0	339
EXPORT / IMPORT	Produced by OPU	Produced from ABATTOIR OVARIES	TOTAL NUMBER
Total number of IVF embryos exported	49	0	49

<b>BOVINE DATA</b>	
<b>BOVINE – OTHER TECHNOLOGIES</b>	<b>TOTAL NUMBER</b>
Total number of split embryos transferred	<b>1,740</b>
Total number of embryos biopsied for sexing	<b>3,416</b>
Total number of embryos biopsied for genetic testing	<b>331</b>
Total number of embryos biopsied for diagnostic testing	<b>44</b>

<b>ALTERNATIVE SPECIES</b>					
<i>(Based on data from 5 clinics across Canada)</i>					
<b>ALTERNATIVE SPECIES – IN VIVO</b>					
<b>DONORS - EMBRYOS COLLECTED - EMBRYOS FROZEN</b>	<b>CAPRINE</b>	<b>EQUINE</b>	<b>OVINE</b>	<b>PORCINE</b>	<b>WATER BUFFALO</b>
Total number of donors	<b>34</b>	<b>65</b>	<b>22</b>	<b>24</b>	<b>4</b>
Total number of ova/embryos collected	<b>190</b>	<b>34</b>	<b>173</b>	---	---
Total number of transferable embryos collected	<b>106</b>	<b>32</b>	<b>104</b>	<b>525</b>	<b>1</b>
Total number of embryos frozen	<b>77</b>	<b>2</b>	<b>25</b>	---	---
<b>EMBRYOS TRANSFERRED</b>	<b>CAPRINE</b>	<b>EQUINE</b>	<b>OVINE</b>	<b>PORCINE</b>	<b>WATER BUFFALO</b>
Total number of fresh embryos transferred	---	<b>30</b>	<b>79</b>	<b>485</b>	<b>1</b>
Total number of frozen embryos transferred	---	---	---	---	---
<b>EXPORT / IMPORT</b>	<b>CAPRINE</b>	<b>EQUINE</b>	<b>OVINE</b>	<b>PORCINE</b>	<b>WATER BUFFALO</b>
Total number of embryos exported	---	---	<b>550</b>	<b>525</b>	---
Total number of embryos imported	---	---	---	<b>485</b>	---
<b>NO DATA REPORTED FOR CERVINE SPECIES</b>					