



SUMMARY OF EMBRYO TRANSFER ACTIVITY IN CANADA FOR 2024

(Based on data from 48 clinics across Canada)

| BOVINE DATA | | | |
|---|---------------------|---------------|---------------------|
| <i>(Based on data from 46 clinics across Canada)</i> | | | |
| BOVINE: IN VIVO DATA | | | |
| DONORS – EMBRYOS – FROZEN - TRANSFERS | DAIRY | BEEF | TOTAL NUMBER |
| Number of donors using conventional semen | 1107 | 2445 | 3552 |
| Number of donors using sexed semen | 2063 | 27 | 2090 |
| TOTAL NUMBER OF DONORS | 3194 | 2472 | 5666 |
| Total number of ova/embryos collected | 33,973 | 34,366 | 68,338 |
| Number of transferable embryos collected using conventional semen | 7653 | 17,114 | 24,767 |
| Number of transferable embryos collected using sexed semen | 11,763 | 195 | 11,958 |
| TOTAL NUMBER OF TRANSFERABLE EMBRYOS COLLECTED | 19,416 | 17,309 | 36,725 |
| TOTAL NUMBER OF EMBRYOS FROZEN | 11,191 | 13,358 | 24,549 |
| TOTAL NUMBER OF FRESH EMBRYOS TRANSFERRED | 6620 | 3004 | 9624 |
| Number of fresh sexed embryos transferred (<i>sexed by biopsy</i>) | 1 | 0 | 1 |
| Number of fresh sexed embryos transferred (<i>sexed using sexed semen</i>) | 3027 | 88 | 3115 |
| TOTAL NUMBER OF FRESH SEXED EMBRYOS TRANSFERRED | 3028 | 88 | 3116 |
| Number of frozen embryos transferred by Direct Transfer | 7578 | 13,122 | 20,700 |
| TOTAL NUMBER OF FROZEN EMBRYOS TRANSFERRED | 7593 | 13,152 | 20,745 |
| Number of frozen sexed embryos transferred (<i>sexed by biopsy</i>) | 29 | 0 | 29 |
| Number of frozen sexed embryos transferred (<i>sexed using sexed semen</i>) | 3162 | 65 | 3227 |
| TOTAL NUMBER OF FROZEN SEXED EMBRYOS TRANSFERRED | 3191 | 65 | 3256 |
| EXPORT / IMPORT | DAIRY | BEEF | TOTAL NUMBER |
| Total number of embryos exported | 1767 | 1708 | 3475 |
| Total number of embryos imported | 93 | 545 | 638 |
| BOVINE – OTHER TECHNOLOGIES (IN-VIVO): | TOTAL NUMBER | | |
| Total number of split embryos transferred | 79 | | |
| Total number of embryos biopsied for sexing | 0 | | |



| 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 | 3 | 4 | 3429 | 2086 | --- | 5522 |
| Number of sessions using sexed semen | 18 | 1 | 1496 | 193 | --- | 1708 |
| TOTAL NUMBER OF SESSIONS | 21 | 5 | 4925 | 2279 | --- | 7230 |
| Total number of oocytes collected | 204 | 69 | 63,455 | 40,568 | 201 | 104,497 |
| TOTAL NUMBER OF TRANSFERABLE IVP EMBRYOS PRODUCED | 55 | 17 | 26,073 | 19,146 | 5 | 45,296 |
| IVF EMBRYOS FROZEN - TRANSFERRED - EXPORTED | Produced by OPU | | Produced from ABATTOIR OVARIES | TOTAL NUMBER | | |
| | DAIRY | BEEF | | | | |
| Total number of IVP embryos frozen | 15,185 | 17,575 | 5 | 32,765 | | |
| Total number of fresh IVP embryos transferred | 2812 | 596 | 0 | 3408 | | |
| Total number of frozen IVP embryos transferred | 3362 | 3038 | 0 | 6400 | | |
| Total number of IVP embryos exported | 2840 | 134 | 0 | 2974 | | |
| Total number of IVP embryos imported | 28 | 70 | 0 | 98 | | |
| BOVINE – OTHER TECHNOLOGIES (IN-VITRO) | | | | TOTAL NUMBER | | |
| Total number of split IVP embryos transferred | | | | 0 | | |
| Total number of IVP embryos biopsied for sexing and/or genetic testing | | | | 7988 | | |



| ALTERNATIVE SPECIES <i>(Based on data from 3 clinic's in Canada)</i> | | |
|--|---------------|----------------|
| ALTERNATIVE SPECIES – IN VIVO | | |
| DONORS - EMBRYOS – FROZEN - TRANSFERS | OVINE | CAPRINE |
| Total number of donors | 19 | 0 |
| Total number of ova/embryos collected | 121 | 0 |
| Total number of transferable embryos collected | 91 | 0 |
| Total number of embryos frozen | 29 | 0 |
| Total number of fresh embryos transferred | 62 | 0 |
| Total number of frozen embryos transferred | 33 | 11 |
| EXPORT / IMPORT | OVINE | |
| Total number of embryos exported | 146 | 0 |
| Total number of embryos imported | 0 | 0 |
| ALTERNATIVE SPECIES: IN VITRO (IVF) DATA | | |
| | EQUINE | |
| Number of Live Animals Non-Stimulated – Conventional Semen | 26 | |
| Total number of oocytes collected | 203 | |
| Total Number of Transferable IVP Embryos produced | 26 | |
| Total Number of IVP Embryos frozen | 26 | |
| NO DATA REPORTED for BISON, CERVINE and PORCINE SPECIES | | |