

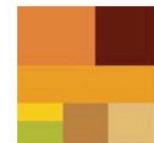


Statistics

**Oilseeds &
Protein-rich Plants**

2018

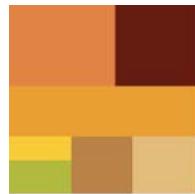
2019 EDITION



Interbranch association for vegetable oils and proteins

STATISTICS ON OILSEEDS AND PROTEIN-RICH PLANTS 2018

2019 Edition



Terres Univia

Interbranch association for vegetable oils and proteins

**FROM PRODUCTION
TO CONSUMPTION
FRANCE - EUROPE - WORLD**

OILSEEDS

FRANCE

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WORLD

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FRANCE

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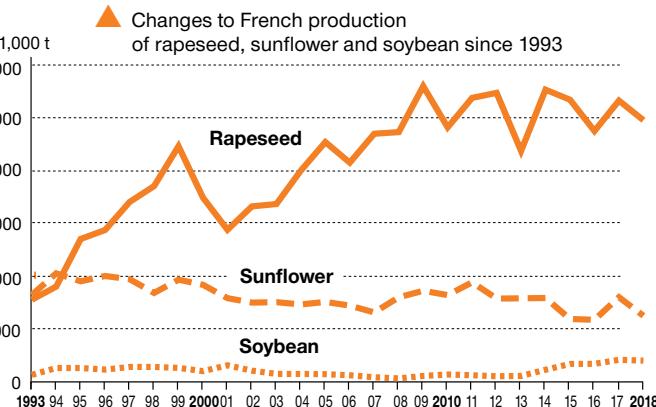
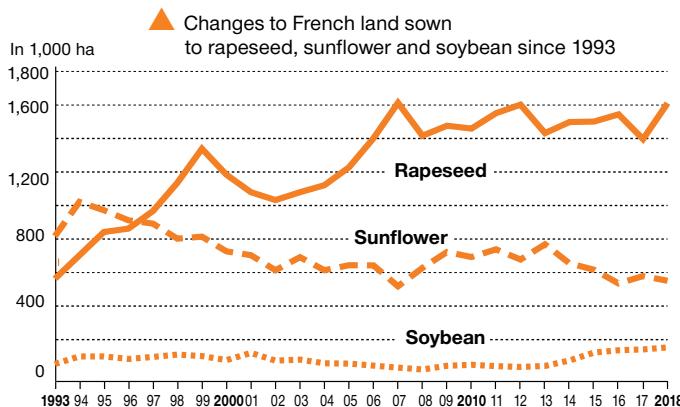
WORLD

▲ Protein-rich plants	
Production of dried pea, faba bean and field bean	52

	1993	2003	2013	2014	2015	2016	2017	2018
RAPESEED								
Land area	565	1,083	1,437	1,503	1,506	1,549	1,401	1,616
Yield	27.4	31.1	30.4	36.8	35.4	30.6	37.9	30.6
Production	1,550	3,361	4,366	5,524	5,334	4,742	5,317	4,946
SUNFLOWER								
Land area	820	694	771	657	619	537	581	553
Yield	20.0	21.7	20.5	24.1	19.2	21.8	27.5	22.6
Production	1,640	1,505	1,578	1,584	1,187	1,172	1,599	1,248
SOYBEAN								
Land area	55	81	43	76	123	137	142	154
Yield	23.6	18.4	25.6	30.0	27.5	24.7	29.3	26.0
Production	130	149	110	227	337	339	415	400
Total 3 grains								
Land area	1,440	1,858	2,251	2,236	2,248	2,223	2,124	2,323
Production	3,320	5,015	6,054	7,335	6,858	6,253	7,331	6,594

- Per harvest year
- Production: in 1,000 tonnes
- Land area: in 1,000 ha
- Yield: in quintals/ha

Sources: Eurostat (until 1999) and SCEES/SSP

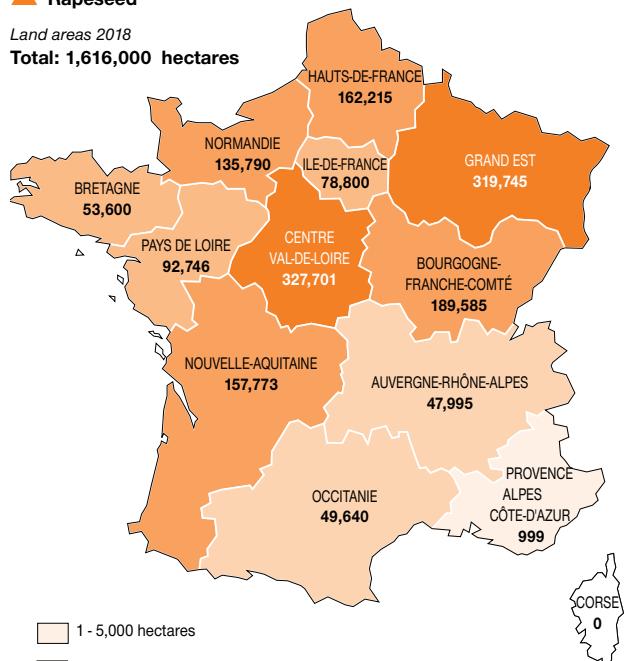


FRANCE

Maps showing distribution of land areas in 2018

▲ Rapeseed

Land areas 2018
Total: 1,616,000 hectares



1 - 5,000 hectares

5,001 - 50,000 hectares

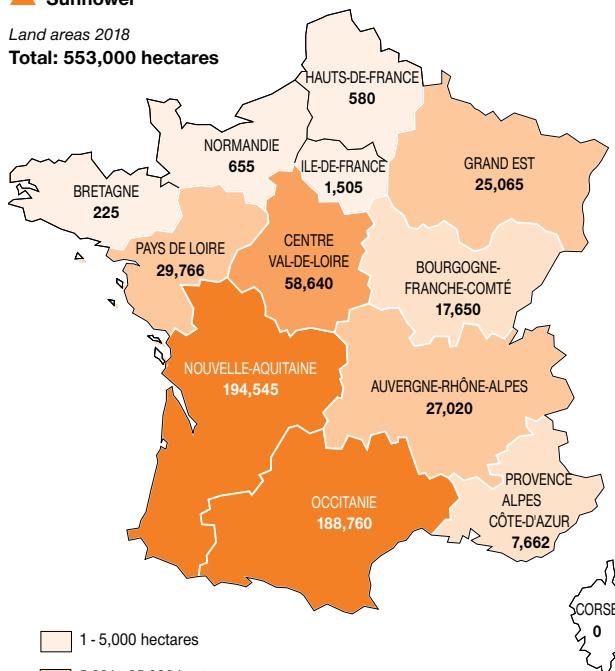
50,001 - 100,000 hectares

100,001 - 200,000 hectares

+ de 200,000 hectares

▲ Sunflower

Land areas 2018
Total: 553,000 hectares



1 - 5,000 hectares

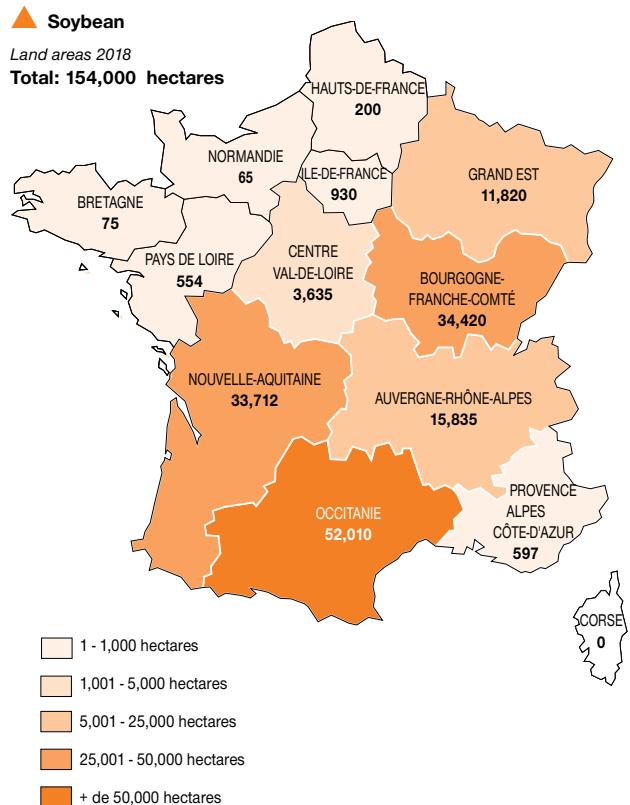
5,001 - 25,000 hectares

25,001 - 50,000 hectares

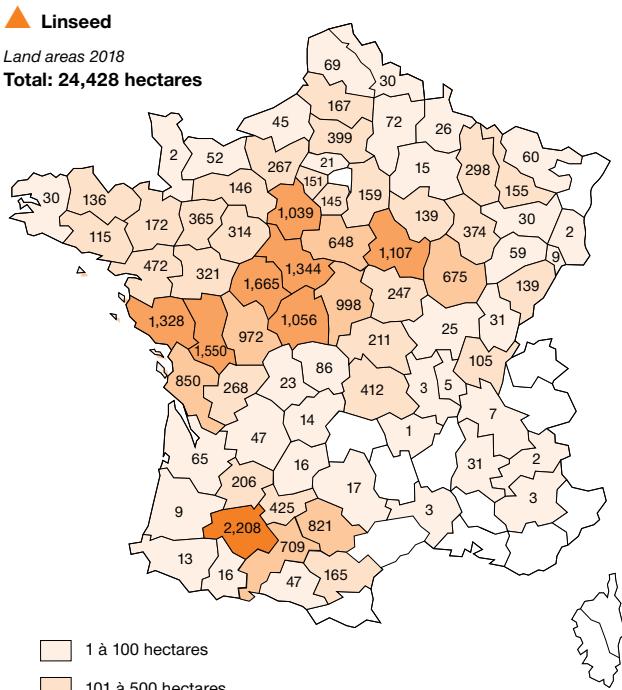
50,001 - 100,000 hectares

+ de 100,000 hectares

Source: Agreste - SSP



Source: Agreste - SSP



Source: CAP declaration

	2003	2013	2014	2015	2016	2017	2018
RAPESEED	336	1,549	2,169	6,362	7,547	5,864	16,757
Incl. certified organic*	224	936	1,138	1,770	2,019	2,654	4,024
Incl. conversions**	112	613	1,031	4,592	5,528	3,210	12,733
SUNFLOWER	8,916	15,855	15,329	18,745	18,583	23,349	35,166
Incl. certifie organic *	6,075	13,409	12,225	10,338	10,695	16,249	24,182
Incl. conversions**	2,841	2,446	3,104	8,407	7,888	7,100	10,984
SOYBEAN	8,830	10,361	12,994	20,323	24,615	24,812	34,648
Incl. certified organic*	5,699	9,641	11,719	14,182	13,924	17,686	25,140
Incl. conversions**	3,131	720	1,275	6,141	10,691	7,126	9,508
Total 3 grains	18,082	27,765	30,492	45,430	50745	54,025	86,571
Incl. certified organic*	11,998	23,986	25,082	26,290	26,638	36,589	53,346
Incl. conversions**	6,084	3,779	5,410	19,140	24,107	17,436	33,225

• Land areas in hectares

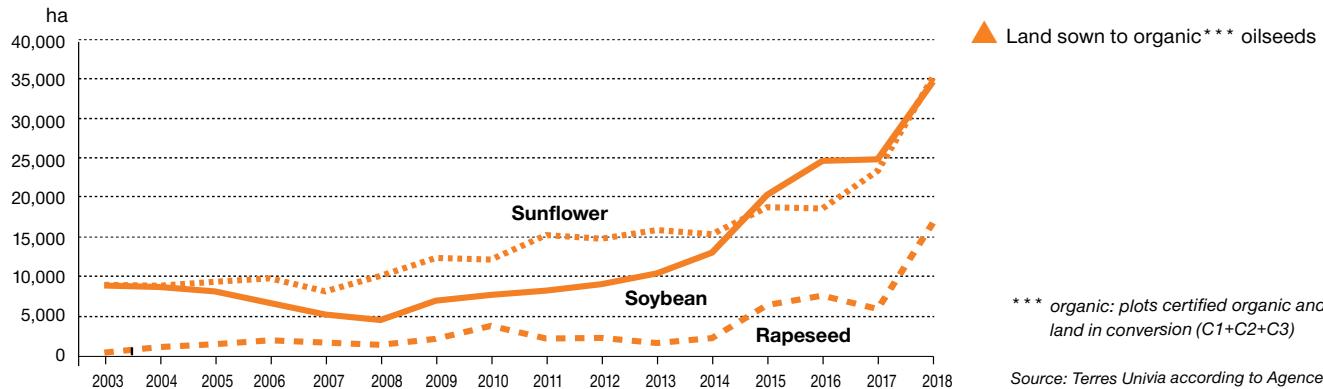
*Plots certified as organic (managed organically for more than two years)

**Land areas in conversion = C1 + C2.

C2: plots in second year of conversion (second year of organic management): can be used for livestock feeds.

C1: plots in first year of conversion; destined for the conventional sector!

