

**Commercial Embryo Transfer Activity
in Europe 2022**

Collated by Helene Quinton

National data collectors

Country	Collector	Comment
Austria	Eva DACHSBERGER	
Belgium	Isabelle DONNAY	
Czech Republic	Jiri SICHTAR	
Denmark	Henrik CALLESEN	
Finland	Anna OKSA-PULLIAINEN	
France	Serge LACAZE	
Germany	Hubert CRAMER	
Greece	Foteini SAMARTZI	
Hungary	Ferenc FLINK	
Italy	Giovanna LAZZARI	
Latvia	Ilga SEMATOVICA	
Lithuania	Rasa NAINIENE	
Netherlands	Anna BEKER VAN WOUNDENBERG	
Netherlands	Erik MULLAART	
Norway	Tjerand LUNDE	
Poland	Jedrzej JASKOWSKI	
Portugal	Joao Nestor CHAGAS E SILVA	
Romania	Stefan CIORNEI	
Russian Federation	Victor MADISON	
Serbia	Aleksandar MILOVANOVIC	
Slovakia	Dalibor POLAK	No activity
Slovenia	Aleksandar PLAVSIC	
Spain	Pablo BERMEJO	
Sweden	Renee BÅGE	
Switzerland	Sarah Wyck	
Turkey	Hakan SAGIRKAYA	
United Kingdom	Peter MAY and Jake OLIVIER	

Declared bovine *In vivo* embryo production

Country	Dairy				Beef				All		
	Collections	% Coll. with sexed semen	Embryos & ova	Transferable embryos	Collections	% Coll. with sexed semen	Embryos & ova	Transferable embryos	Collections total	Transferable embryos total	Embryos/collection
Austria	526	8%	5 048	3 595	13	8%	174	40	539	3 635	6,7
Belgium	13	0%	78	22	652	0%	3 677	2 407	665	2 429	3,7
Czech Republic	410	0%	2 939	2 043					410	2 043	5,0
Denmark	773	0%	6 170	4 336	50	0%	535	402	823	4 738	5,8
Finland	365	7%	3 492	2 553	2	0%	16	10	367	2 563	7,0
France	4 836	16%	40 105	25 092	1 486	5%	15 160	8 450	6 322	33 542	5,3
Germany	3 970	0%	37 465	25 826	340	0%	4 048	2 364	4 310	28 190	6,5
Greece	4	100%	23	14					4	14	3,5
Hungary	389	98%	1 780	1 573	38	34%	225	181	427	1 754	4,1
Italy	2 145	56%	21 085	19 410	112	0%	1 098	796	2 257	20 206	9,0
Lithuania	2	0%	5	5					2	5	2,5
Netherlands	2 466	1%	19 762	12 879					2 466	12 879	5,2
Norway	370	1%	2 436	2 230	10	0%	93	65	380	2 295	6,0
Poland	235	52%	2 034	1 322	3	0%	29	16	238	1 338	5,6
Portugal	85	87%	781	364	30	0%	302	160	115	524	4,6
Romania	11	0%	68	31	4	0%	3	3	15	34	2,3
Russian Federation	358	55%	1 840	867	753	1%	7 259	4 545	1 111	5 412	4,9
Slovenia	15	20%	60	21	2	0%	7	7	17	28	1,6
Spain	179	86%	1 721	782	112	7%	1 241	757	291	1 539	5,3
Sweden	123	7%	971	655					123	655	5,3
Switzerland	408	54%	4 664	2 876	3	67%	69	34	411	2 910	7,1
Turkey	315	56%	2 824	1 791					315	1 791	5,7
United Kingdom	748	0%	7 431	4 138	3 296	0%	9 516	4 374	4 044	8 512	2,1
Total général	18 746	18%	162 782	112 425	6 906	1%	43 452	24 611	25 652	137 036	5,3

Declared bovine *In vitro* embryo production (OPU-IVP)

Country	Dairy				Beef				All		
	OPU	% OPU with sexed semen	Oocytes	Embryos	OPU	% OPU with sexed semen	Oocytes	Embryos	OPU	Embryos	Embryos /OPU
Austria	25	96%	237	38					25	38	1,5
Finland	521	0%	4 749	1 075					521	1 075	2,1
France	1 544	2%	19 448	4 872	38	3%	924	392	1 582	5 264	3,3
Germany	2 650	0%	32 038	8 323					2 650	8 323	3,1
Hungary	1	0%	6	1	1	0%	4	1	2	2	1,0
Italy	177	71%	1 798	488	28	0%	114	28	205	516	2,5
Netherlands	5 871	1%	62 410	11 773					5 871	11 773	2,0
Norway	39	0%	447	70					39	70	1,8
Poland	150	85%	2 242	553					150	553	3,7
Romania	40	0%	209	84					40	84	2,1
Russian Federation	97	100%	985	147					97	147	1,5
Serbia	32	91%	412	141					32	141	4,4
Spain	748	77%	7 888	2 316	196	10%	2 339	765	944	3 081	3,3
Switzerland	228	34%	2 414	918					228	918	4,0
Turkey	144	0%	1 843	239					144	239	1,7
United Kingdom	787	0%	12 296	3 867					787	3 867	4,9
Total général	13 054	9%	149 422	34 905	263	8%	3 381	1 186	13 317	36 091	2,7

