



SUMMARY OF EMBRYO TRANSFER ACTIVITY IN CANADA FOR 2020

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(Based on data from 58 clinics across Canada)

BOVINE DATA			
<i>(Based on data from 55 clinics across Canada)</i>			
BOVINE: IN VIVO DATA			
DONORS – EMBRYOS – FROZEN - TRANSFERS	DAIRY	BEEF	TOTAL NUMBER
Number of donors using conventional semen	2,241	2,505	4,746
Number of donors using sexed semen	2,084	16	2,100
TOTAL NUMBER OF DONORS	4,325	2,521	6,846
Total number of ova/embryos collected	48,689	33,999	82,688
Number of transferable embryos collected using conventional semen	14,943	18,014	32,957
Number of transferable embryos collected using sexed semen	12,880	121	13,001
TOTAL NUMBER OF TRANSFERABLE EMBRYOS COLLECTED	27,823	18,135	45,958
TOTAL NUMBER OF EMBRYOS FROZEN	17,815	14,717	32,532
TOTAL NUMBER OF FRESH EMBRYOS TRANSFERRED	9,414	2,996	12,410
Number of fresh sexed embryos transferred (<i>sexed by biopsy</i>)	22	9	31
Number of fresh sexed embryos transferred (<i>sexed using sexed semen</i>)	4,222	5	4,227
TOTAL NUMBER OF FRESH SEXED EMBRYOS TRANSFERRED	4,244	14	4,258
Number of frozen embryos transferred by Direct Transfer	10,114	9,719	19,833
TOTAL NUMBER OF FROZEN EMBRYOS TRANSFERRED	10,150	9,848	19,998
Number of frozen sexed embryos transferred (<i>sexed by biopsy</i>)	109	8	117
Number of frozen sexed embryos transferred (<i>sexed using sexed semen</i>)	2,831	21	2,852
TOTAL NUMBER OF FROZEN SEXED EMBRYOS TRANSFERRED	2,940	29	2,969
PREGNANCY RATES	DAIRY	BEEF	TOTAL NUMBER
Fresh embryos (<i>based on 4,473 transfers examined for pregnancy</i>)	---	---	57.3%
Frozen embryos (<i>based on 6,334 transfers examined for pregnancy</i>)	---	---	51.7%
EXPORT / IMPORT	DAIRY	BEEF	TOTAL NUMBER
Total number of embryos exported	3,929	2,941	6,870
Total number of embryos imported	17	645	662
BOVINE – OTHER TECHNOLOGIES (IN-VIVO):			TOTAL NUMBER
Total number of split embryos transferred			331
Total number of embryos biopsied for sexing			179



BOVINE: IN VITRO (IVF) DATA						
OPU/IVF SESSIONS OOCYTES - EMBRYOS PRODUCED	Produced by OPU Non-Stimulated		Produced by OPU Super-Stimulated		Produced from ABATTOIR OVARIES	TOTAL NUMBER
	DAIRY	BEEF	DAIRY	BEEF		
Number of sessions using conventional semen	4	1	3,163	924	---	4,092
Number of sessions using sexed semen	42	0	859	100	---	1001
TOTAL NUMBER OF SESSIONS	46	1	4,022	1024	---	5,093
Total number of oocytes collected	507	6	46,903	15,241	5,808	68,465
TOTAL NUMBER OF TRANSFERABLE IVP EMBRYOS PRODUCED	71	1	19,550	4,900	790	25,312
IVF EMBRYOS FROZEN - TRANSFERRED - EXPORTED						
			Produced by OPU		Produced from ABATTOIR OVARIES	TOTAL NUMBER
			DAIRY	BEEF		
Total number of IVP embryos frozen			12,099	4,246	330	16,675
Total number of fresh IVP embryos transferred			5,963	516	0	6,479
Total number of frozen IVP embryos transferred			3,038	731	0	3,769
Total number of IVP embryos exported			1,857	36	0	1,893
Total number of IVP embryos imported			28	59	0	87
BOVINE – OTHER TECHNOLOGIES (IN-VITRO)						TOTAL NUMBER
Total number of split IVP embryos transferred						4
Total number of IVP embryos biopsied for sexing and/or genetic testing						9,799 / 9,524

ALTERNATIVE SPECIES <i>(Based on data from 5 clinics across Canada)</i>			
ALTERNATIVE SPECIES – IN VIVO			
DONORS - EMBRYOS – FROZEN - TRANSFERS	CAPRINE	EQUINE	OVINE
Total number of donors	15	31	0
Total number of ova/embryos collected	104	14	0
Total number of transferable embryos collected	46	14	0
Total number of embryos frozen	38	0	0
Total number of fresh embryos transferred	8	14	0
Total number of frozen embryos transferred	5	0	516
EXPORT / IMPORT	CAPRINE	EQUINE	OVINE
Total number of embryos exported	0	0	0
Total number of embryos imported	0	0	516
NO DATA REPORTED for BISON, CERVINE and PORCINE SPECIES			