Source: Agence Bio according to data from certifying agencies



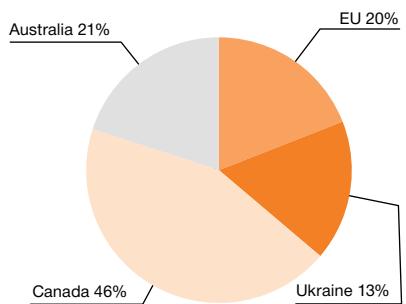
*** organic: plots certified organic and land in conversion (C1+C2+C3)

	2013	2014	2015	2016	2017	2018
RAPESEED						
Import	1,104	936	1,093	1,026	1,177	936
Export	1,317	1,357	1,456	1,484	1,401	1,372
Balance (export-import)	213	421	363	458	224	436
SUNFLOWER						
Import	423	360	252	538	336	276
Export	422	460	403	303	351	551
Balance (export-import)	-1	100	151	-235	15	275
SOYBEAN						
Import	527	700	774	1,082	573	697
Export	20	29	66	109	88	144
Balance (export-import)	-507	-671	-708	-973	-485	-553

- Calendar year
- In 1,000 tonnes

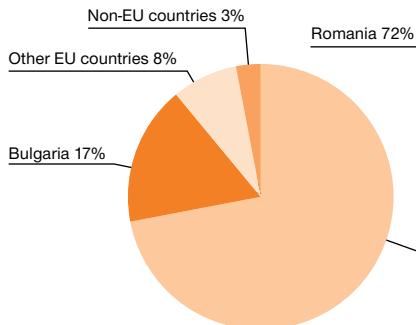
Source: Customs

▲ Origin of RAPSEED imports 2017/18
Source: Customs



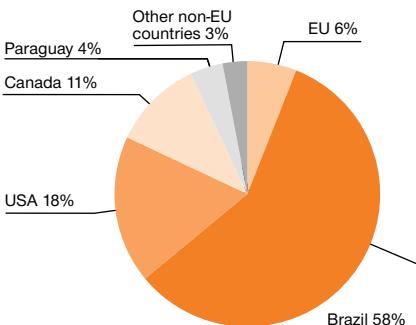
Total: 872 KT

▲ Origin of SUNFLOWER imports 2017/18
Source: Customs



Total: 451 KT

▲ Origin of SOYBEAN imports 2017/18
Source: Customs



Total: 623 KT

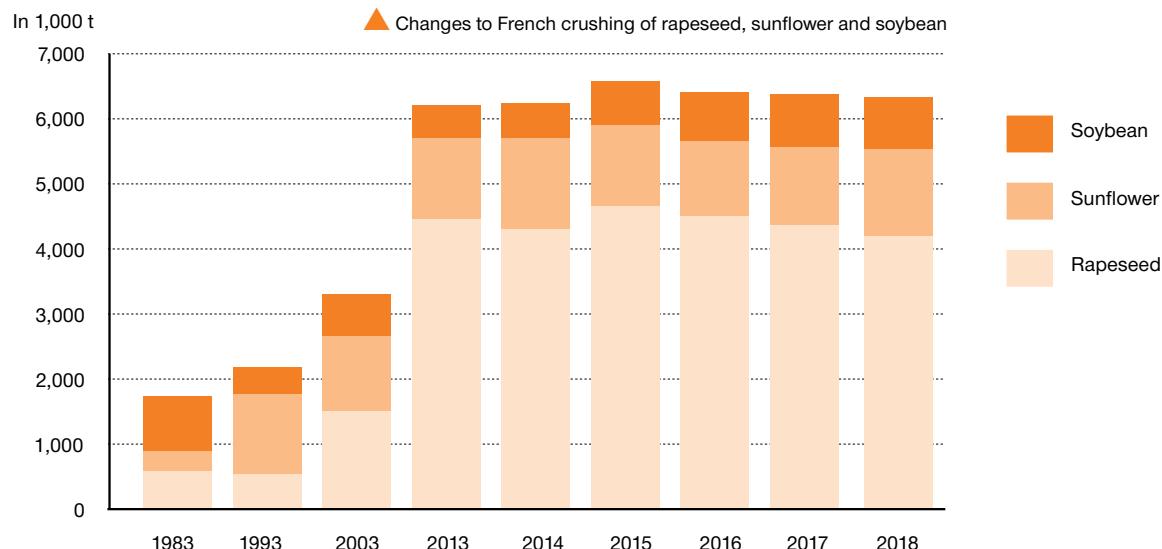
	1983	1993	2003	2013	2014	2015	2016	2017	2018
RAPESEED	578	531	1,497	4,451	4,308	4,653	4,507	4,361	4,144
SUNFLOWER	316	1,245	1,155	1,249	1,394	1,246	1,142	1,201	1,381
SOYBEAN	836	407	657	513	545	683	733	794*	779*
Total 3 grains	1,730	2,183	3,309	6,213	6,247	6,582	6,382	6,356	6,304

- Calendar year

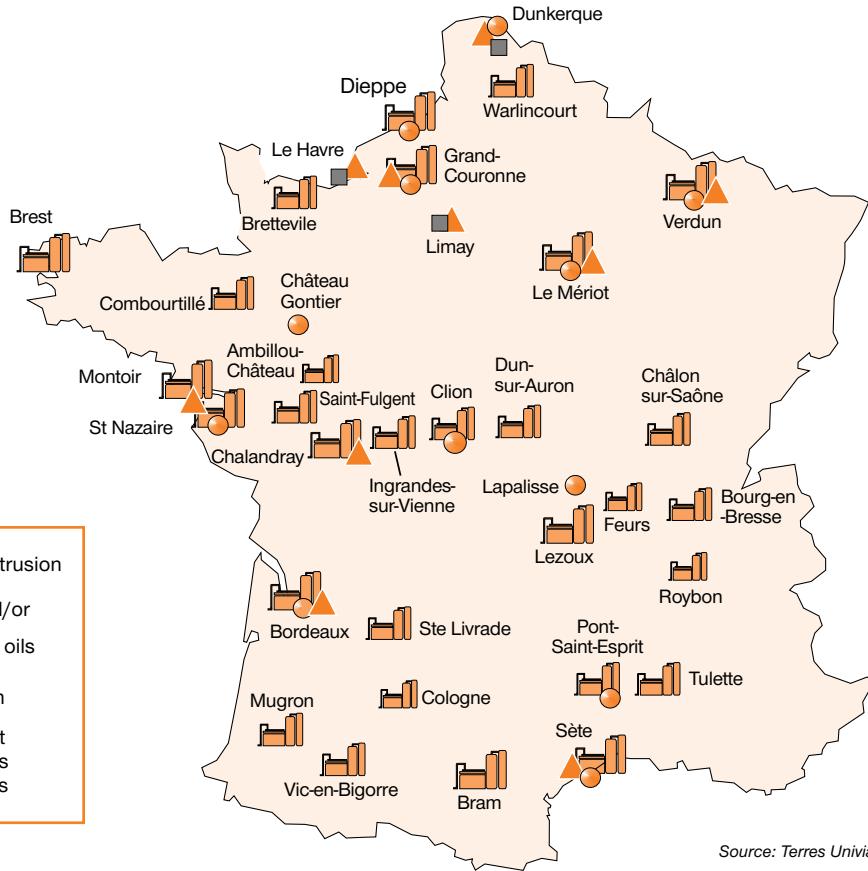
- In 1,000 tonnes

* Provisional figure from Oil World

Source: Huilleries et Margarineries de France



Sites of crushing, extrusion, refining, packaging, esterification and pretreatment in 2018



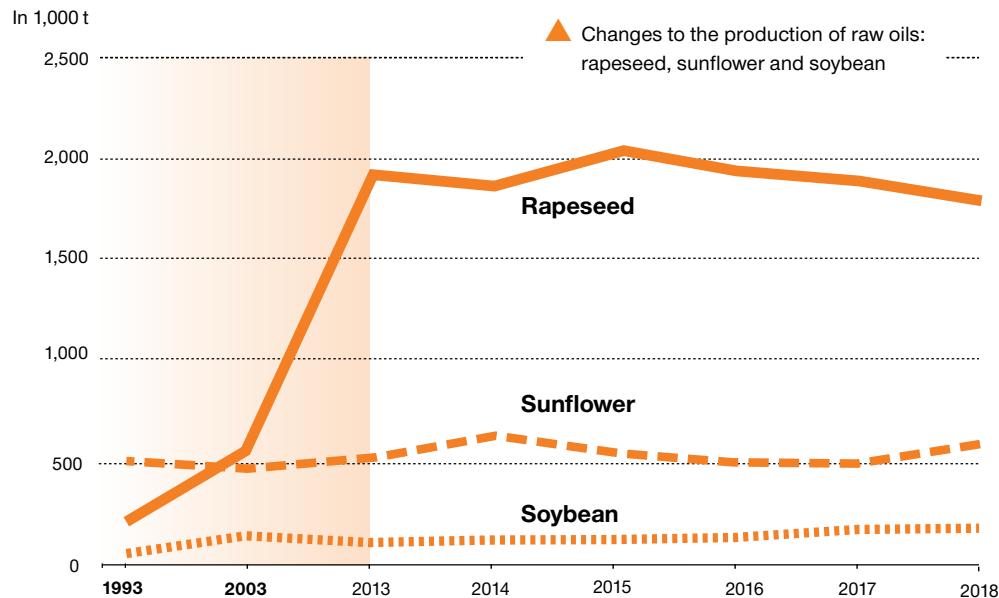
Source: Terres Univia

	1993	2003	2013	2014	2015	2016	2017	2018
RAPESEED	220	599	1,926	1,890	2,037	1,948	1,904	1,815
SUNFLOWER	519	476	527	621	558	501	494	589
SOYBEAN	71	122	97	108	130	140	153*	150*
TOTAL 3 GRAINS	810	1,197	2,550	2,618	2,725	2,589	2,551	2,554

- Calendar year
- In 1,000 tonnes

* Provisional figure from Oil World

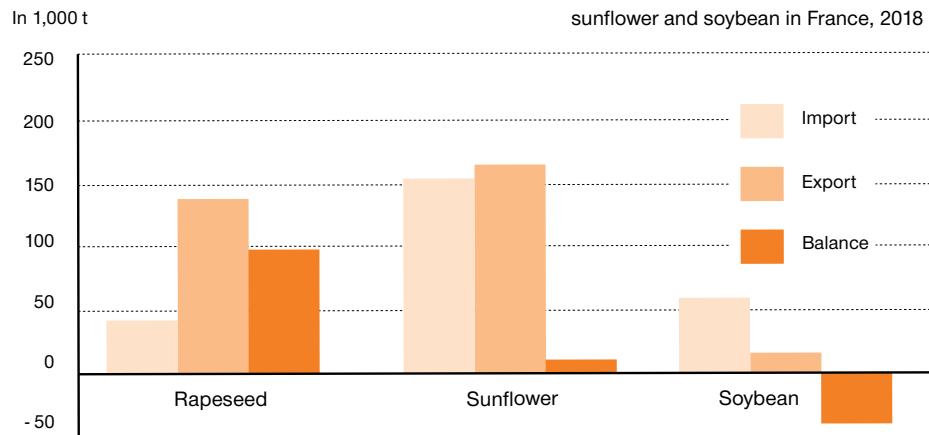
Source: Huilleries et Margarineries de France



	1983	1993	2003	2013	2014	2015	2016	2017	2018
RAPESEED									
Import	20	35	85	107	27	29	27	27	43
Export	159	121	217	200	113	149	191	168	141
Balance (export-import)	139	86	132	93	86	120	164	141	98
SUNFLOWER									
Import	120	133	139	95	115	83	215	198	155
Export	19	242	193	164	199	161	235	227	166
Balance (export-import)	-101	109	54	69	84	78	20	29	11
SOYBEAN									
Import	87	64	47	76	64	65	56	27	59
Export	143	57	67	39	37	77	109	17	17
Balance (export-import)	56	-7	20	-37	-27	12	53	-10	-42

Source: Huileries et Margarinerie de France

▲ Trade in raw oils: rapeseed, sunflower and soybean in France, 2018



FRANCE

Consumption of oils

(production of raw oils + imports of raw and refined oils - exports of raw and refined oils)

	1983	1993	2003	2013	2014	2015	2016	2017	2018
RAPESEED	81	139	467	1,830	1,751	1,828	1,803	1,841	1,760
SUNFLOWER	228	420	423	398	448	391	400	375	433
SOYBEAN	90	80	102	146	135	115	91	143*	143*
TOTAL 3 oils	399	639	992	2,374	2,334	2,334	2,294	2,359	2,336

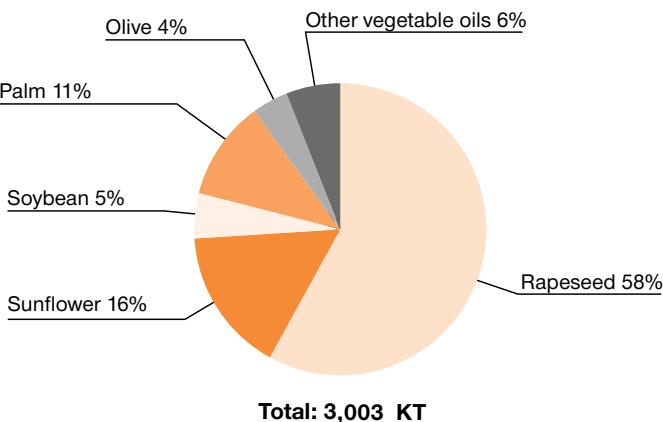
- Calendar year
- In 1,000 tonnes

*Provisional figure from Oil World

Source: Huilleries et Margarineries de France

▲ Breakdown of French consumption of vegetable oils in 2018

Source: Oil World

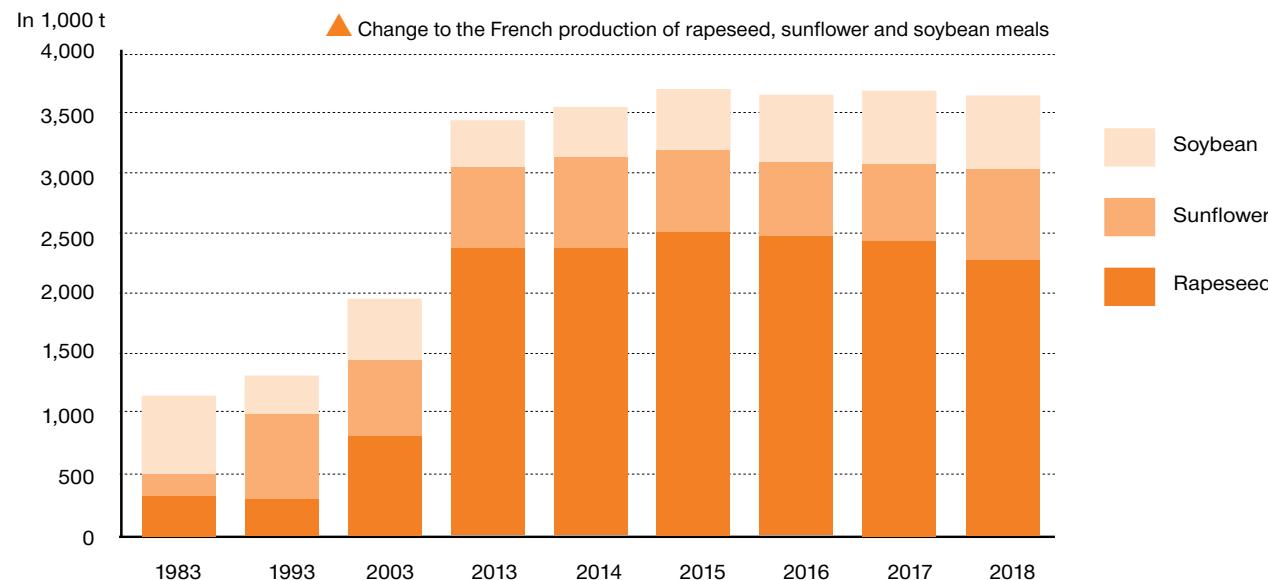


	1983	1993	2003	2013	2014	2015	2016	2017	2018
RAPESEED	339	301	828	2,389	2,388	2,528	2,493	2,460	2,299
SUNFLOWER	182	706	629	680	766	677	617	645	775
SOYBEAN	647	320	510	386	412	511	558	607*	595*
TOTAL 3 oilseed meals	1,168	1,327	1,967	3,455	3,566	3,716	3,668	3,712	3,669