Declared bovine *In vitro* embryo production – abattoir

Country	Dairy				Beef			
	Donors	% with sexed semen	Oocytes	Embryos	Donors	% with sexed semen	Oocytes	Embryos
Greece	6	14%	192	16	12	0%	151	29
Netherlands	2	0%	75	27	0			
Slovenia	164	0%	26 890	2 565	0			
Spain					947	0%	13 173	3 562
United Kingdom	229	0%	2 478	837	64	0%	555	195
Total	401	0%	29 635	3 445	1 023	0%	13 879	3 786

Declared bovine embryo technologies – embryo genotyping

Country	Sexed embryos		Genotyped embryos	
	In Vivo	In Vitro	In Vivo	In Vitro
France	266	0	678	88
Germany	163	9	0	0
Netherlands	0	0	0	4 156
Total	429	9	678	4 244

Declared bovine embryo transfers and exports– *In vivo*

Country	Dairy				Beef				Total embryos transferred
	Fresh embryos transferred	Frozen embryos			Fresh embryos transferred	Frozen embryos			
		Domestic transferred	Foreign transferred	Exported		Domestic transferred	Foreign transferred	Exported	
Austria	1 515	1 786	48	24	16	94	0	0	3 459
Belgium	2	20	0	0	493	1 914	0	0	2 429
Czech Republic	1 253	914	0	0	0	0	0	0	2 167
Denmark	3 147	1 519	0	18	103	106	0	9	4 875
Finland	722	1 875	83	573	3	12	50	0	2 745
France	12 031	10 525	877	124	2 863	3 375	156	256	29 827
Germany	10 861	15 403	0	853	836	1 340	0	0	28 440
Greece	14	0	7	0	0	0	0	0	21
Hungary	644	621	0	0	62	83	13	0	1 423
Italy	6 037	1 755	0	0	132	0	0	0	7 924
Netherlands	2 290	9 596	0	0	0	0	0	0	11 886
Norway	43	2 063	150	0	30	35	80	0	2 401
Poland	783	286	46	0	4	0	0	0	1 119
Portugal	124	170	0	0	74	53	88	0	509
Romania	61	0	0	0	4	0	46	0	111
Russian Federation	312	587	1 045	0	10	4 586	121	0	6 661
Slovenia	30	5	0	0	3	4	0	0	42
Spain	353	478	61	31	132	322	100	0	1 446
Sweden	420	1 099	0	0	0	0	0	0	1 519
Switzerland	671	1 952	270	152	0	0	0	0	2 893
Turkey	1 128	113	0	0	0	0	0	0	1 241
United Kingdom	1 738	2 097	814	4	795	2 240	438	135	8 122
Grand Total	44 179	52 864	3 401	1 779	5 560	14 164	1 092	400	121 260

Declared bovine embryo transfers and exports – *In vitro*

Country	OPU				Abattoir		Total embryos transferred
	Fresh embryos transferred	Domestic frozen embryos transferred	Foreign frozen embryos transferred	Embryos exported	Fresh embryos transferred	Domestic frozen embryos transferred	
Austria	0	19	0	0	0	0	19
Finland	0	747	0	281	0	0	747
France	2 373	2 138	208	0	0	0	4 719
Latvia	9	10	80	0	0	0	99
Netherlands	3 907	2 228	0	0	0	0	6 135
Poland	89	57	0	0	0	0	146
Portugal	0	1	78	0	0	0	79
Romania	33	51	0	0	0	0	84
Russian Federation	6	80	0	0	0	0	86
Serbia	0	3	0	0	0	0	3
Spain	845	1 068	30	29	1 394	980	4 317
Turkey	0	239	0	0	10	61	310
United Kingdom	302	843	1	130	0	0	1 146
Grand total	7 564	7 484	397	440	1 404	1 041	17 871

Declared embryo production, transfer and export in other species – *In vivo*

Species	Country	Embryo collection		Embryo transfer			
		Collections	Viable embryos	Fresh embryos	Frozen domestic	Frozen foreign	Exported embryos
Sheep	Hungary	7	7	7	0	0	0
	Portugal	12	16	7	0	0	0
	Turkey	5	13	7	6	96	0
	United Kingdom	290	1296	1095	175	0	0
	Total	314	1332	1 116	181	96	0
Goat	Turkey	2	24	24	0	0	0
	United Kingdom	1	22	22	0	16	0
	Total	3	46	46	0	16	0
Horse	Czech Republic	23	22	7	0	0	0
	Hungary	3	3	3	0	0	0
	Poland	7	7	7	7	0	0
	Portugal	87	49	49	0	0	0
	Romania	3	0	2	0	0	0
	Russian Federation	42	28	25	2	0	0
	Sweden	33	0	23	0	0	0
	Total	198	109	116	9	0	0
Rabbit	Romania	31	209	0	0	0	0

Declared embryo production, transfer and export in other species – *In vitro*

Species	Country	Oocyte collection				IVP embryo transfer			Exported embryos
		OPU conv	OPU sexed	Oocytes	Embryos	Fresh embryos	Frozen domestic	Frozen foreign	
Sheep	Serbia	2	0	22	6	0	0	0	0
	Sweden	0	0	0	0	0	0	295	0
	United Kingdom	12	0	48	0	0	0	0	0
	Total	14	0	70	6	0	0	295	0
Horse	Italy	1595	0	47321	7036	9	796	0	3609
	Poland	21	0	210	21	0	0	0	21
	Portugal	39	0	419	74	0	0	2	0
	Sweden	0	0	0	0	23	0	0	0
	Switzerland	40	0	114	22	0	14	8	8
	Total	1 695	0	48 064	7 153	32	810	10	3 638