



## SUMMARY OF EMBRYO TRANSFER ACTIVITY IN CANADA FOR 2022

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(Based on data from 54 clinics across Canada)

<b>BOVINE DATA</b>			
<i>(Based on data from 53 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	1674	2953	<b>4627</b>
Number of donors using sexed semen	2409	25	<b>2434</b>
<b>TOTAL NUMBER OF DONORS</b>	<b>4083</b>	<b>2978</b>	<b>7061</b>
Total number of ova/embryos collected	41,116	36,597	<b>77,713</b>
Number of transferable embryos collected using conventional semen	9531	20,432	<b>29,963</b>
Number of transferable embryos collected using sexed semen	13,566	152	<b>13,718</b>
<b>TOTAL NUMBER OF TRANSFERABLE EMBRYOS COLLECTED</b>	<b>23,097</b>	<b>20,584</b>	<b>43,681</b>
<b>TOTAL NUMBER OF EMBRYOS FROZEN</b>	<b>15,173</b>	<b>16,667</b>	<b>31,840</b>
<b>TOTAL NUMBER OF FRESH EMBRYOS TRANSFERRED</b>	<b>7331</b>	<b>3511</b>	<b>10842</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> )	3664	5	3669
<b>TOTAL NUMBER OF FRESH SEXED EMBRYOS TRANSFERRED</b>	<b>3664</b>	<b>5</b>	<b>3669</b>
Number of frozen embryos transferred by Direct Transfer	8681	11,208	19,889
<b>TOTAL NUMBER OF FROZEN EMBRYOS TRANSFERRED</b>	<b>8695</b>	<b>11,448</b>	<b>20,143</b>
Number of frozen sexed embryos transferred ( <i>sexed by biopsy</i> )	28	1	29
Number of frozen sexed embryos transferred ( <i>sexed using sexed semen</i> )	3344	54	3398
<b>TOTAL NUMBER OF FROZEN SEXED EMBRYOS TRANSFERRED</b>	<b>3372</b>	<b>55</b>	<b>3427</b>
<b>PREGNANCY RATES</b>	<b>DAIRY</b>	<b>BEEF</b>	<b>TOTAL NUMBER</b>
Fresh embryos ( <i>based on 3910 transfers examined for pregnancy</i> )	---	---	<b>57.7 %</b>
Frozen embryos ( <i>based on 6892 transfers examined for pregnancy</i> )	---	---	<b>57.3 %</b>
<b>EXPORT / IMPORT</b>	<b>DAIRY</b>	<b>BEEF</b>	<b>TOTAL NUMBER</b>
Total number of embryos exported	2582	3613	<b>6195</b>
Total number of embryos imported	265	631	<b>896</b>
<b>BOVINE – OTHER TECHNOLOGIES (IN-VIVO):</b>			<b>TOTAL NUMBER</b>
Total number of split embryos transferred			<b>150</b>
Total number of embryos biopsied for sexing			<b>42</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	0	0	2435	1418	235	<b>4088</b>
Number of sessions using sexed semen	3	0	918	133	0	<b>1054</b>
<b>TOTAL NUMBER OF SESSIONS</b>	<b>3</b>	<b>0</b>	<b>3353</b>	<b>1551</b>	<b>235</b>	<b>5142</b>
Total number of oocytes collected	0	0	38,523	21,956	2437	<b>62,916</b>
<b>TOTAL NUMBER OF TRANSFERABLE IVP EMBRYOS PRODUCED</b>	<b>0</b>	<b>0</b>	<b>17,808</b>	<b>9059</b>	<b>386</b>	<b>27,253</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			10,549	8508	386	<b>19,443</b>
Total number of fresh IVP embryos transferred			2421	337	0	<b>2758</b>
Total number of frozen IVP embryos transferred			4555	2554	0	<b>7109</b>
Total number of IVP embryos exported			1807	61	0	<b>1868</b>
Total number of IVP embryos imported			14	185	0	<b>199</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>8907</b>

<b>ALTERNATIVE SPECIES</b> <i>(Based on data from 1 clinic across Canada)</i>			
<b>ALTERNATIVE SPECIES – IN VIVO</b>			
<b>DONORS - EMBRYOS – FROZEN - TRANSFERS</b>			<b>OVINE</b>
Total number of donors			<b>81</b>
Total number of ova/embryos collected			<b>402</b>
Total number of transferable embryos collected			<b>180</b>
Total number of embryos frozen			<b>37</b>
Total number of fresh embryos transferred			<b>143</b>
Total number of frozen embryos transferred			<b>64</b>
<b>EXPORT / IMPORT</b>			<b>OVINE</b>
Total number of embryos exported			<b>0</b>
Total number of embryos imported			<b>56</b>
<b>NO DATA REPORTED for BISON, CAPRINE, CERVINE, EQUINE and PORCINE SPECIES</b>			