- Calendar year
- In 1,000 tonnes

*Provisional figure from Oil World

Source: Huileries et Margarineries de France

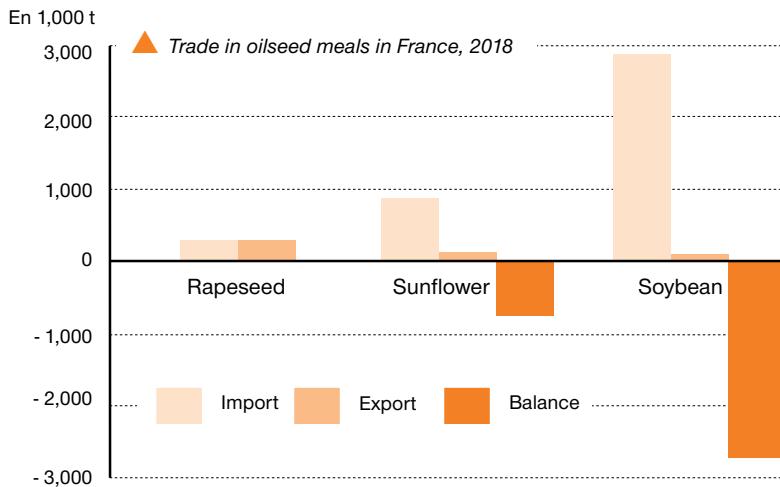


Trade

• Calendar year
• In 1,000 tonnes

	2013	2014	2015	2016	2017	2018
RAPESEED						
Import	578	514	485	456	363	303
Export	478	408	514	471	431	309
Balance (export-import)	-101	-106	29	15	68	6
SUNFLOWER						
Import	816	956	975	880	938	847
Export	112	130	62	43	66	100
Balance (export-import)	-704	-826	-913	-836	-872	-747
SOYBEAN						
Import	3,051	3,175	3,460	2,964	2,880	2,891
Export	103	227	75	16	77	95
Balance (export-import)	-2,948	-2,948	-3,385	-2,948	-2,803	-2,796

Source: customs

**Consumption**

• Calendar year
• In 1,000 tonnes

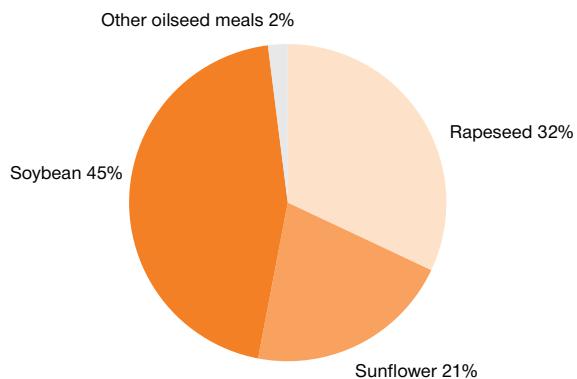
	1993	2003	2013	2014	2015	2016	2017	2018
RAPESEED	594	1,048	2,506	2,554	2,509	2,479	2,382	2,329
SUNFLOWER	740	858	1,380	1,605	1,591	1,461	1,539	1,501
SOYBEAN	3,590	5,124	3,332	3,362	3,910	3,506	3,213	3,300
TOTAL oilseed meals*	5,232	7,338	7,419	7,672	8,199	7,607	7,306	7,287

Source: Huilleries et Margarineries de France

* Rapeseed, sunflower, soybean, groundnut, linseed, copra palm, castor, cotton

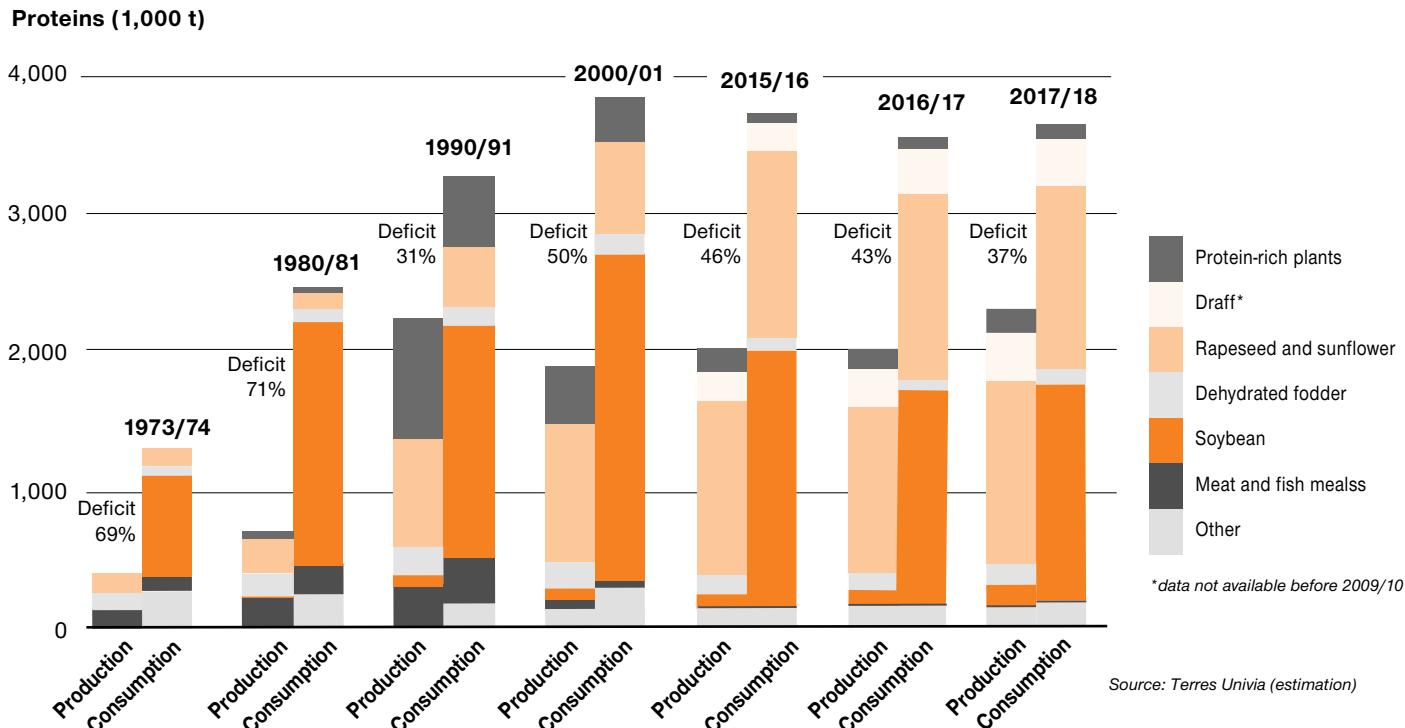
▲ Breakdown of the consumption
of oilseed meals in France, 2018

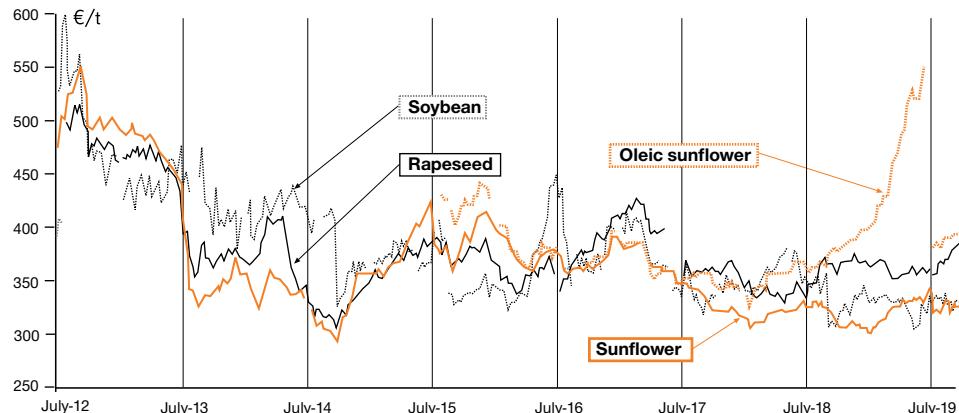
Total: 7,287 KT



Changes to the balances of the principal protein-rich components (PCR) in livestock feeds

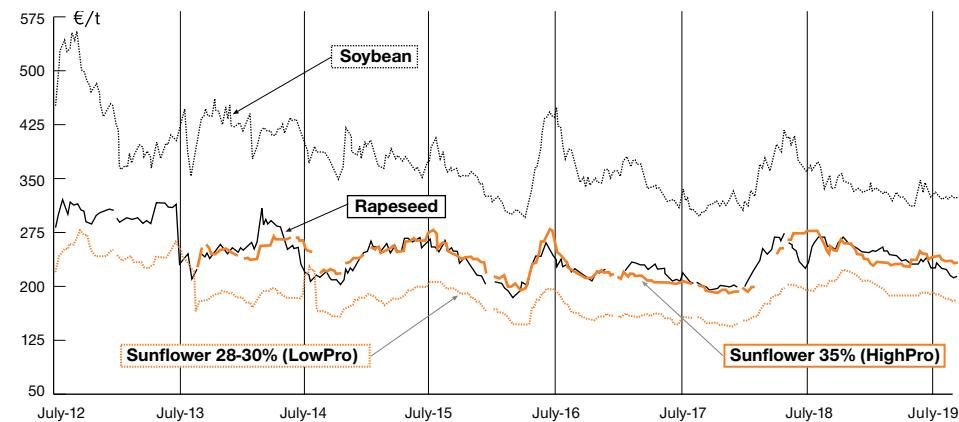
PCR: Proteins >15%, not including milk powders and until 1994/5 not including corn gluten feed





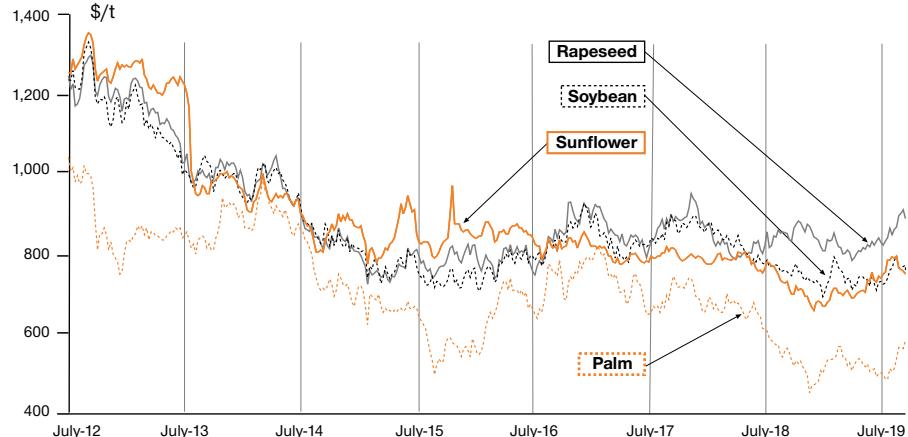
▲ Prices of rapeseed, sunflower and soybean grain
Rapeseed (delivered Rouen),
sunflower (delivered St-Nazaire),
soybean (CIF Rotterdam)

Source:
compilation Terres Univia from several sources



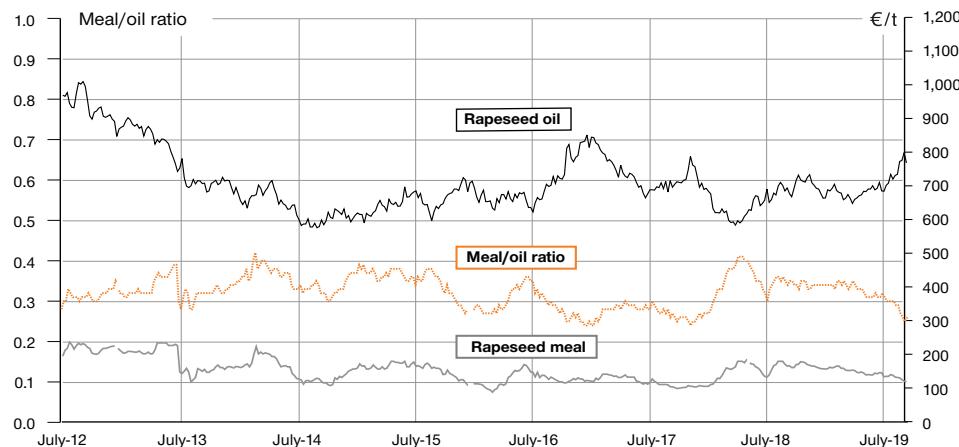
▲ Prices of rapeseed, sunflower and soybean meals
Rapeseed and sunflower (ex-works France),
soybean (Lorient)

Source:
compilation Terres Univia from several sources



▲ Prices of rapeseed,
sunflower, soybean and palm oil
Fob ou Caf nord-ouest Europe

Source: Terres Univia according to Oil World



▲ Prices of rapeseed meal,
rapeseed oil and ratio
Rapeseed meal ex-works France,
rapeseed oil FOB north-west Europe

Source: Terres Univia according to Oil World

French consumption of biodiesel

	2015	2016	2017	2018
VOME (vegetable oils)	2,581	2,560	2,536	2,435
Rapeseed esters	2,124	2,166	1,923	1,585
Soybean esters	59	103	141	417
Palm esters	354	261	378	349
Sunflower esters	0	28	94	83
WOME (waste oils)	90	116	127	123
AFME (animal fats)	64	39	37	36
HVO (100% palm)	129	232	298	326
TOTAL	2,864	2,948	2,998	2,920

