

**Commercial Embryo Transfer Activity
in Europe 2021**

Sept-2022 Edited

Collated by Helene Quinton

National data collectors

Country	Collector	Comment
Austria	Friedrich FÜHRER ; Eva DACHSBERG	
Belarus	Victor MADISON ; Alexander DESHKO	
Belgium (Wallonia)	Isabelle DONNAY	
Belgium (Flanders)	Eric MULLART	
Bosnia Herzegovina		
Croatia		
Denmark	Henrik CALLESEN	
Estonia	Ants KAVAK	
Finland	Marja MIKKOLA	
France	Serge LACAZE	
Germany	Hubert CRAMER	
Greece	Foteini SAMARTZI	
Hungary	Szabolcs SIMAI	No data available this year
Ireland		
Israel	Yoel ZERON	No activity this year
Italy	Giovanna LAZZARI	
Latvia	Ilga SEMATOVICA	
Lithuania	Rasa NAINIENE	
Macedonia		
Norway	Tjerand LUNDE	
Poland	Jedrzej JASKOWSKI	
Portugal	Joao Nestor CHAGAS E SILVA	
Romania	Stefan CIORNEI	
Russian Federation	Victor MADISON ; Denis KNUROW	
Serbia	Aleksandar MILOVANOVIC	
Slovakia	Dalibor POLAK	
Slovenia	Aleksandar PLAVSIC ; Janko MRKUN	No activity this year
Spain	Daniel MARTINEZ BELLO	
Sweden	Renee BÅGE	
Switzerland	Sarah WYCK	
The Netherlands	Anna BEKER VAN WOUNDENBERG; Erik MULLART	
Turkey		
Ukraine	Victor MADISON	No data available this year
United Kingdom	Peter MAY ; Samantha MARTIN	

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	531	2%	5 316	3 733	6	0%	30	20	537	3 753	7,0
Belarus	295	34%	1 681	1 097	0		0	0	295	1 097	3,7
Belgium	13	0%	78	22	652	0%	3 677	2 407	665	2 429	3,7
Denmark	842	0%	7 808	5 489	27	0%	363	277	869	5 766	6,6
Estonia	0		0	0	12	0%	64	64	12	64	5,3
Finland	463	3%	3 893	2 637	0		0	0	463	2 637	5,7
France	4 884	27%	46 298	27 595	1 463	7%	16 213	9 463	6 347	37 058	5,8
Germany	4 045	0%	36 805	25 721	535	0%	5 451	3 494	4 580	29 215	6,4
Greece	4	100%	0	17	0		0	0	4	17	4,3
Italy	2 250	51%	23 171	15 980	120	0%	1 224	816	2 370	16 796	7,1
Latvia	4	50%	31	18	0		0	0	4	18	4,5
Lithuania	4	0%	6	3	0		0	0	4	3	0,8
Netherlands	2 627	1%	21 823	14 543	0		0	0	2 627	14 543	5,5
Norway	274	1%	1 900	1 850	20	0%	150	98	294	1 948	6,6
Poland	249	44%	2 050	1 705	17	0%	200	111	266	1 816	6,8
Portugal	78	97%	626	352	22	0%	289	117	100	469	4,7
Romania	17	24%	55	49	0		0	0	17	49	2,9
Russian Federation	316	63%	2 647	1 557	572	0%	5 225	4 305	888	5 862	6,6
Slovenia	28	25%	135	94	11	36%	40	31	39	125	3,2
Spain	233	63%	2 068	1 042	180	9%	2 585	898	413	1 940	4,7
Sweden	145	3%	1 349	858	7	0%	0	0	152	858	5,6
Switzerland	425	70%	5 615	3 159	27	0%	224	162	452	3 321	7,3
United Kingdom	244	25%	2 528	1 167	635	0%	6 903	3 435	879	4 602	5,2
Total	17 971	19%	165 883	108 688	4 306	1%	42 638	25 698	22 277	129 784	5,8

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
Belarus	83	2%	1 653	481					83	481	5,8
Finland	700	0%	6 791	976					700	976	1,4
France	1 203	1%	12 600	4 076	122	0%	1 756	766	1 325	4 842	3,7
Germany	2 189	0%	26 740	7 235	150	0%	2 425	590	2 339	7 825	3,3
Italy	111	7%	1 214	328					111	328	3,0
Netherlands	5 694	0%	56 981	13 059					5 694	13 059	2,3
Norway	13	0%	174	24					13	24	1,8
Poland	146	6%	2 190	543					146	543	3,7
Romania	10	0%	20	0					10	0	0,0
Russian Federation	13	0%	7	5					13	5	0,4
Serbia	20	6%	256	65					20	65	3,3
Spain	101	4%	1 754	616	16	0%	243	77	117	693	5,9
Switzerland	443	2%	3 936	1 378	40	1%	478	178	483	1 556	3,2
United Kingdom	207	1%	4 028	937	513	0%	4 979	1 931	720	2 868	4,0
Total	10 933	1%	118 344	29 723	328	3%	4 902	1 611	11 261	31 334	2,8

