

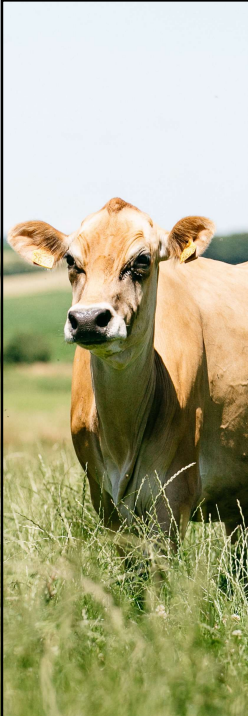


Experiences having a joint Nordic and French genetic Evaluation for Jersey – Olivier Bulot (BGS)



www.lajersiaise.fr

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Summary

- ✓ What is Jersiaise France?
- ✓ Why joining Nordic Jersey evaluation ?
- ✓ Main steps of the project
- ✓ Results
- ✓ Perspectives

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Organisation of Jersiaise France



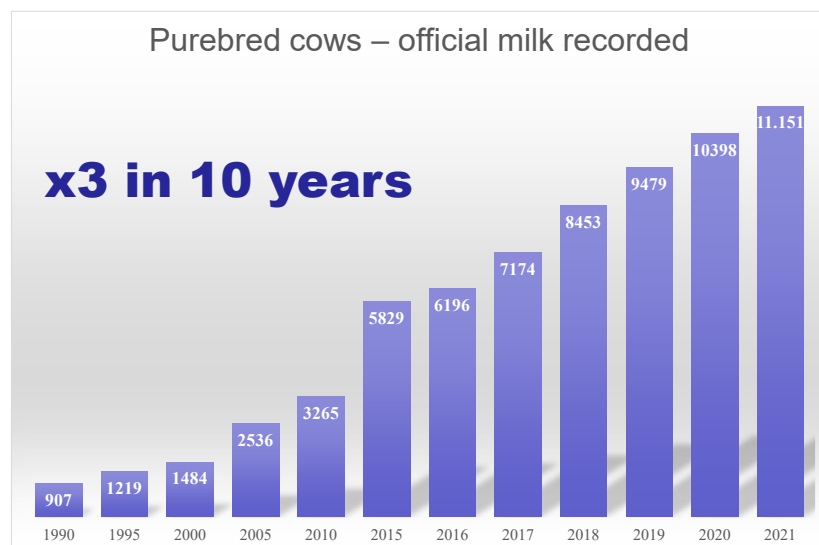
- ✓ **Merged with Brown Swiss in 2008** (Union of coops BGS)
- ✓ **Jersiaise France, an autonomous section**
- ✓ **JF board with 12 members**
- ✓ **Strong partnership with Evolution/Innoval**
 - ✓ **AI program : cooperation between Viking/Evolution**
 - ✓ **Bull's selection committee**
 - ✓ **Genetic evaluation – agreement with NAV (2019)**



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An incredible growth !