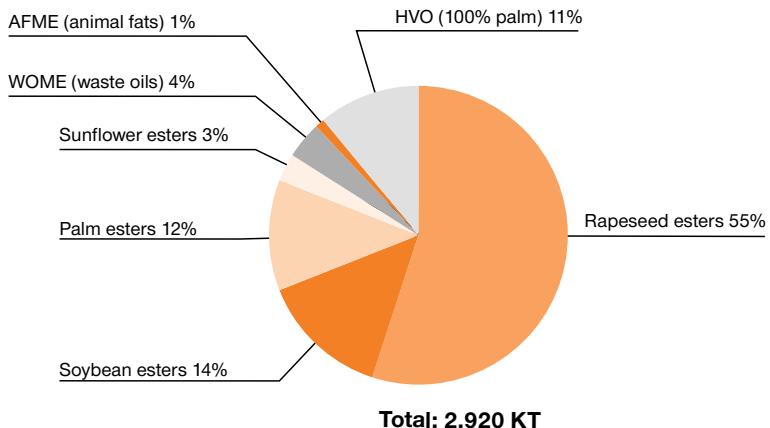
- Calendar year
- In 1,000 tonnes

Sources of raw materials

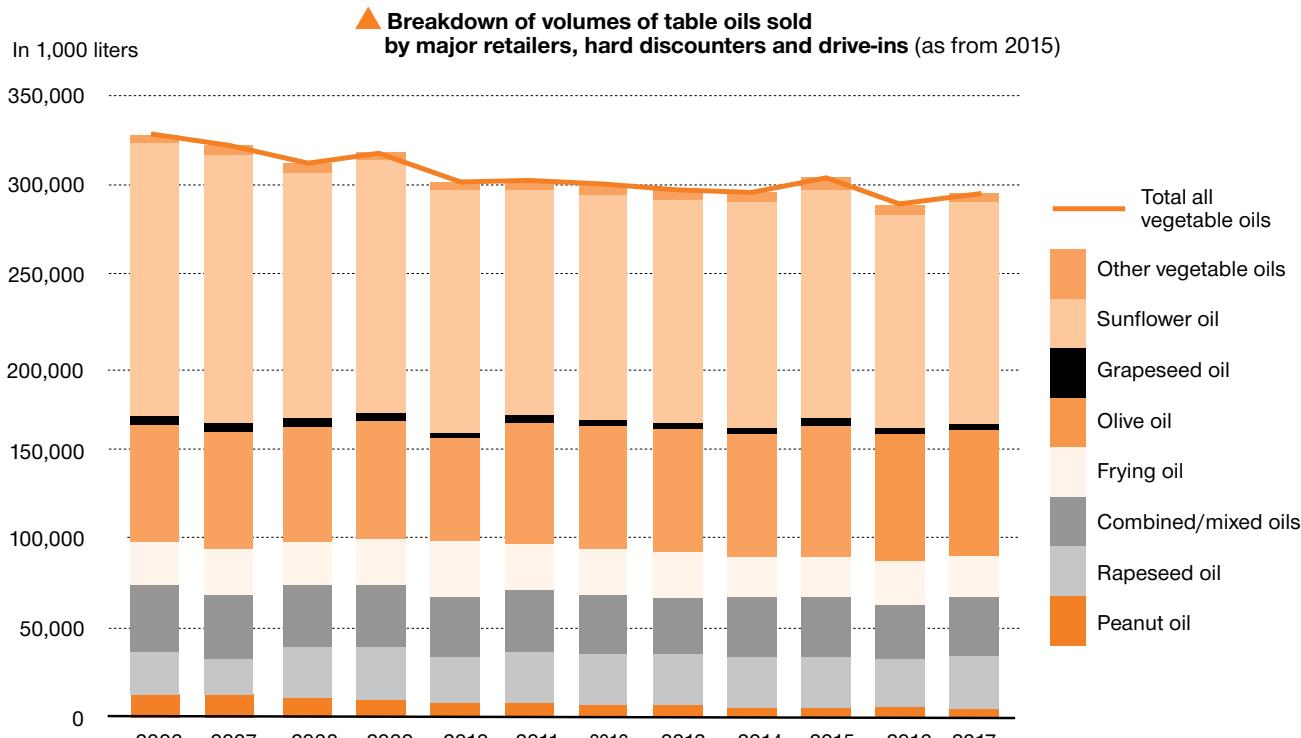
	2017	2018
VOME (vegetable oils)		
Rapeseed (France)	1,160	999
Rapeseed (EU not France)	663	301
Rapeseed (non-EU)	99	285
Soybean (non-EU)	141	417
Palm (non-EU)	378	349
Sunflower (France)	53	55
Sunflower (EU not France)	41	27
HVO (100% palm)		
Palm (non-EU)	298	326

- Calendar year
- In 1,000 tonnes

Source: Terres Univia according to DGEC



▲ Breakdown of volumes of biofuels available for consumption in France in 2018 in diesel sector



Source: Terres Univia according to Nielsen

Land sown to oilseed grain

RAPESEED	1993	2003	2013	2014	2015	2016	2017	2018
Germany	1,007	1,268	1,466	1,394	1,285	1,327	1,308	1,225
France	565	1,083	1,437	1,503	1,506	1,549	1,401	1,616
UK	417	543	715	675	652	579	562	583
Poland	349	426	923	951	947	827	914	845
Czech Republic	167	251	419	389	366	393	394	412
Total EU*	2,440	3,197	6,713	6,721	6,495	6,562	6,734	6,923

SOYBEAN	1993	2003	2013	2014	2015	2016	2017	2018
Italy	186	152	230	260	330	300	322	327
France	55	81	43	76	123	137	142	154
Austria	54	15	42	44	57	50	64	68
Croatia	21	50	47	47	88	79	85	77
Romania	75	129	67	86	110	121	150	150
Total EU*	299	249	511	601	878	835	948	959

SUNFLOWER	1993	2003	2013	2014	2015	2016	2017	2018
Spain	2,141	787	849	783	739	718	716	688
France	820	694	771	657	619	537	581	553
Hungary	389	511	597	594	612	630	695	630
Romania	588	1,188	1,072	1,001	1,034	1,024	1,065	1,100
Bulgaria	469	660	807	790	757	818	867	760
Total EU*	3,324	1,739	4,512	4,200	4,141	4,109	4,323	4,095

Total EU* 3 grains	1993	2003	2013	2014	2015	2016	2017	2018
	6,063	5,185	11,736	11,522	11,514	11,506	12,005	11,977

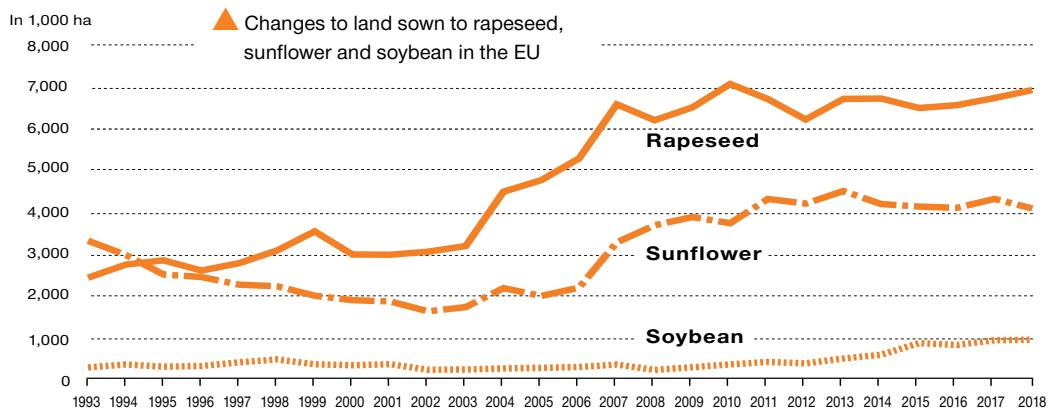
- By year of harvest

Sources: Eurostat et SCEES/SSP for France

- In 1000 ha

- EU-15 until 2003,
EU-25 2004-2006,
EU-27 2007-2012, then EU-28 from 2013.

* Including other countries



RAPESEED	1993	2003	2013	2014	2015	2016	2017	2018
Germany	2,848	3,638	5,784	6,158	5,013	4,578	4,275	3,665
France	1,550	3,361	4,366	5,524	5,334	4,742	5,317	4,946
UK	1,085	1,771	2,127	2,460	2,542	1,779	2,167	2,012
Poland	594	793	2,788	3,276	2,875	2,185	2,697	2,202
Czech Republic	377	388	1,443	1,537	1,256	1,359	1,146	1,411
Total EU*	6,559	9,478	21,125	24,269	21,900	20,527	22,154	19,955

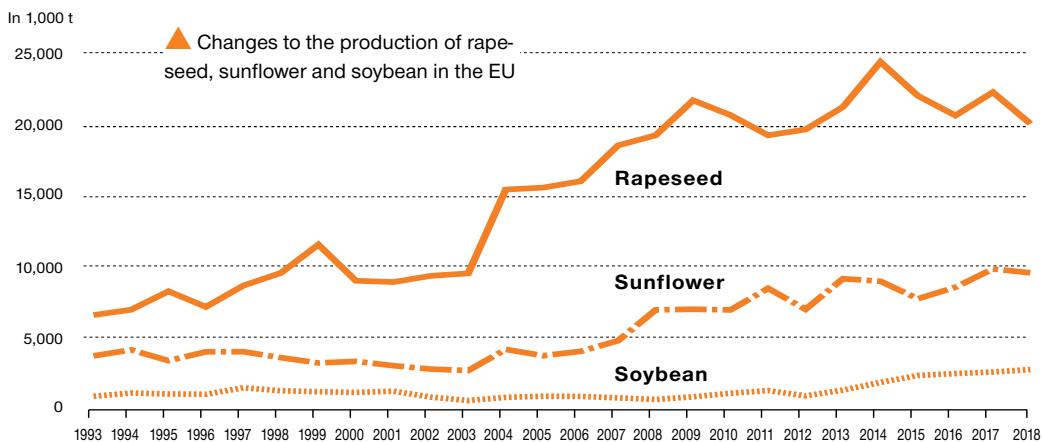
SOYBEAN	1993	2003	2013	2014	2015	2016	2017	2018
Italy	603	389	717	933	1,117	1,081	991	1,139
France	130	149	110	227	337	339	415	400
Austria	125	39	83	118	136	152	193	184
Croatia	49	83	111	131	194	244	204	246
Romania	95	225	150	209	262	258	326	330
Total EU*	874	581	1,309	1,846	2,332	2,465	2,573	2,747

SUNFLOWER	1993	2003	2013	2014	2015	2016	2017	2018
Spain	1,309	763	1,029	902	769	772	843	924
France	1,640	1,505	1,578	1,584	1,187	1,172	1,599	1,248
Hungary	682	992	1,484	1,597	1,557	1,875	2,022	1,865
Romania	696	1,506	2,142	2,050	1,810	1,965	2,400	2,640
Bulgaria	432	789	1,939	1,950	1,600	1,800	2,057	1,976
Total EU*	3,703	2,677	9,104	8,923	7,701	8,507	9,788	9,516

Total EU* 3 grains	1993	2003	2013	2014	2015	2016	2017	2018
	11,136	12,736	31,538	35,038	31,933	31,499	34,515	32,218

- Calendar year
- In 1,000 tonnes
- EU-15 until 2003,
EU-25 2004-2006,
EU-27 2007-2012, then EU-28 from 2013
- * Including other countries

Sources: Eurostat and SCEES/SSP for France



	1983	1993	2003	2013	2014	2015	2016	2017	2018
RAPESSEED									
Import*	155	532	304	3,729	3,056	2,838	3,294	4,988	4,372
Export*	17	539	490	228	549	300	451	105	57
Balance (export-import)	-138	7	186	-3,501	-2,507	-2,538	-2,843	-4,883	-4,315
SUNFLOWER									
Import*	375	850	1,849	335	207	306	830	504	526
Export*	7	13	1,263	750	630	260	390	394	468
Balance (export-import)	-368	-837	-586	415	423	-46	-440	-110	-58
SOYBEAN									
Import*	10,525	13,861	17,448	12,928	12,913	13,294	14,709	13,611	15,134
Export*	11	16	54	20	67	185	55	359	100
Balance (export-import)	-10,514	-13,845	-17,394	-12,908	-12,846	-13,109	-14,654	-13,252	-15,034

- Calendar year
- In 1,000 tonnes

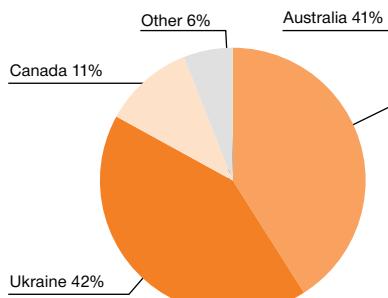
• EU-15 until 2003,
EU-25 2004-2006,
EU-27 2007-2012, then EU-28 from 2013

* Trade within the EU not taken into account

Source: Fediol

▲ Origin of RAPESSEED imports 2017/18

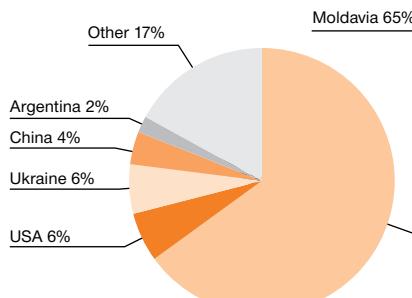
Source: Eurostat



Total: 4,007 KT

▲ Origin of SUNFLOWER imports 2017/18

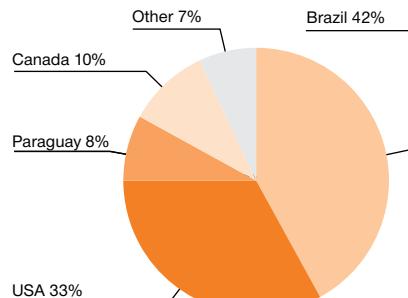
Source: Eurostat



Total: 553 KT

▲ Origin of SOYBEAN imports 2017/18

Source: Eurostat



Total: 14,125 KT

	1983	1993	2003	2013	2014	2015	2016	2017	2018
RAPESEED									
Germany	1,555	2,493	4,444	8,817	9,584	9,548	9,409	9,320	9,320
France	578	531	1,497	4,451	4,308	4,653	4,507	4,361	4,144
Poland	465	499	839	2,290	2,400	2,525	2,312	2,363	2,505
Belgium-Lux	35	519	462	1,363	1,436	1,530	1,560	1,646	1,566
UK	564	1,113	1,334	1,762	1,956	1,962	1,759	1,642	1,967
Total EU*	4191	7,193	10,187	23,149	24,585	24,940	24,150	24,199	24,144
SUNFLOWER									
Hungary	448	517	357	1,055	1,341	1,340	1,540	1,650	1,620
France	316	1,245	1,155	1,249	1,394	1,246	1,142	1,201	1,381
Spain	651	1,112	1,150	1,082	1,259	1,326	992	1,140	1,313
Bulgaria	414	386	258	574	749	828	741	987	1,145
Romania	712	677	822	219	865	1,005	818	930	1,180
Total EU*	2,326	4,237	3,902	5,939	7,617	7,588	6,997	7,929	8,886
SOYBEAN									
Germany	3,030	2,884	3,807	3,282	3,345	3,574	3,515	3,232	3,380
Spain	2,990	1,774	2,798	3,261	3,236	3,247	3,112	3,155	3,246
Netherlands	2,497	3,637	3,559	2,409	2,398	2,974	3,203	2,893	3,307
Italy	1,569	1,674	1,461	1,483	1,550	1,480	1,972	2,165	2,359
Portugal	741	384	860	708	687	695	735	760	1,105
France	836	407	657	513	545	683	733	794**	779**
Total EU*	14,199	13,240	15,956	13,137	13,209	14,197	15,053	14,592	16,360