Declared bovine *In vitro* embryo production – abattoir

Country	Dairy				Beef			
	Donors	% with sexed semen	Oocytes	Embryos	Donors	% with sexed semen	Oocytes	Embryos
Greece	116	0%	1 442	225	0		0	0
Netherlands	1 975	0%	28 143	3 307	0		0	0
Slovenia	134	0%	934	42	65	0%	345	23
Spain	0				520	0%	3 851	1 720
United Kingdom	297	67%	3 340	902	439	5%	4 907	1 931
Total	2 522	8%	33 859	4 476	1 024	2%	9 103	3 674

Declared bovine embryo technologies – embryo genotyping

Country	Sexed embryos		Genotyped embryos	
	In Vivo	In Vitro	In Vivo	In Vitro
France	1 387	8	1 170	8
Germany	0	533	0	1
Netherlands	0	0	0	5 610
Spain	0	12	0	5
Total	1 387	553	1 170	5 624

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	1 451	1 863	24	0	6	6	12	0	3 362
Belarus	791	390	0	0	0	0	87	0	1 268
Belgium	2	207	364	16	493	2 644	264	36	3 974
Denmark	3 155	1 566	0	33	41	139	0	3	4 901
Estonia	0	0	0	0	0	0	7	10	7
Finland	773	1 359	95	543	13	10	53	0	2 303
France	13 704	11 068	1 113	176	2 924	3 911	525	369	33 245
Germany	11 476	14 349	0	184	896	1 930	0	0	28 651
Greece	0	0	0	0	0	0	0	0	0
Italy	6 580	1 860	0	0	120	0	0	0	8 560
Latvia	7	7	4	0	0	0	0	0	18
Lithuania	0	0	0	0	0	0	0	0	0
Netherlands	3 055	9 301	0	0	0	0	0	0	12 356
Norway	20	1 737	50	0	20	98	30	20	1 955
Poland	1 029	357	55	0	43	0	19	0	1 503
Portugal	110	146	4	0	38	31	24	0	353
Romania	46	3	0	0	0	0	6	0	55
Russian Federation	113	1 434	259	0	0	4 501	38	0	6 345
Serbia	0	0	0	0	0	0	72	0	72
Slovenia	30	55	9	0	1	13	0	0	108
Spain	475	463	103	55	140	984	201	480	2 366
Sweden	648	1 093	0	0	0	0	0	0	1 741
Switzerland	773	2 650	450	81	34	25	0	0	3 932
United Kingdom	556	389	340	0	835	1 231	950	168	4 301
Grand Total	44 794	50 297	2 870	1 088	5 604	15 523	2 288	1 086	121 376

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	
Belarus	211	34	0	0	4	9	258
Belgium	0	24	0	0	0	0	24
Finland	0	765	0	273	0	0	765
France	1 967	1 575	151	53	0	0	3 693
Germany	2 658	4 265	0	0	0	0	6 923
Netherlands	4 462	3 477	0	0	0	0	7 939
Norway	0	110	30	0	0	0	140
Poland	112	145	0	0	0	0	257
Portugal	0	0	44	0	0	0	44
Russian Federation	0	24	0	0	0	0	24
Serbia	0	7	0	0	0	0	7
Spain	183	244	0	0	7	194	628
Switzerland	0	0	0	909	0	0	0
United Kingdom	324	906	28	123	0	15	1 273
Grand total	9 917	11 576	253	1 358	11	218	21 975

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	Greece	3	13	0	0	0	0
	Romania	2	27	27	0	0	0
	Russian Federation	0	0	0	0	1 878	0
	Serbia	4	32	0	6	0	0
	Spain	33	320	0	60	0	80
	United Kingdom			26 600	600		568
	Total		42	392	26 627	666	1 878
Goat	France	0	0	0	3	0	0
	Spain	48	648	0	200	0	200
	Total	48	648	0	203	0	200
Horse	Estonia	10	8	8	0	0	0
	France	1 156	624	846	0	0	0
	Poland	0	0	54	0	0	0
	Portugal	216	124	0	0	0	0
	Russian Federation	16	12	11	0	0	0
	Spain	4	4	0	0	0	0
	Sweden	33	0	0	0	0	0
	Total	1 435	772	919	0	0	0
Rabbit	Romania	37	148	148	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	Spain	15	3	384	180	0	0	0	0
Goat		20	5	504	268	0	0	0	0
Horse	Estonia	0	0	0	0	0	0	7	0
	France	0	0	0	0	0	45	0	0
	Italy	3 440	0	45 836	6 764	7	727	0	3 498
	Poland	0	0	0	0	0	0	34	0
	Portugal	6	0	45	0	0	0	0	0
	Sweden	0	0	0	0	23	0	0	0
	Switzerland	41	0	116	11	0	0	0	3
	Total	3 487	0	45 997	6 775	30	772	41	3 501