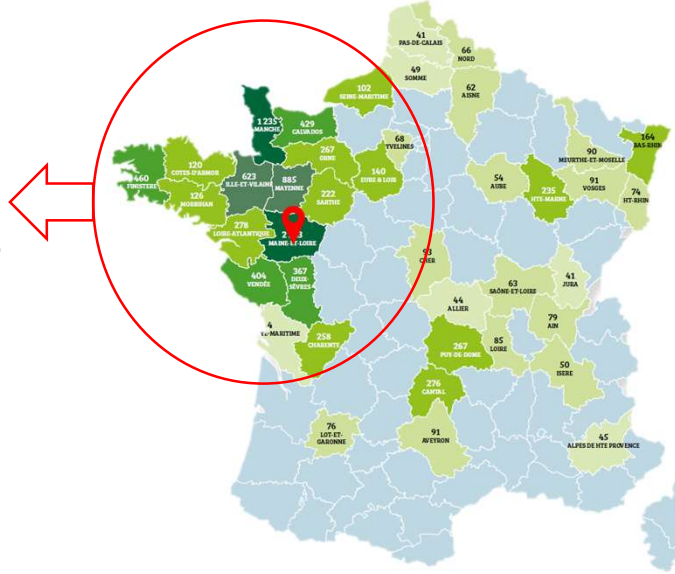


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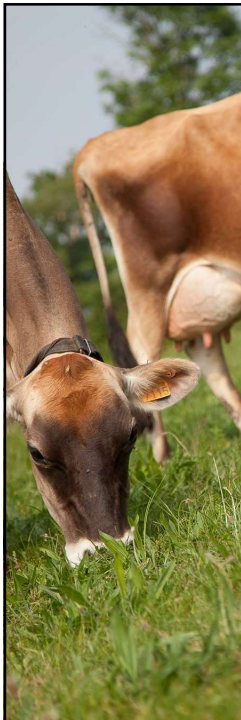


Location and Statistics

70% of
Jerseys
in France



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2021 official records – breed averages

Breed	Nb of cows	Days	Milk	Fat	%F	Prot	%P (true)	F+P
PRIM'HOLSTEIN	1 323 367	353	9 704	395	40,7	315	32,5	710
MONTBELIARDE	392 247	324	7 719	304	39,3	258	33,5	562
NORMANDE	154 455	339	7 011	300	42,7	246	35,0	545
BROWN SWISS	16 098	353	7 850	334	42,6	273	34,8	607
JERSEY	11 151	336	5 302	299	56,3	206	38,9	505
FLECKVIEH	15 556	319	6 755	274	40,6	230	34,0	504
All breeds	2 064 131	344	8 887	361	40,6	292	32,9	653

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Why joining NAV Jersey evaluation?

- ✓ Old fashioned French Jersey evaluation
- ✓ Growing expectations from breeders
- ✓ Heavy use of Danish genetics (semen, cattle import)
- ✓ Already using Danish classification software (2019)
- ✓ New EU regulation for breed societies

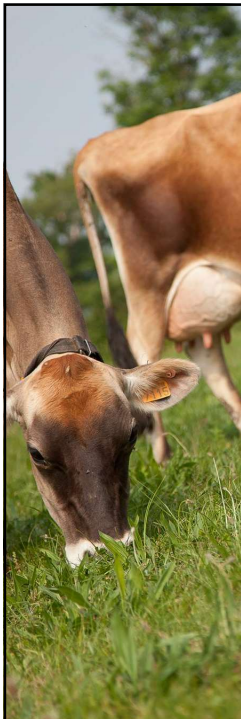
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Agreement signed March 2019

- ✓ 3 partners : BGS – NAV – GENEVAL
- ✓ Investment : shared between BGS and INNOVAL
- ✓ Routine : carried out by BGS, breed society
- ✓ 6 group of traits :
 - ✓ Production
 - ✓ Fertility
 - ✓ Calving
 - ✓ Udder health
 - ✓ Longevity
 - ✓ Conformation

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Main steps of the project

- ✓ Development of extraction procedures at Geneval to provide French phenotypes and pedigrees to NAV : August 2019
- ✓ Tests runs developped by NAV to verify the robustness of evaluation with inclusion of French data
- ✓ Officiel runs launch : November 2020

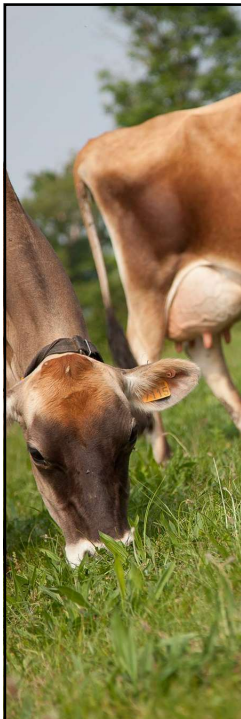
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Results

	Old french evaluation	Joined NAV evaluation
Total Merit Index		✓
Milk+Fat+Protein	✓	✓
Persistency		✓
Feed Efficiency		✓
SCS	✓	✓
Mastitis		✓
Fertility		✓
Longevity	✓	✓
Calving		✓
Conformation	✓	✓
Hoof Health		✓
General Health		✓
Young Stock Survival		✓
Milking speed/temperament		✓

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Results

- ✓ 38 440 active Jersey females evaluated
- ✓ 6 852 Jersey females genotyped
- ✓ 12 runs per year : including 5 major ones
- ✓ High ranking animals
 - ✓ 82 females over 20 pts of NTM
 - ✓ 6 males joining AI line up