Sources: Fediol and Huilleries et Margarineries de France

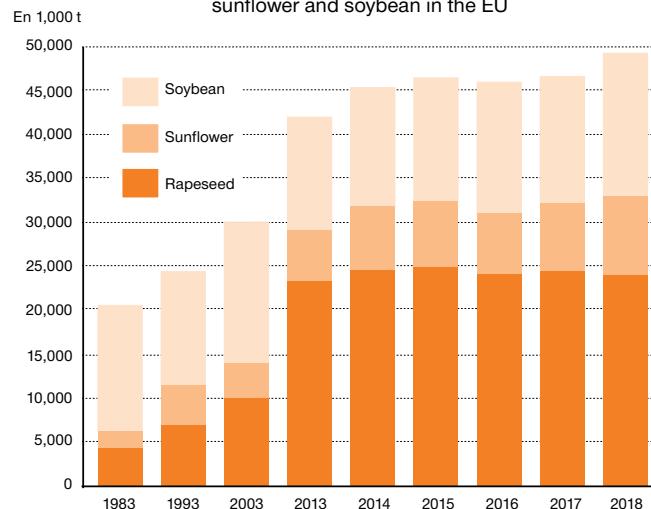
*including other countries

**provisional figure from Oil World

- Calendar year
- In 1,000 tonnes

- EU-15 until 2003,
EU-25 2004-2006,
EU-27 2007-2012, then EU-28 from 2013

▲ Changes to the crushing of rapeseed, sunflower and soybean in the EU



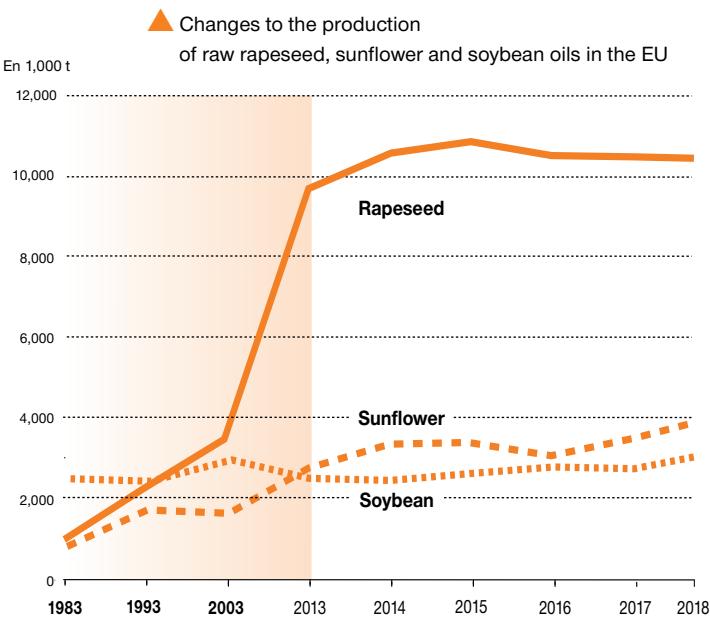
	1983	1993	2003	2013	2014	2015	2016	2017	2018
RAPESEED									
Germany	607	1,024	1,822	3,787	4,121	4,153	4,093	4,054	4,054
France	227	220	599	1,926	1,890	2,037	1,948	1,904	1,815
Poland	186	199	336	928	1,032	1,098	1,006	1,028	1,090
Belgium	14	211	195	567	617	666	679	716	681
UK	218	462	562	749	841	853	765	714	856
Total EU*	1,090	2,207	3,586	9,746	10,572	10,849	10,505	10,527	10,503
SUNFLOWER									
Hungary	202	223	152	472	598	596	685	734	721
France	141	519	476	527	621	558	501	494	589
Spain	263	433	460	433	554	590	441	507	584
Romania	285	271	329	313	381	447	364	414	525
Bulgaria	158	148	101	244	361	368	330	439	510
Total EU*	957	1,707	1,633	2,742	3,351	3,377	3,114	3,528	3,954
Soybean									
Germany	528	515	729	630	627	661	650	606	634
Netherlands	445	671	690	470	450	550	593	542	620
Spain	541	309	494	615	607	601	576	592	609
Italy	281	375	314	266	291	274	365	406	442
Portugal	132	71	146	120	129	129	136	143	207
France	148	71	122	97	108	130	140	153**	150**
Total EU*	2,512	2,373	2,955	2,463	2,477	2,626	2,785	2,736	3,068

Sources: Fediol and Huileries et Margarineries de France

*including other countries

**provisional figure from Oil World

- Calendar year
- In 1,000 tonnes
- EU-15 until 2003,
EU-25 2004-2006,
EU-27 2007-2012, then EU-28 from 2013



Consumption of oils

(production of raw oils + imports of all oils – exports of all oils)

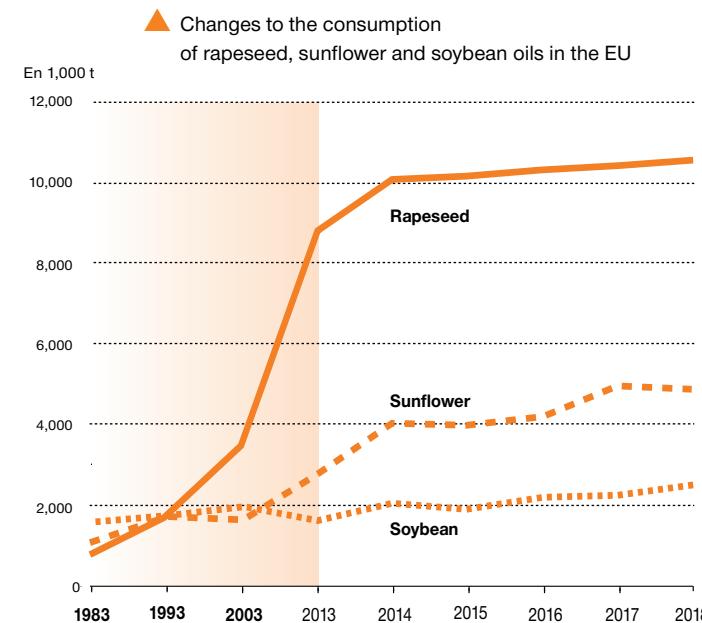
	1983	1993	2003	2013	2014	2015	2016	2017	2018
RAPESEED									
Germany	279	518	1,401	2,807	3,524	3,460	3,232	3,158	3,349
France	81	139	467	1,830	1,751	1,828	1,803	1,841	1,760
UK	265	515	632	688	681	730	711	759	689
Poland	-	-	-	662	680	695	690	1,063	1,170
Belgium	47	130	194	562	811	758	673	732	719
Total EU*	846	1,620	3,471	8,746	10,093	10,128	10,297	10,382	10,523
SUNFLOWER									
Spain	300	383	427	658	776	797	768	1,049	877
Italy	107	181	284	361	521	482	582	690	748
France	228	420	423	398	448	391	400	375	433
Germany	181	255	244	277	317	292	298	330	360
Belgium	46	40	123	254	252	241	280	281	326
Total EU*	1,095	1,698	1,971	3,194	4,035	3,973	4,174	4,993	4,904
SOYBEAN									
Germany	421	449	405	413	347	280	405	430	441
Spain	131	184	268	0	171	234	324	348	321
Italy	290	223	360	197	258	257	313	344	364
UK	212	175	210	291	266	237	257	281	298
Netherlands	192	263	318	71	242	175	146	113	181
Total EU*	1,565	1,677	1,996	1,615	1,996	1,898	2,174	2,219	2,485

Sources: Fediol and Huilleries et Margarineries de France

* including other countries

- Calendar year
- In 1,000 tonnes

- EU-15 until 2003,
EU-25 2004-2006,
EU-27 2007-2012, then EU-28 from 2013



Production of oilseed meals

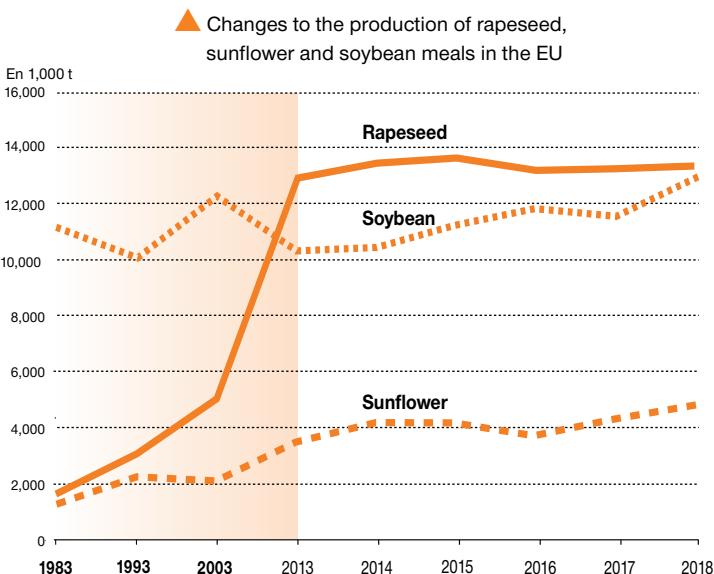
	1983	1993	2003	2013	2014	2015	2016	2017	2018
RAPESEED									
Germany	777	1,453	2,586	4,986	5,271	5,251	5,175	5,126	5,126
France	339	301	828	2,389	2,388	2,528	2,493	2,460	2,299
Poland	140	279	470	1,280	1,320	1,389	1,272	1,300	1,378
Belgium	19	278	254	737	790	842	858	905	861
UK	333	642	732	986	1,076	1,079	967	903	1,082
Total EU*	1,666	3,085	4,992	12,963	13,522	13,717	13,267	13,309	13,279
SUNFLOWER									
Hungary	233	277	193	570	734	724	724	891	875
France	182	706	629	680	766	677	617	645	775
Spain	308	512	526	503	680	716	536	616	709
Romania	377	359	436	388	467	543	442	502	637
Bulgaria	186	174	116	266	443	447	400	533	618
Total EU*	1,258	2,244	1,984	3,437	4,113	4,098	3,682	4,282	4,798
SOYBEAN									
Germany	2,431	2,329	3,003	2,610	2,651	2,832	2,786	2,561	2,679
Spain	2,361	1,419	2,214	2,575	2,565	2,573	2,466	2,500	2,572
Netherlands	2,008	2,831	2,785	1,879	1,900	2,357	2,538	2,293	2,621
Italy	1,277	1,342	1,172	1,177	1,228	1,173	1,563	1,716	1,870
Portugal	595	307	684	563	544	551	582	602	876
France	647	320	510	386	412	511	558	607**	595**
Total EU*	11,166	10,118	12,303	10,336	10,468	11,251	11,875	11,564	12,965

Sources: Fediol and Huileries et Margarineries de France

*including other countries

**provisional figure from Oil World

- Calendar year
- In 1,000 tonnes
- EU-15 until 2003,
EU-25 2004-2006,
EU-27 2007-2012, then EU-28 from 2013

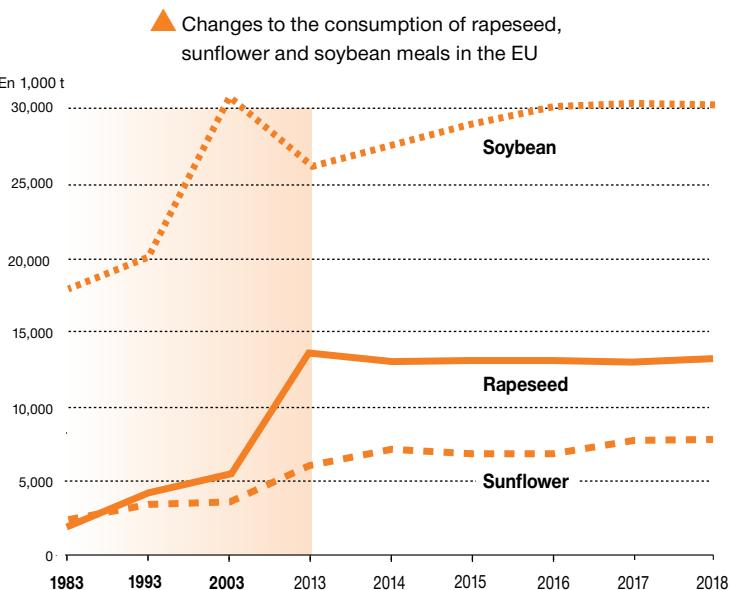


	1983	1993	2003	2013	2014	2015	2016	2017	2018
RAPESEED									
Germany	845	1,358	1,715	3,748	3,862	3,912	3,902	4,103	4,192
France	255	594	1,048	2,506	2,554	2,509	2,479	2,382	2,329
Poland	260	180	329	736	769	682	640	724	802
UK	416	920	791	1,119	1,156	1,202	1,012	962	931
Netherlands	227	499	788	1,263	1,286	1,140	882	782	716
Total EU*	1,971	4,211	5,339	13,645	13,243	13,235	13,135	13,034	13,281
SUNFLOWER									
France	264	740	858	1,380	1,605	1,591	1,461	1,539	1,501
Spain	318	572	527	770	1,056	1,088	962	1,186	1,183
Italy	162	278	525	775	896	822	798	852	862
Netherlands	194	449	416	468	577	417	518	535	617
Hungary	227	253	256	315	391	401	456	484	508
Total EU*	2,338	3,470	3,666	6,105	7,232	6,874	6,895	7,793	7,764
SOYBEAN									
Spain	2,379	3,262	4,961	3,509	3,984	4,136	4,306	4,646	4,431
Germany	2,864	3,160	4,196	4,102	4,038	3,908	4,165	3,691	3,448
France	4,008	3,590	5,124	3,332	3,362	3,910	3,506	3,213	3,300
Italy	2,617	2,871	3,837	2,826	3,128	3,279	3,514	3,751	3,864
UK	1,837	2,033	2,691	2,182	2,375	2,630	2,620	2,366	2,457
Netherlands	1,550	1,899	3,281	2,494	2,675	2,348	2,393	2,180	2,184
Poland	459	555	1,377	1,889	1,905	2,160	2,264	2,477	2,558
Total EU*	17,903	20,180	30,924	26,332	27,664	29,136	30,109	30,343	30,212

