

Statistic outline of French genetic organisation 2020

Livestock

Species	Total number	% registred	Animals in performance recording	Number of inseminated females
Dairy cows	3 654 000	87 %	2 353 384	2 277 792 (C)
				847 898 (H)
Beef cows	3 826 000	39 %	1 015 864	398 212 (C)
				209 825 (H)
Dairy sheep*	1 661 000	54 %	902 411	511 364
Meat sheep	3 668 000	8 %	310 022	123 300
Goats	885 000	20 %	412 000	73 747

*2020 Data

Sources : Institut de l'Elevage, Alice, FCEL, ANIO, CNBL, BDNI, SSP, CAPGENES

C: Cows - H : Heifer

The French genetic organisation for ruminants is characterized by :

- involvement of a large number of breeders (approximately 52 000) in the selection of the various breeds,
- very wide bases of selection (registration and performance recording or a great number of animals),
- an intensive progeny testing of AI males, which is widely taken over by genomic evaluation,
- a high genetic level,
- a significant genetic progress in all breeds and species.

Within the framework of a system of Quality Management, the breeders organisations combine their means and skills to provide farmers reliable results to lead the selection of their breeds.

NB :

- Except indications, the figures refer to the calendar year 2019.

- Raw performances being obtained in different environments, direct comparison between breeds should be avoided.



Dairy cattle

Breeds	Total number of cows (2019)	Recorded cows (2019)	Bulls			AI by bulls species (2019)
			Génotyped (Valogène)	Progeny tested	Makeded after evaluation	
Abondance	44 441	24 184	224	29	19	38 356
Brune	24 892	16 402	148	0	7	49 632
Jersiaise	20 655	9 479	-	-	-	41 692
Montbéliarde	606 100	422 238	4 260	28	104	673 388
Normande	296 732	180 062	1 864	0	67	433 965
Pie-rouge	13 999	9 413	184	0	10	40 663
Prim'holstein	2 332 384	1 530 356	8 437	0	113	3 353 886
Simmental française	25 360	15 796	131	0	9	45 876
Tarentaise	13 772	8 602	186	21	17	14 905

Sources : Institut de l'Elevage, Alice, Valogène, FCEL, BDNI

AI: animal insemination

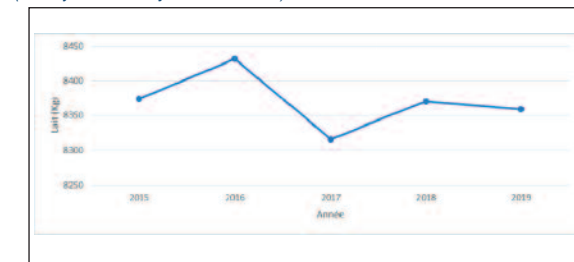
Milk recording 2019 (305 days lactations adjusted to adult level)

Breeds	Qualified lactations	Lactation length (days)	Milk yield (kg)	Fat (kg)	Fat (%)	Protein yield (kg)	Protein (%)	Crude protein (%)
Abondance	24 184	295	5 619	203	36,1	184	32,7	34,4
Brune	16 402	341	7 153	297	41,5	242	33,8	35,6
Jersiaise	9 479	328	5 000	275	55,0	190	38,0	40,0
Montbéliarde	422 238	313	7 286	281	38,5	239	32,8	34,5
Normande	180 062	329	6 669	279	41,9	229	34,3	36,1
Pie-rouge	9 413	331	7 875	333	42,3	260	33,0	34,8
Prim'holstein	1 530 356	344	9 048	356	39,4	285	31,5	33,1
Simmental française	15 796	310	6 554	262	39,9	219	33,4	35,2
Tarentaise	8 602	277	4 561	167	36,7	147	32,2	33,9
Toutes races	2 334 919	335	8 359	330	39,5	267	31,9	33,6

Sources : Institut de l'Elevage, FCEL

Evolution of the average production (305 days lactations adjusted to adult level)

(305 days lactations adjusted to adult level)