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Top NTM genotyped females

Name	Birth	Sire	MGS	NTM	ELEVEUR
SKY	26/08/2021	VJ HAIKO	VJ LASKY	31	INNNOVAL STATION
	02/06/2021	VJ HAIKO	VJ LASKY	28	GAEC D'ETOUPEVILLE
2464	13/09/2022	VJ LUXPLUS	VJ GUTZ	28	GAEC D'ETOUPEVILLE
TARTIFLETT	01/08/2022	VJ LUXPLUS	VJ GUTZ	27	INNNOVAL STATION
TRAME	01/06/2022	VJ GUTZ	VJ QUIT	27	GAEC LA LIMONIERE
2332	01/04/2022	VJ HIGHLAN	VJ GARANT	27	M LE COUTOUR
TRUFFE	16/06/2022	VJ HAPPENS	VJ HODIA	27	GAEC DES TROIS SILLONS
TARTINE	11/02/2022	VJ JOJO	VJ HUZAR	27	INNNOVAL STATION
THUYA	14/07/2022	VJ HAPPENS	VJ GUTZ	27	GAEC FOURNEL MARNAS
SYDNEY	17/11/2021	VJ JOJO	VJ LINK	26	INNNOVAL STATION
	14/09/2022	VJ JOJO	VJ NIBALI	26	M LECHARTIER
THEATRE	13/06/2022	VJ HAPPENS	VJ HODIA	26	GAEC DES TROIS SILLONS
PERDRIX	26/11/2019	VJ NIBALI	VJ HIHL	25	SCEA GABORIT
TAUPE	14/06/2022	VJ HAPPENS	VJ HODIA	25	GAEC DES TROIS SILLONS
TORTUE	16/06/2022	VJ HAPPENS	VJ HODIA	25	GAEC DES TROIS SILLONS
TANIA	15/07/2022	VJ HAPPENS	VJ GUTZ	25	GAEC FOURNEL MARNAS
TONKA	07/08/2022	VJ HIGHLAN	VJ QUIT	24	GAEC DE LA JUTIERE
TEQUILA	03/06/2022	VJ GIGA	VJ LINK	24	SCEA GABORIT
SAGY	19/09/2021	VJ LANDO	VJ GISLEV	24	INNNOVAL STATION
	21/01/2021	VJ SORT	VJ LASKY	24	GAEC D'ETOUPEVILLE
TAMAGY AR	18/07/2022	VJ JOJO	VJ GUTZ	23	EARL PASSION&BONHEUR DES HOLSTYSTAR
GOVAL TAL	02/04/2022	VJ IAKE	VJ GUTZ	23	EARL BENAITEAU JM
GOLD TRAVE	01/07/2022	VJ DOMINO	VJ GUTZ	23	EARL BENAITEAU JM
	25/07/2022	VJ JOJO	VJ MAGNUM	23	M LECHARTIER
2290	31/01/2022	VJ HIGHLAN	VJ GARANT	23	GAEC D'ETOUPEVILLE
TESLA	03/09/2022	VJ DANDI	VJ GISLEV	23	GAEC DES TROIS SILLONS
TOULOUSE	17/09/2022	VJ LUXPLUS	VJ DANDI	23	GAEC DE LA GUESIERE
TAFFY	07/10/2022	VJ DAN P	VJ LASTER	23	GAEC DU CHAMP DE L EPINE
TWIST	16/02/2022	VJ JOJO	VJ HUZAR	23	GAEC ELEVAGE LOUXOR
TOLLIE	06/06/2022	VJ RIBE	VJ NIBALI	23	GAEC BROUSSEAU LA POUPARDIERE
TAIGA	29/06/2022	VJ GIGA	VJ LINK	23	GAEC DE ROSEN-GUTH
	24/02/2021	VJ LASTER	VJ WILLEM	23	GAEC ISOPE LAMBERT
7847RANDER	23/02/2020	VJ LAST	VJ LIBERO	23	GAEC DE ROSEN-GUTH

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First French bulls in Viking Genetics program