Sources: Fediol and Huilleries et Margarineries de France

*including other countries

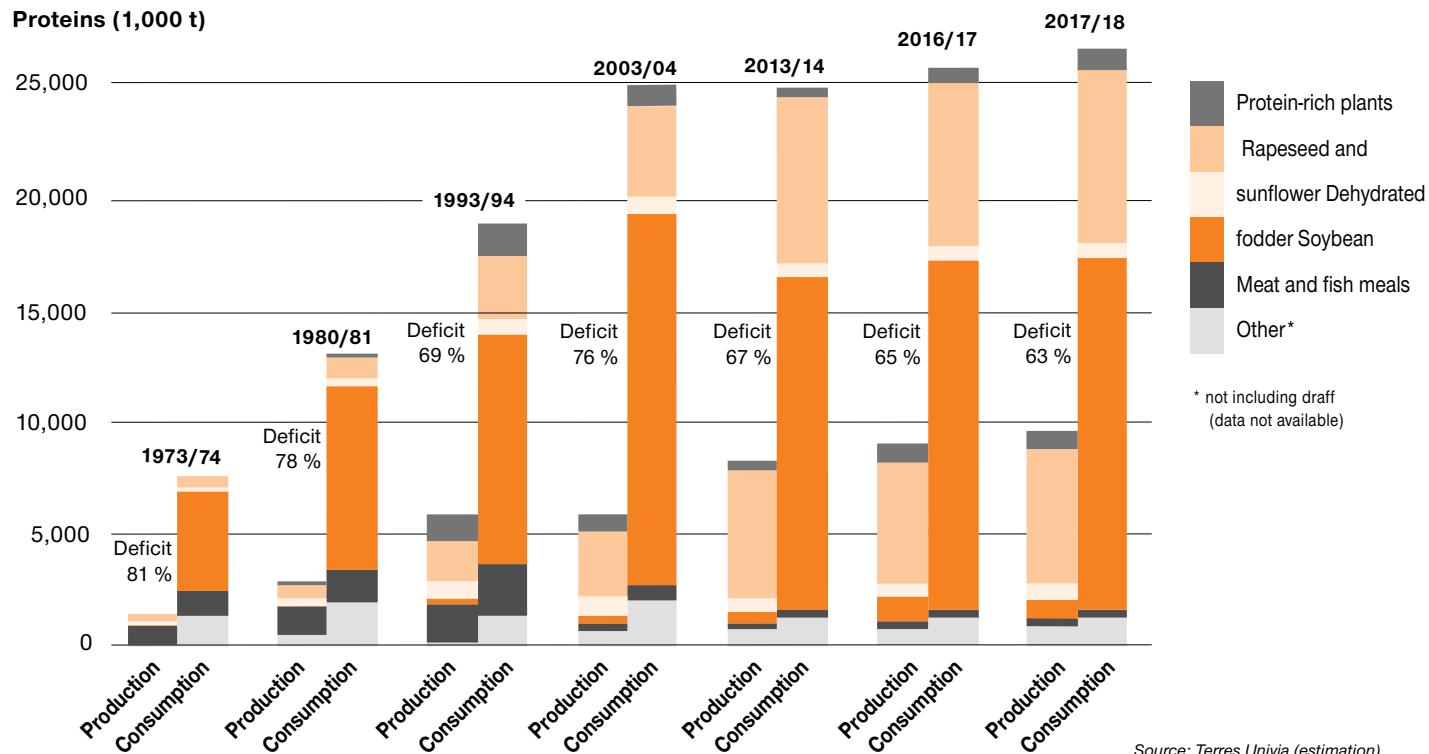
- Calendar year
- In 1,000 tonnes
- EU-15 until 2003,
EU-25 2004-2006,
EU-27 2007-2012, then EU-28 from 2013



Changes to the balances of the principal protein-rich components (PCR) in livestock feeds

EU-12 until 1993/94, EU-15 2003-04 then EU-28

PCR: Proteins >15%, not including milk powders and until 1994/5 not including corn gluten feed



Source: Terres Univia (estimation)

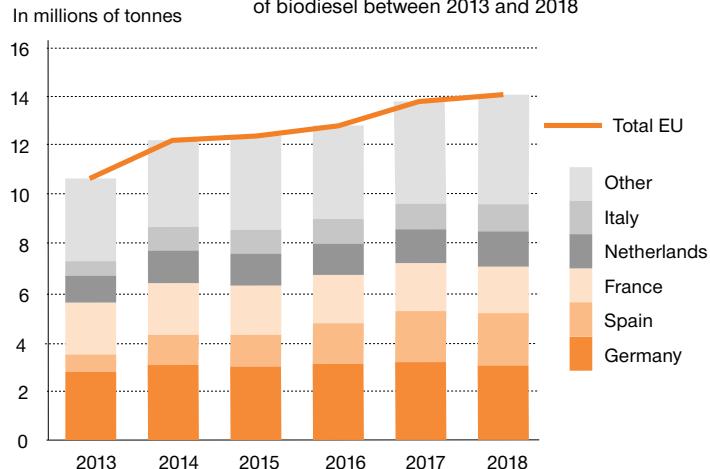
Production

	2013	2014	2015	2016	2017	2018
Germany	2.81	3.07	3.03	3.15	3.19	3.03
Spain	0.71	1.27	1.26	1.65	2.12	2.17
France	2.11	2.05	2.03	1.96	1.95	1.91
Netherlands	1.10	1.35	1.30	1.25	1.35	1.45
Italy	0.62	0.99	1.02	1.02	1.05	1.09
Other	3.36	3.54	3.81	3.84	4.17	4.46
Total EU	10.71	12.27	12.45	12.87	13.83	14.11

- Calendar year
- In millions of tonnes

Source: Oil World

▲ Changes to the EU production of biodiesel between 2013 and 2018

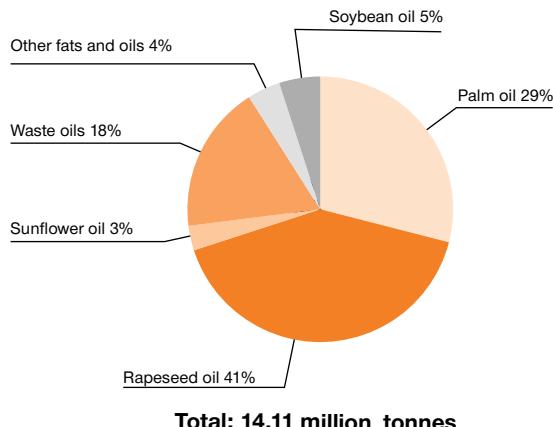


Raw materials used

	2017	2018
Soybean oil	0.66	0.68
Palm oil	3.94	4.05
Rapeseed oil	5.88	5.73
Sunflower oil	0.43	0.46
Waste oils	2.31	2.58
Other fats and oils	0.61	0.61

Source: Oil World

▲ Breakdown of raw materials used for EU production of biodiesel in 2018



WORLD

Production of oilseed grain

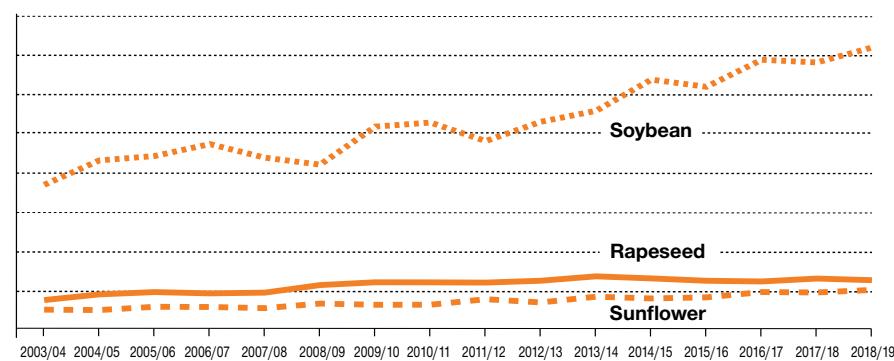
	1993/94	2003/04	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
RAPESEED								
World	26.78	39.07	69.59	66.99	64.03	63.17	66.91	64.88
EU*	6.56	9.48	21.13	24.27	21.90	20.53	22.15	19.96
Canada	5.35	6.85	18.55	16.41	18.38	19.73	21.33	20.34
China	6.95	11.42	11.60	10.00	8.00	5.60	4.80	4.80
India	5.25	6.15	6.70	5.00	5.70	6.75	7.10	8.00
SUNFLOWER								
World	20.55	26.86	43.71	41.54	42.93	49.69	49.21	52.44
Argentina	3.60	2.99	2.37	3.00	2.81	3.30	3.40	3.70
EU *	3.70	2.68	9.10	8.92	7.70	8.51	9.79	9.52
Russia	-	4.87	10.20	9.00	9.70	11.60	11.00	12.70
Ukraine	-	4.48	11.00	10.25	12.10	15.10	13.50	15.50
SOYBEAN								
World	112.64	185.60	280.09	319.77	310.71	345.05	341.73	360.76
USA	49.22	66.78	91.39	106.91	106.87	116.93	120.07	123.66
Brazil	24.40	50.09	86.40	97.18	95.44	114.08	122.00	116.50
Argentina	12.10	32.30	50.00	60.00	54.40	52.00	35.00	56.00
Total								
World 3 grains	159.97	251.53	393.39	428.30	417.68	457.91	457.85	478.09

- By year of harvest
- In millions of tonnes

* EU-15 until 2003,
EU-25 2004-2006,
EU-27 2007-2012, then EU-28 from 2013

Sources: Oil World et Eurostat

In millions of tonnes



▲ Changes to world production
of rapeseed, sunflower and soybean

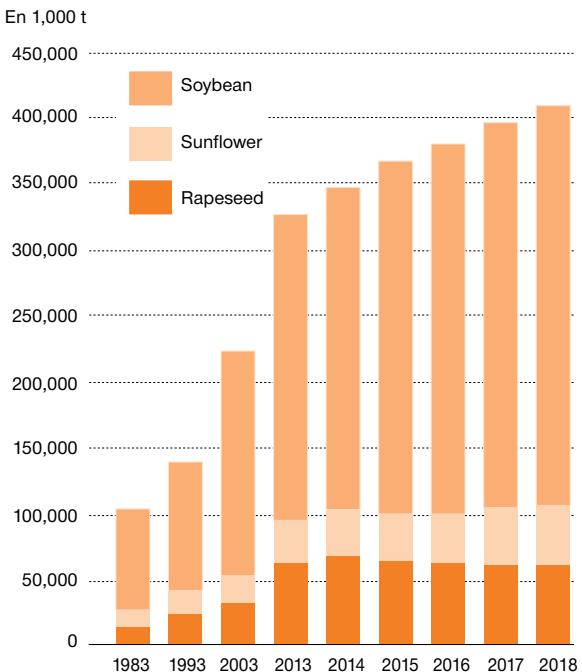
	1983	1993	2003	2013	2014	2015	2016	2017	2018
RAPESSEED									
World	13,594	23,963	32,314	63,010	66,013	63,500	61,644	61,006	61,960
EU*	4,191	7,193	10,187	23,149	24,585	24,940	24,150	24,199	24,144
Canada	1,031	2,041	2,672	6,497	7,145	7,738	8,849	9,179	9,286
China	4,638	6,750	10,200	15,180	14,830	13,180	10,630	9,100	9,200
India	1,983	4,690	3,340	6,300	6,518	4,687	5,105	5,746	6,875
SUNFLOWER									
World	14,926	19,109	21,701	33,512	38,820	36,791	39,409	44,931	45,045
Ukraine	-	-	3,092	8,255	10,937	10,360	12,510	14,460	13,800
Russia	-	-	3,284	8,155	9,570	8,645	9,700	10,890	10,500
EU*	2,326	4,237	3,902	5,939	7,617	7,588	6,997	7,929	8,886
Argentina	2,306	2,930	3,286	2,584	2,217	2,631	2,746	3,155	3,075
SOYBEAN									
World	76,542	96,746	169,174	229,386	243,360	266,770	279,071	290,371	301,040
China	4,062	4,560	26,450	60,920	66,670	73,560	81,110	88,980	90,700
USA	29,145	34,705	43,899	46,085	47,190	51,749	51,781	52,206	57,110
Brazil	13,039	16,129	27,797	36,238	37,622	40,557	39,531	41,838	43,556
Argentina	2,172	8,251	24,320	34,041	37,936	40,940	44,487	41,824	36,761
Total									
World 3 grains	105,062	139,818	223,189	325,908	348,193	367,061	380,124	396,308	408,045

