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SUMMARY OF EMBRYO TRANSFER ACTIVITY IN CANADA FOR 2019

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(Based on data from 59 clinics across Canada)

BOVINE DATA			
<i>(Based on data from 56 clinics across Canada)</i>			
BOVINE: IN VIVO DATA			
DONORS – EMBRYOS – FROZEN - TRANSFERS	DAIRY	BEEF	TOTAL NUMBER
Number of donors using conventional semen	2,418	2,798	5,216
Number of donors using sexed semen	2,457	12	2,469
TOTAL NUMBER OF DONORS	4,875	2,810	7,685
Total number of ova/embryos collected	52,606	38,437	91,043
Number of transferable embryos collected using conventional semen	14,716	20,308	35,024
Number of transferable embryos collected using sexed semen	13,670	67	13,737
TOTAL NUMBER OF TRANSFERABLE EMBRYOS COLLECTED	28,386	20,375	48,761
TOTAL NUMBER OF EMBRYOS FROZEN	18,500	16,801	35,301
TOTAL NUMBER OF FRESH EMBRYOS TRANSFERRED	9,985	3,163	13,148
Number of fresh sexed embryos transferred (<i>sexed by biopsy</i>)	60	19	79
Number of fresh sexed embryos transferred (<i>sexed using sexed semen</i>)	4,396	11	4,407
TOTAL NUMBER OF FRESH SEXED EMBRYOS TRANSFERRED	4,456	30	4,486
Number of frozen embryos transferred by Direct Transfer	12,363	8,997	21,360
TOTAL NUMBER OF FROZEN EMBRYOS TRANSFERRED	12,703	9,185	21,888
Number of frozen sexed embryos transferred (<i>sexed by biopsy</i>)	120	16	136
Number of frozen sexed embryos transferred (<i>sexed using sexed semen</i>)	2,912	25	2,937
TOTAL NUMBER OF FROZEN SEXED EMBRYOS TRANSFERRED	3,032	41	3,073
PREGNANCY RATES	DAIRY	BEEF	TOTAL NUMBER
Fresh embryos (<i>based on 5,007 transfers examined for pregnancy</i>)	---	---	56.6%
Frozen embryos (<i>based on 7,562 transfers examined for pregnancy</i>)	---	---	53.3%
EXPORT / IMPORT	DAIRY	BEEF	TOTAL NUMBER
Total number of embryos exported	3,699	3,469	7,168
Total number of embryos imported	23	168	191
BOVINE – OTHER TECHNOLOGIES (IN-VIVO):			TOTAL NUMBER
Total number of split embryos transferred			397
Total number of embryos biopsied for sexing			251



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	9	5	2,975	507	---	3,496
Number of sessions using sexed semen	49	0	1,018	112	---	1,179
TOTAL NUMBER OF SESSIONS	58	5	3,993	619	---	4,675
Total number of oocytes collected	584	47	45,868	9,972	9,120	65,591
TOTAL NUMBER OF TRANSFERABLE IVP EMBRYOS PRODUCED	59	6	18,691	4,251	1,033	24,040
IVF EMBRYOS FROZEN - TRANSFERRED - EXPORTED						
			Produced by OPU		Produced from ABATTOIR OVARIES	TOTAL NUMBER
			DAIRY	BEEF		
Total number of IVP embryos frozen			10,436	3,054	85	13,575
Total number of fresh IVP embryos transferred			3,926	271	0	4,197
Total number of frozen IVP embryos transferred			3,885	758	0	4,643
Total number of IVP embryos exported			1,283	22	0	1,305
BOVINE – OTHER TECHNOLOGIES (IN-VITRO)						TOTAL NUMBER
Total number of split IVP embryos transferred						8
Total number of IVP embryos biopsied for sexing and/or genetic testing						3,358 / 3,343

ALTERNATIVE SPECIES					
<i>(Based on data from 4 clinics across Canada)</i>					
ALTERNATIVE SPECIES – IN VIVO					
DONORS - EMBRYOS – FROZEN - TRANSFERS	CAPRINE	CERVINE	EQUINE	OVINE	PORCINE
Total number of donors	12	0	13	88	25
Total number of ova/embryos collected	148	0	4	834	709
Total number of transferable embryos collected	40	0	4	402	363
Total number of embryos frozen	22	0	0	370	0
Total number of fresh embryos transferred	18	0	4	32	0
Total number of frozen embryos transferred	0	111	0	37	0
EXPORT / IMPORT	CAPRINE	CERVINE	EQUINE	OVINE	PORCINE
Total number of embryos exported	6	0	0	77	363
Total number of embryos imported	0	111	0	0	0
NO DATA REPORTED FOR BISON SPECIES					