International ID	Name	Birth year	NTM	Yield	Fertility	Udder health	Frame	Feet & legs	Udder	Longevity	Saved feed
FRA000002946403974	VJ Storer	2021	30	116	110	124	93	109	102	117	104
FRA000004475373054	VJ Bell	2020	21	111	105	111	104	109	108	105	111
FRA000007262956014	VJ Mads	2020	16	109	109	98	101	118	108	107	98
FRA000005643261727	VJ Utik	2020	16	112	97	112	113	104	111	102	103
FRA000005625947835	VJ MBA PP	2022	14	104	119	104	100	125	107	106	98
FRA000005035762269	VJ Teuns P	2022	14	107	93	116	110	100	118	103	92

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Genetic trends

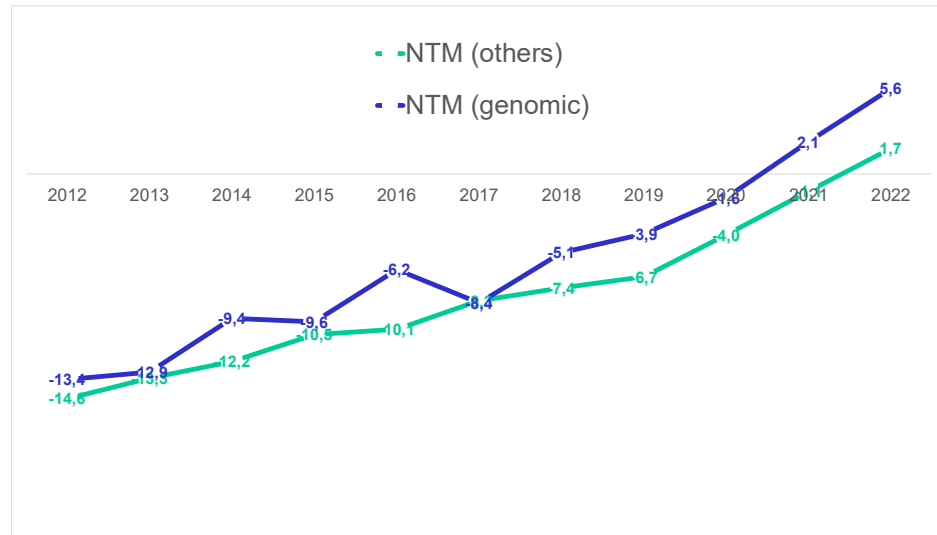
Year	Number	NTM	Milk	%P	%F	Fertility	Udder Health	Frame	F&L	Udder
2012	303	-14,5	93,0	95,7	100,3	97,3	97,6	96,0	100,4	94,5
2013	467	-13,3	92,6	97,1	101,1	97,6	98,2	96,3	99,7	95,0
2014	704	-12,1	93,9	97,0	100,6	97,8	97,9	96,3	99,5	95,4
2015	1372	-10,4	95,5	97,0	100,1	97,3	97,5	98,3	100,2	96,1
2016	1907	-9,9	96,4	96,0	99,1	97,8	98,2	100,3	100,4	96,7
2017	2668	-8,3	96,9	96,6	99,2	97,6	99,1	101,9	100,6	99,0
2018	3455	-7,1	96,9	97,2	98,7	99,8	99,3	100,6	101,9	100,2
2019	4426	-6,2	97,9	97,2	98,0	100,2	99,3	102,3	101,8	101,8
2020	5093	-3,4	99,8	96,9	97,8	100,9	100,2	104,5	102,5	103,3
2021	5709	-0,3	101,0	98,0	98,2	100,6	101,2	104,9	103,5	103,1
2022	5339	2,4	102,1	98,6	98,4	100,4	102,2	105,1	103,5	103,4

(active females – dec 2022) – by birth year

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Genetic trends



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Perspectives

- ✓ Develop services for French breeders, using genetic evaluations (mating programs, dashboards, ...)
- ✓ More countries interested to join:
 - ✓ DEU
 - ✓ BEL
 - ✓ ITA ?

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Take home messages

- ✓ International cooperation is a key of success for smaller populations
- ✓ Get the most out of what we have!
- ✓ It needs a strong data collection system
- ✓ Harmonized traits helps data exchange and sharing
- ✓ Identify the right partners to move forward

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THANKS FOR YOUR ATTENTION !

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