Sources : Institut de l'Elevage, FCEL

Genetic and phenotypic trend (recorded cows)

Breeds	Progress from 2009 to 2019 (10 years)	Milk (kg)	Fat (%)	Protein (%)
Abondance	Phenotypic	+ 256	- 0,4	=
	Genetic	+ 307	- 0,3	=
Brune	Phenotypic	+ 442	+ 0,3	+ 0,3
	Genetic	+ 428	+ 0,2	+ 0,6
Jersiaise**	Phenotypic	+ 27	+ 0,2	+ 0,3
	Genetic			
Montbéliarde	Phenotypic	+ 582	=	+ 0,4
	Genetic	+ 574	=	+ 0,6
Normande	Phenotypic	+ 440	- 0,3	+ 0,4
	Genetic	+ 612	+ 0,1	+ 0,7
Pie-rouge*	Phenotypic	+ 606	+ 0,5	+ 0,7
	Genetic			
Prim-holstein	Phenotypic	+ 332	+ 0,3	+ 0,2
	Genetic	+ 646	- 0,4	+ 0,4
Simmental française	Phenotypic	+ 563	+ 0,3	+ 0,5
	Genetic	+ 515	+ 0,1	+ 0,4
Tarentaise	Phenotypic	+ 186	+ 1,3	+ 0,4
	Genetic	+ 397	+ 0,5	+ 0,2

Sources : Institut de l'Elevage, FCEL, INRAE

* Pie-rouges and Prim'Holstein species are gathered together in the genetic reports

** Genetic level of Jersiaises can't be estimated

Beef cattle

Breeds	Total number of cows (2019)	Recorded cows (2019)	Bulls			AI (2019)	
			Genomic breeding value *	Performance tested	Progeny tested *	Pure breed	Crossing
Aubrac	222 370	88 859	-	138	-	18 591	5 270
Bazadaise	3 614	2 256	-	-	-	1 047	3 020
Blanc bleu	11 086	3 239	-	-	-	7 358	626 536
Blonde d'aquitaine	455 590	152 961	2 027	323	20	139 505	34 255
Charolaise	1 358 039	367 827	19 076	621	77	326 644	352 068
Gasconne des Pyrénées	17 749	8 789	-	79	-	2 206	708
Limousine	1 089 471	281 269	6 931	783	22	123 968	210 402
Parthenaise	51 339	27 097	-	97	-	19 639	8 508
Rouge des Prés	32 809	17 970	-	70	-	8 776	1 094
Salers	216 409	58 846	-	95	-	12 276	4 393
Total	3 458 476	1 009 113	28 034	2 206	119	660 010	1 246 254

Sources : Institut de l'Elevage, Alice, FCEL, SCEES, BDNI

* 2019 campaign data

Beef recording

Breeds	Weight 210 days (kg) (calves born during campaign 2019)		Weight at 1 year (kg) (calves born during campaign 2016)	
	Males	Females	Males	Females
Aubrac	271	233	410	331
Bazadaise	250	235	350	315
Blanc bleu	259	249	426	385
Blonde d'Aquitaine	300	277	521	391
Charolaise	300	266	493	379
Gasconne des Pyrénées	254	321	336	306
Limousine	289	262	481	372
Parthenaise	278	248	492	357
Rouge des Prés	294	271	510	376
Salers	270	239	450	340

Sources : Institut de l'Elevage

Dairy sheep

Breeds	Total number of ewes 2019	Recorded ewes 2019	Rams			AI 2019	
			Genotyped	Performance tested 2019	Progeny tested 2019		
Corse	85 000	35 103	351	408	17	8 591	
Lacaune	1 140 000	700 816	3 121	2 976	319	419 653	
Races Pyrénéennes	Basco-béarnaise	81 000	36 062	223	223	66	17 037
	Manech tête noire	74 000	18 302	110	110	37	5 800
	Manech tête rousse	281 000	112 128	647	647	175	60 283
Total	1 661 000	902 411	4 452	4 364	614	511 364	

