



## SUMMARY OF EMBRYO TRANSFER ACTIVITY IN CANADA FOR 2023

(Based on data from 48 clinics across Canada)

<b>BOVINE DATA</b>			
<i>(Based on data from 47 clinics across Canada)</i>			
<b>BOVINE: IN VIVO DATA</b>			
<b>DONORS – EMBRYOS – FROZEN - TRANSFERS</b>	<b>DAIRY</b>	<b>BEEF</b>	<b>TOTAL NUMBER</b>
Number of donors using conventional semen	1071	2494	<b>3565</b>
Number of donors using sexed semen	2436	25	<b>2461</b>
<b>TOTAL NUMBER OF DONORS</b>	<b>3507</b>	<b>2519</b>	<b>6026</b>
Total number of ova/embryos collected	39,991	37,251	<b>77,242</b>
Number of transferable embryos collected using conventional semen	7533	18,492	<b>26,025</b>
Number of transferable embryos collected using sexed semen	14,569	162	<b>14,731</b>
<b>TOTAL NUMBER OF TRANSFERABLE EMBRYOS COLLECTED</b>	<b>22,102</b>	<b>18,654</b>	<b>40,756</b>
<b>TOTAL NUMBER OF EMBRYOS FROZEN</b>	<b>13,461</b>	<b>13,905</b>	<b>27,366</b>
<b>TOTAL NUMBER OF FRESH EMBRYOS TRANSFERRED</b>	<b>7885</b>	<b>3204</b>	<b>11,089</b>
Number of fresh sexed embryos transferred ( <i>sexed by biopsy</i> )	0	0	0
Number of fresh sexed embryos transferred ( <i>sexed using sexed semen</i> )	4160	13	4173
<b>TOTAL NUMBER OF FRESH SEXED EMBRYOS TRANSFERRED</b>	<b>4160</b>	<b>13</b>	<b>4173</b>
Number of frozen embryos transferred by Direct Transfer	7801	11,566	19,367
<b>TOTAL NUMBER OF FROZEN EMBRYOS TRANSFERRED</b>	<b>8483</b>	<b>12,190</b>	<b>20,673</b>
Number of frozen sexed embryos transferred ( <i>sexed by biopsy</i> )	42	0	42
Number of frozen sexed embryos transferred ( <i>sexed using sexed semen</i> )	3157	24	3181
<b>TOTAL NUMBER OF FROZEN SEXED EMBRYOS TRANSFERRED</b>	<b>3199</b>	<b>24</b>	<b>3223</b>
<b>EXPORT / IMPORT</b>	<b>DAIRY</b>	<b>BEEF</b>	<b>TOTAL NUMBER</b>
Total number of embryos exported	1772	1700	<b>3472</b>
Total number of embryos imported	269	266	<b>535</b>
<b>BOVINE – OTHER TECHNOLOGIES (IN-VIVO):</b>			<b>TOTAL NUMBER</b>
Total number of split embryos transferred			<b>96</b>
Total number of embryos biopsied for sexing			<b>0</b>



<b>BOVINE: IN VITRO (IVF) DATA</b>						
<b>OPU/IVF SESSIONS OOCYTES - EMBRYOS PRODUCED</b>	<b>Produced by OPU Non-Stimulated</b>		<b>Produced by OPU Super-Stimulated</b>		<b>Produced from ABATTOIR OVARIES</b>	<b>TOTAL NUMBER</b>
	<b>DAIRY</b>	<b>BEEF</b>	<b>DAIRY</b>	<b>BEEF</b>		
Number of sessions using conventional semen	2	23	3839	1841	232	<b>5937</b>
Number of sessions using sexed semen	0	0	1663	202	10	<b>1875</b>
<b>TOTAL NUMBER OF SESSIONS</b>	<b>2</b>	<b>23</b>	<b>5502</b>	<b>2043</b>	<b>242</b>	<b>7812</b>
Total number of oocytes collected	0	163	76,139	36,060	2588	<b>114,950</b>
<b>TOTAL NUMBER OF TRANSFERABLE IVP EMBRYOS PRODUCED</b>	<b>0</b>	<b>32</b>	<b>30,757</b>	<b>14,878</b>	<b>360</b>	<b>46,027</b>
<b>IVF EMBRYOS FROZEN - TRANSFERRED - EXPORTED</b>						
			<b>Produced by OPU</b>		<b>Produced from ABATTOIR OVARIES</b>	<b>TOTAL NUMBER</b>
			<b>DAIRY</b>	<b>BEEF</b>		
Total number of IVP embryos frozen			19,107	13,689	322	<b>33,118</b>
Total number of fresh IVP embryos transferred			2911	417	30	<b>3358</b>
Total number of frozen IVP embryos transferred			3775	2733	0	<b>6508</b>
Total number of IVP embryos exported			1790	296	0	<b>2086</b>
Total number of IVP embryos imported			0	175	0	<b>175</b>
<b>BOVINE – OTHER TECHNOLOGIES (IN-VITRO)</b>						<b>TOTAL NUMBER</b>
Total number of split IVP embryos transferred						<b>0</b>
Total number of IVP embryos biopsied for sexing and/or genetic testing						<b>9135</b>

<b>ALTERNATIVE SPECIES</b> <i>(Based on data from 1 clinic in Canada)</i>	
<b>ALTERNATIVE SPECIES – IN VIVO</b>	
<b>DONORS - EMBRYOS – FROZEN - TRANSFERS</b>	<b>Ovine</b>
Total number of donors	<b>17</b>
91Total number of ova/embryos collected	<b>91</b>
Total number of transferable embryos collected	<b>66</b>
Total number of embryos frozen	<b>9</b>
Total number of fresh embryos transferred	<b>57</b>
Total number of frozen embryos transferred	<b>61</b>
<b>EXPORT / IMPORT</b>	<b>OVINE</b>
Total number of embryos exported	<b>0</b>
Total number of embryos imported	<b>49</b>
<b>NO DATA REPORTED for BISON, CAPRINE, CERVINE, EQUINE and PORCINE SPECIES</b>	