- Calendar year
- In 1,000 tonnes

Sources: Oil World and FEDIOL

* EU-15 until 2003,
EU-25 2004-2006,
EU-27 2007-2012, then EU-28 from 2013

▲ Changes to the crushing of rapeseed, sunflower and soybean worldwide



WORLD

Production of raw oils

	1983	1993	2003	2013	2014	2015	2016	2017	2018
RAPESEED									
World	4,982	9,122	12,697	25,588	26,886	26,106	25,275	25,106	25,494
EU*	1,090	2,207	3,586	9,746	10,572	10,849	10,505	10,527	10,503
Canada	411	847	1,103	2,826	3,116	3,363	3,857	4,046	4,118
China	1,577	2,363	2,815	5,826	5,736	5,150	4,177	3,588	3,643
India	663	1,712	1,266	2,388	2,346	1,687	1,838	2,069	2,475
SUNFLOWER									
World	6,073	7,601	8,896	14,005	16,266	15,304	16,517	18,976	19,030
Ukraine	-	-	1,326	3,632	4,767	4,391	5,392	6,268	5,969
Russia	-	-	1,403	3,466	4,067	3,674	4,141	4,682	4,514
EU*	957	1,707	1,633	2,742	3,551	3,377	3,114	3,528	3,954
Argentina	890	1,182	1,400	1,075	932	1,109	1,132	1,317	1,305
SOYBEAN									
World	13,658	17,379	31,244	42,802	45,250	49,572	52,262	54,288	56,387
China	609	734	4,564	10,795	11,825	13,002	14,429	15,814	16,167
USA	5,286	6,254	8,284	9,029	9,092	9,764	10,023	10,066	10,926
Brazil	2,441	3,054	5,347	7,077	7,443	8,075	7,885	8,433	8,835
Argentina	354	1,460	4,559	6,433	7,096	7,896	8,671	8,066	7,249
PALM	5,417	13,806	28,257	56,834	60,168	63,037	59,522	68,659	72,835
OLIVE	1,911	1,953	2,904	2,802	3,364	2,989	2,921	3,054	3,386
Other vegetable oils**	11,758	16,008	19,055	23,626	23,992	24,475	23,287	25,021	26,181
Total vegetable oils	43,799	65,869	103,053	165,657	175,926	181,483	179,784	195,104	203,313

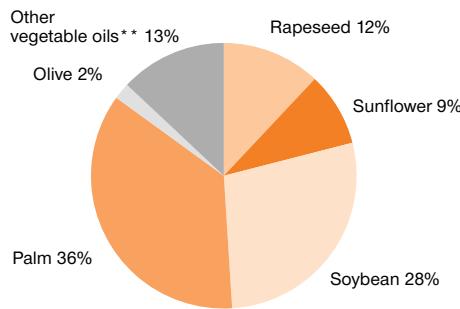
* EU-15 until 2003,
EU-25 2004-2006,
EU-27 2007-2012, then EU-28 from 2013

** cotton, groundnut, sesame, maize, palm, coconut, linseed, castor

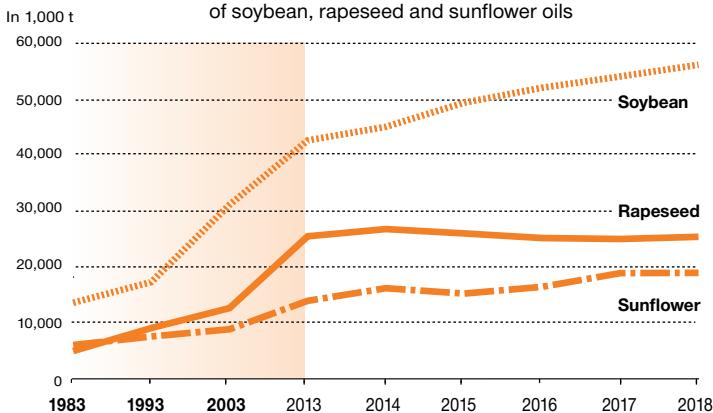
Sources: Oil World and FEDIOL

- Calendar year
- In 1,000 tonnes

▲ Breakdown of world production of vegetable oils in 2018
Total: 203,313 KT



▲ Changes to the world production of soybean, rapeseed and sunflower oils



Consumption = (initial stock + imports + production) – (exports + final stock)

	1983	1993	2003	2013	2014	2015	2016	2017	2018
RAPESEED									
World	5,091	9,190	12,785	24,231	26,150	26,725	26,909	25,974	25,783
EU*	846	1,620	3,471	8,746	10,093	10,128	10,297	10,382	10,523
USA	5	446	627	1,732	2,117	2,215	2,547	2,666	2,444
China	1,548	2,565	3,936	5,947	6,189	6,550	6,502	5,383	4,969
India	824	1,768	1,323	2,392	2,470	2,112	2,213	2,270	2,772
Canada	315	397	410	641	790	853	1,020	973	913
SUNFLOWER									
World	5,761	7,800	8,809	14,207	16,050	15,212	16,292	18,579	19,152
India	93	380	455	1,228	1,759	1,592	1,685	2,308	2,506
Russia	-	-	1,536	2,216	2,353	2,207	2,337	2,432	2,382
EU*	1,095	1,698	1,971	3,194	4,035	3,973	4,174	4,993	4,904
China	362	308	267	622	716	882	1,154	1,000	1,033
Turkey	276	476	466	881	926	869	905	1,070	1,112
SOYBEAN									
World	13,658	17,696	31,255	42,935	45,433	48,040	52,344	54,100	56,021
China	643	835	6,338	11,913	12,871	13,506	14,649	16,134	16,448
USA	4,349	5,969	7,709	8,820	8,526	8,688	9,198	9,096	9,978
Brazil	1,570	2,300	2,999	5,748	6,113	6,520	6,574	6,995	7,626
Argentina	65	79	269	2,183	2,764	2,052	2,915	3,101	2,731
India	575	593	2,032	2,782	3,197	4,250	5,158	4,853	4,599
PALM	5,848	13,259	28,231	57,938	59,478	60,803	62,852	65,373	70,533
OLIVE	1,830	1,990	2,815	3,092	3,208	3,058	3,160	3,082	3,212
Other vegetable oils**	11,891	16,215	18,851	23,845	23,973	24,165	22,758	24,703	25,890
Total vegetable oils	44,079	66,150	102,746	166,248	174,292	178,003	184,315	191,811	200,591

* EU-15 until 2003,

EU-25 2004-2006,

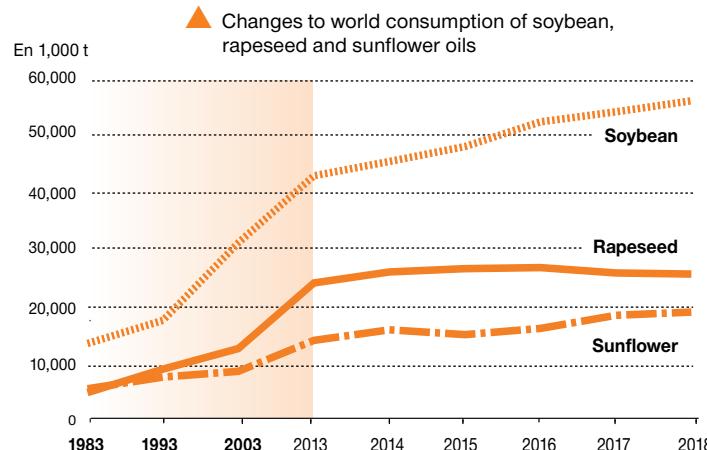
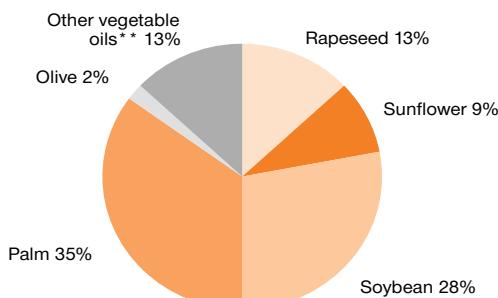
EU-27 2007-2012, then EU-28 from 2013

Sources: Oil World and FEDIOL

** cotton, groundnut, sesame, maize, palm, coconut, linseed, castor

- Calendar year
- In 1,000 tonnes

▲ Breakdown of world consumption of vegetable oils in 2018
Total: 200,591 KT



WORLD Production of oilseed meals

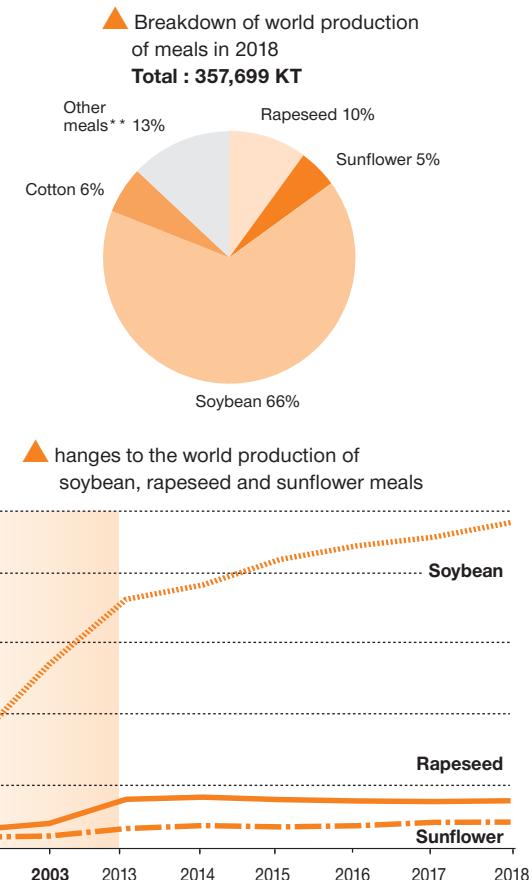
	1983	1993	2003	2013	2014	2015	2016	2017	2018
RAPESEED									
World	8,291	14,469	10,209	36,582	38,100	36,378	35,380	34,945	35,526
EU*	1,666	3,085	4,992	12,963	13,522	13,717	13,267	13,309	13,279
Canada	601	1,249	1,670	3,808	4,042	4,368	4,986	5,118	5,172
China	2,968	4,289	6,283	9,198	8,842	7,813	6,272	5,358	5,410
India	1,230	2,861	1,997	3,765	4,054	2,915	3,175	3,574	4,276
SUNFLOWER									
World	7,083	9,262	10,144	15,527	17,661	16,722	17,543	19,973	20,185
Ukraine	-	-	1,299	3,498	4,484	4,248	5,004	5,784	5,520
Russia	-	-	1,379	3,462	4,002	3,588	4,026	4,519	4,357
EU*	1,258	2,244	1,984	3,437	4,113	4,098	3,682	4,282	4,798
Argentina	1,016	1,261	1,371	1,128	946	1,125	1,121	1,304	1,318
SOYBEAN									
World	60,392	76,661	133,728	180,509	190,852	209,128	218,969	225,241	235,738
China	3,128	3,625	21,431	48,797	53,269	58,848	64,888	71,184	72,499
USA	23,158	27,523	34,631	36,414	37,153	40,807	40,743	40,918	44,959
Brazil	10,091	12,614	21,539	27,622	28,751	30,766	30,229	31,577	33,185
Argentina	1,740	6,631	19,246	26,456	29,134	31,480	34,141	31,963	27,757
Other meals**	32,667	46,448	52,697	62,841	64,122	63,649	60,556	65,729	66,250
Total all meals	108,433	146,840	215,778	295,459	310,735	325,877	332,448	345,888	357,699

* EU-15 until 2003,,
EU-25 2004-2006,
EU-27 2007-2012, then EU-28 from 2013

Sources: Oil World and Fediol

** Oilmeals (including cotton meal), fish meals,
corn gluten feed, corngerm meal

- Calendar year
- In 1,000 tonnes



	1983	1993	2003	2013	2014	2015	2016	2017	2018
COLZA									
World	8,292	14,585	19,155	36,547	38,086	36,548	35,347	34,870	35,394
EU*	1,971	4,211	5,339	13,645	13,243	13,235	13,135	13,034	13,281
China	2,811	3,400	6,115	9,251	9,069	7,925	6,779	6,311	6,700
India	1,037	2,172	1,479	2,500	2,556	2,190	2,889	3,080	3,375
USA	66	704	1,425	3,944	4,348	4,490	4,558	4,414	4,181
SUNFLOWER									
World	7,115	9,280	10,156	15,459	17,616	16,699	17,511	19,926	19,999
EU*	2,238	3,470	3,666	6,105	7,232	6,874	6,895	7,793	7,764
Russia	-	-	1,141	2,025	2,344	2,318	2,761	3,285	3,295
Turkey	286	454	594	1,434	1,776	1,647	1,678	2,022	1,977
Argentina	87	90	140	728	687	585	479	499	530
China	578	575	513	532	523	534	536	505	899
Soybean									
World	60,429	76,020	133,355	180,335	190,224	208,965	216,659	226,926	234,507
EU*	17,903	20,180	30,924	26,332	27,664	29,136	30,109	30,343	30,212
USA	16,616	22,124	29,079	26,350	27,194	29,757	30,348	30,461	32,467
Brazil	2,205	3,720	7,839	14,421	14,925	15,921	15,633	16,632	16,930
China	2,460	3,250	20,843	47,458	51,248	57,126	62,509	69,922	71,488
Other meals**	32,654	46,795	52,929	62,799	64,181	63,385	61,029	63,755	65,702
Total all meals	108,490	146,680	215,595	295,140	310,107	325,597	330,546	345,477	355,602

* EU-15 until 2003,

EU-25 2004-2006,

EU-27 2007-2012, then EU-28 from 2013

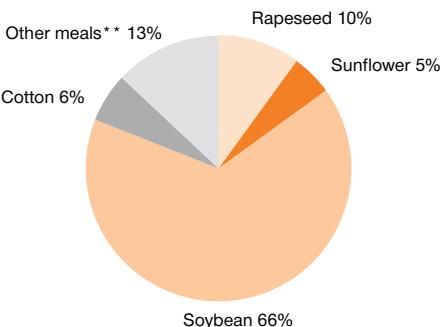
Sources: Oil World and Fediol

** Oilmeals (including cotton meal), fish meals,
corn gluten feed, comgerm meal

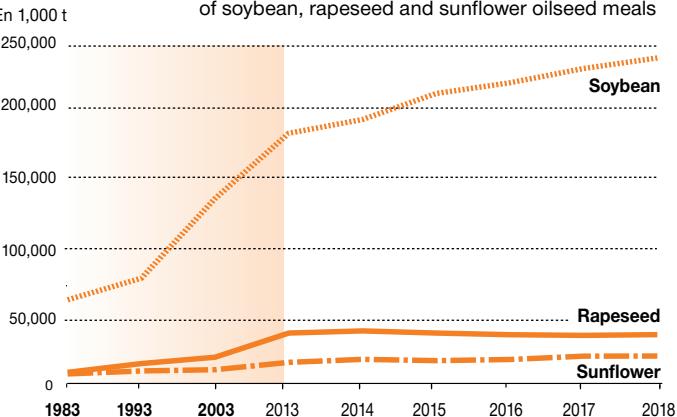
- Calendar year
- In 1,000 tonnes

▲ Breakdown of world consumption
of meals in 2018

Total: 355,602 KT



▲ Change to the world consumption
of soybean, rapeseed and sunflower oilseed meals