Sources : Institut de l'Élevage, ANIO, CNBL, SIEOL

Dairy sheep recording 2019

(official milk recording)

Breeds	Number of recorded ewes	Lactation length	Milk yield (liter)	
Corse	17 154	186	147	
Lacaune	167 324	173	330	
Races Pyrénéennes	Basco-béarnaise	21 795	151	218
	Manech tête noire	7 708	151	175
	Manech tête rousse	64 411	162	246

Sources : Institut de l'Élevage, CNBL, SIEOL

Meat sheep

Breeds	Total number of ewes (2019)	Recorded ewes (2019)	Performance tested rams (2019)	Progeny tested rams	AI (2019)
Specialized meat breeds	955 400	80 755	1 651	87 (boucher)	144 006
Hardy meat breeds	2 387 000	201 775	3 532	52 (boucher) 58 (maternel)	113 162
Meats cross-breeds	325 000	27 492	-	-	-
Total	3 668 000	310 022	5 184	145	257 168

Specialized meat breeds: Barrichon du Cher, Charmoise, Charollaise, Ile de France, Rouge de l'ouest, Suffolk, Texel, Vendéenne
Hardy meat breeds: Blanc du Massif Central, Causse du Lot, Lacaune, Limousine, Mérinos d'Arles, Noire du Velay, Préalpes du sud, Romane, Tarasconnaise

Sources : Institut de l'Élevage, ANIO

Results for 10 main breeds (2019)

Breeds	Number of lambing	Brebis adulte					
		Prolificity ewes natural oestrus	Prolificity ewes induced oestrus	30 d. Std weight males simples (kg)	30 d. Std weight males twins (kg)	70 d. Std weight males simples (kg)	70 d. Std weight males twins (kg)
Blanc Massif Central	25 150	1,58	1,72	13,3	11,4	28,3	25,0
Causse du Lot	23 736	1,62	1,75	12,1	10,3	-	-
Ile de France	18 756	1,75	1,88	14,7	12,5	29,3	26,2
Lacaune viande	16 035	1,92	2,04	13,5	11,5	28,0	24,0
Limousine	8 691	1,39	1,55	12,5	10,2	-	-
Mouton Charollais	9 695	1,68	1,90	15,9	13,4	29,5	25,9
Mérinos d'Arles	13 973	1,24	-	12,0	10,0	-	-
Mouton Vendéen	11 459	1,76	1,87	13,5	11,2	27,1	23,2
Rava	9 131	1,58	-	12,6	10,4	-	-
Romane	30 632	2,18	2,12	13,5	11,5	26,8	23,0

Sources : Institut de l'Élevage

Goats

Breeds	Total number of goats 2019		Progeny tested bucks 2019			AI *
	Total number	Recorded	Genotyped Série R	Recorded in Capgènes Série R	Published Série P	
Alpine	505 000	235 000	225	88	40	45 870
Saanen	330 000	155 000	147	63	70	22 826
Autres	50 000	22 000		6		51
Total	885 000	412 000	372	157	110	73 747

Sources : Institut de l'Élevage, FCEL, Capgènes

* These figures take into account AI data performed over the period October 01, 2018 to September 30, 2019 (source Capgènes)

Results of goat milk recording 2019

Breeds	Recorded goats	Lactation length (days)	Milk yield (kg)	Fat (kg)	Fat (%)	Protein (kg)	Protein (%)
Alpine	150 758	315	949	36,2	38,1	31,9	33,6
Saanen	90 675	326	999	36,4	36,5	32,5	32,6

Sources : Institut de l'Élevage, FCEL



Crédits photos : Beta Pictoris - La Chèvre - Pâtre - P. Pulvrey - D.R.
 Réf. : 002120003



Statistic outline of French genetic organisation 2020



Published in February 2021 by
 France Génétique Elevage
 149 rue de Bercy - 75595 PARIS Cedex 12
 Tél 33 (0) 1 40 04 52 02
 france-genetique-elevage@france-genetique-elevage.fr
 www.france-genetique-elevage.org
 Realization : Véronique Frappreau