WORLD

Production of biodiesel

Production

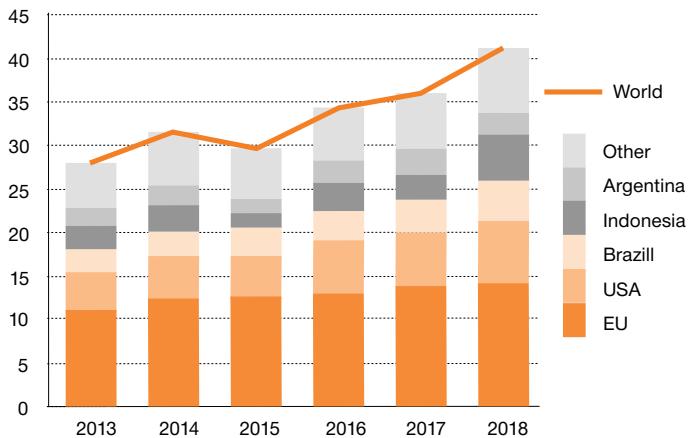
	2013	2014	2015	2016	2017	2018
World	28.01	31.47	29.64	34.30	36.05	41.18
UE	10.71	12.27	12.45	12.87	13.83	14.11
USA	4.77	4.80	4.77	6.25	6.15	7.19
Brazil	2.56	3.00	3.46	3.33	3.75	4.68
Indonesia	2.60	2.92	1.22	3.18	2.92	5.37
Argentina	2.00	2.58	1.81	2.66	2.87	2.43
Other	5.37	5.90	5.93	6.01	6.53	7.40

Source: Oil World

- Calendar year
- In millions of tonnes

In millions of tonnes

▲ Change to the world production
of biodiesel between 2013 and 2018



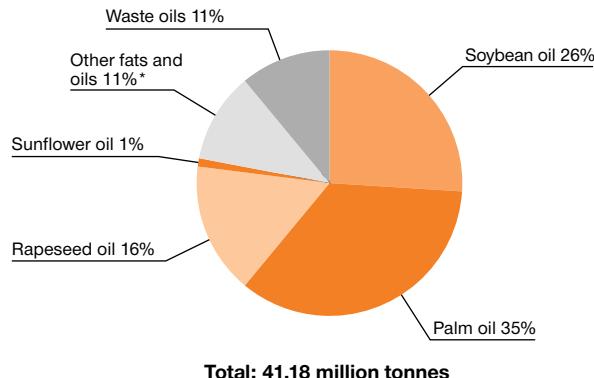
Raw materials used

	2013	2014	2015	2016	2017	2018
Soybean oil	7.07	8.06	7.63	9.18	9.73	10.53
Palm oil	9.12	10.21	8.60	10.62	11.10	14.47
Rapeseed oil	6.25	7.12	6.93	6.84	6.94	6.68
Sunflower oil	0.14	0.22	0.14	0.27	0.48	0.51
Other fats and oils*	3.06	3.20	3.32	3.75	3.96	4.65
Waste oils	2.38	2.65	3.03	3.64	3.85	4.34

* coconut oil, tallow, other

Source: Oil World

▲ Breakdown of raw materials used
for the world production of biodiesel in 2018



Production

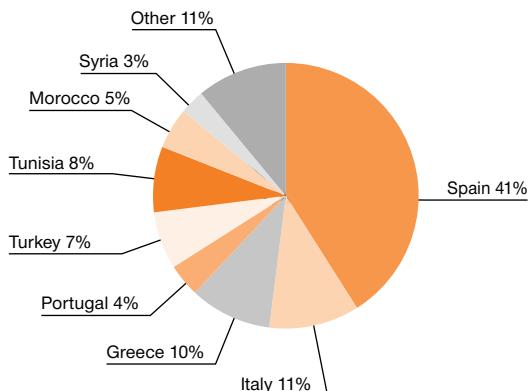
	1993	2003	2013	2014	2015	2016	2017	2018
World	1,980	2,903	2,802	3,365	2,989	2,921	3,054	3,387
Spain	655	1,178	1,088	1,786	1,222	1,170	1,470	1,397
Italy	483	581	442	401	320	423	273	354
Greece	322	419	296	183	323	320	260	337
Portugal	34	34	77	104	89	103	83	142
France	2	4	5	5	2	5	4	6
Turkey	69	152	186	160	171	173	220	252
Tunisia	160	164	189	180	301	144	161	268
Morocco	45	69	118	137	135	135	131	174
Syria	87	164	152	136	118	125	116	106

Source: Oil World

- Calendar year
- In 1,000 tonnes

▲ Breakdown of the world production of olive oil in 2018

TOTAL: 3,387 KT



Consumption

	1993	2003	2013	2014	2015	2016	2017	2018
World	2,092	2,824	3,092	3,208	3,058	3,160	3,082	3,212
Spain	462	695	607	638	550	556	524	518
Italy	699	775	650	633	563	573	504	576
Greece	205	315	161	113	111	120	122	129
France	39	100	113	113	106	113	112	119
UK	13	47	64	67	73	73	77	67
Portugal	49	70	81	80	62	67	65	71
Germany	12	38	64	66	66	66	61	61
USA	118	218	305	308	314	323	322	331
Turkey	62	80	152	149	152	159	167	182
Morocco	46	71	117	123	131	132	130	137
Syria	79	131	140	139	115	108	99	82

Source: Oil World

- Calendar year
- In 1,000 tonnes

PROTEIN-RICH PLANTS

- By harvest year
- Land areas in ha
- Yield in quintals/ha
- Production and collection in tonnes

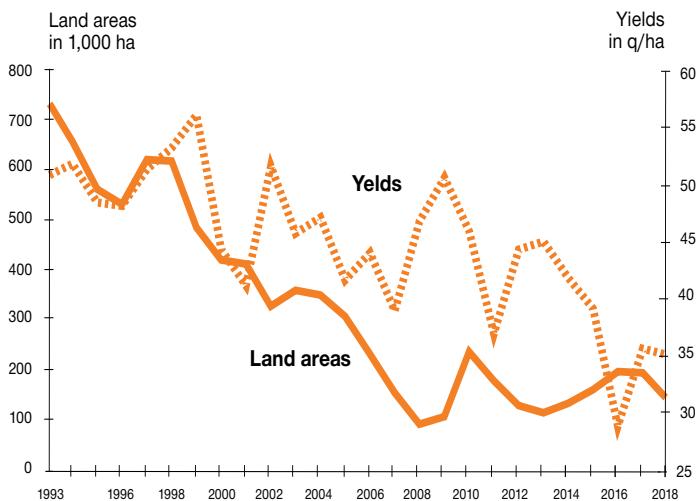
	1993	2003	2013	2014	2015	2016	2017	2018
PEA (1)								
Land area	737,500	363,400	118,000	137,200	164,500	200,800	198,400	148,700
Yield	51.0	45.9	45.2	42.0	39.3	29.0	35.8	35.3
Production	3758,000	1,670,000	533,000	576,000	646,000	582,000	710,000	525,000
Collection (2)	3,360,000	1,385,000	368,000	372,000	477,000	396,000	554,000	428,000
FABA BEAN								
Land area	12,800	80,500	68,000	76,400	91,300	82,000	82,400	60,700
Yield	36.2	36.2	38.9	41.2	31.2	30.5	25.7	24.9
Production	46,500	291,000	265,000	315,000	285,000	250,000	212,000	151,000
Collection (2)	28,500	200,000	192,500	202,000	186,000	155,000	129,000	71,000
LUPIN								
Land area	3,450	12,450	2,900	4,300	7,100	8,400	6,300	3,700
Yield	35	25	24	28.5	25	22	23.5	24
Production	12,000	31,000	7,000	12,300	17,800	18,500	14,800	8,900
Collection (2)	6,000	4,850	2,700	6,300	12,000	12,000	6,500	3,400
PROTEIN-RICH PLANTS								
Land area	753,750	456,350	188,900	217,900	262,900	291,200	287,100	213,100
Yield	50.6	43.7	42.6	41.5	36.1	29.2	32.6	321
Production	3,816,500	1,992,000	805,000	903,300	948,800	850,500	936,800	684,900
Collection (2)	3,394,500	1,589,850	563,200	580,300	675,000	563,000	689,500	502,400

(1) Pea = dried peas

(2) Not including seeds and on-farm consumption

Sources: Terres Univia with ONIOL/ONIGC/FranceAgriMer (land areas)
and UNIP/Arvalis/Terres Inovia/SSP (yields)

▲ Change to land areas and yields in pea

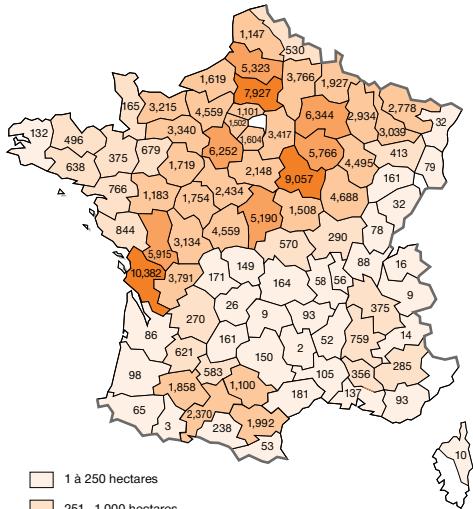


FRANCE

Land areas in 2018 for pea, faba bean and lupin

Pea

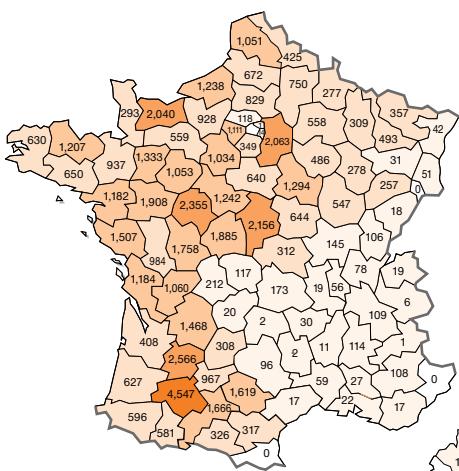
Land area 2018
Total: 148,700 hectares



- 1 à 250 hectares
- 251 - 1,000 hectares
- 1,001 - 5,000 hectares
- 5,001 - 7,500 hectares
- + de 7,500 hectares

Faba bean

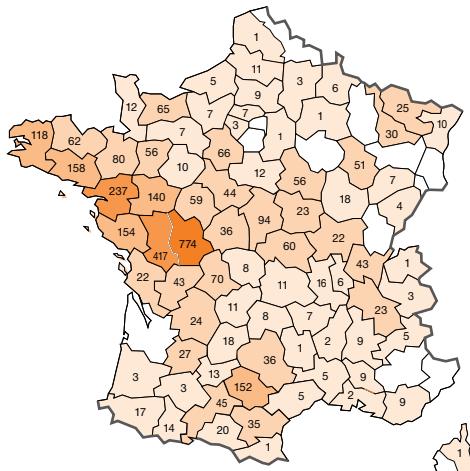
Land area 2018
Total: 60,700 hectares



- 1 à 250 hectares
- 251 - 1,000 hectares
- 1,001 - 5,000 hectares
- 5,001 - 7,500 hectares
- + de 7,500 hectares

Lupin

Land area 2018
Total: 3,700 hectares



- 1 à 20 hectares
- 21 - 100 hectares
- 101 - 300 hectares
- 301 - 500 hectares
- + de 500 hectares

Source: Terres Univia according to FranceAgriMer

Balances on pea

(1,000 t)	2016/17	2017/18	2018/19
Production	582	710	525
Land areas (1,000 ha)	201	198	149
Yield (q/ha)	29.0	35.8	35.3
Initial stock	66	76	162
Imports	78	56	45
Total RESOURCES	726	842	732
Domestic uses	345	383	424
Seed (1)	46	34	41
Livestock feed (2)	169	219	243
Human foods and non-food ingredients	130	130	140
Exports	305	297	227
To EU (3)	120	175.5	209
To other countries (4)	185	121.5	18
Total USES	650	680	651
Final stock	76	162	81

Balances on faba bean

(1,000 t)	2016/17	2017/18	2018/19
Production	250	212	151
Land areas (1,000 ha)	82.0	82.4	60.7
Yield (q/ha)	30.5	25.7	24.9
Initial stock	60	36	23
Imports	15	31	25
Total RESOURCES	325	279	199
Domestic uses	196	174	123
Seed (1)	18	13	14
Livestock feed (2)	168	151	99
Human foods (milling)	10	10	10
Exports	93	82	63
To EU (3)	31	24	13
To other countries (5)	62	58	50
Total USES	289	256	186
Final stock	36	23	13

1. Certified seeds and on-farm grain (estimate)
2. Livestock feed (mostly on-farm)
and other uses (intercrops and associated crops)
3. Livestock feed and feed ingredients
4. Mainly India (human foods)
5. Mainly Norway (aquaculture)

Sources: Terres Univia according to Customs and FranceAgriMer

FRANCE

Exports and imports of pea and faba bean

Pea exports

	2014/15	2015/16	2016/17	2017/18	2018/19
Destination:					
EU	137,485	117,970	119,993	175,592	208,911
Incl. Belgium	61,780	64,400	69,799	101,779	127,441
Incl. Netherlands	9,727	9,601	6,065	28,997	24,962
Incl. Spain	9,934	5,299	6,759	11,353	10,748
Incl. Italy	26,934	22,106	24,679	22,122	8,980
Incl. UK	6,296	3,071	2,687	1,252	28,655
Non EU	35,931	215,651	184,774	121,648	17,747
Incl. India	3,532	189,772	172,442	78,900	2
Incl. China	1,040	7,197	780	30,000	2,589
Incl. Switzerland	12,001	4,754	6,243	7,886	6,300
Incl. Norway	14,106	12	5	2,184	6,213
Total	173,416	333,621	304,767	297,240	226,658

• Harvest year
• In 1,000 tonnes

Faba bean exports

	2014/15	2015/16	2016/17	2017/18	2018/19
Destination:					
EU	10,910	15,642	31,069	24,183	13,282
Incl. Italy	6,097	4,955	9,195	7,834	4,668
Incl. Netherlands	516	2,698	8,702	6,896	3,679
Incl. Belgium	2,678	4,130	9,439	5,229	2,830
Incl. Spain	1,546	2,591	2,778	3,585	2,056
Incl. UK	14	10	51	31	2
Non EU	112,431	77,195	61,444	58,126	49,924
Incl. Norway	25,352	46,364	55,598	47,570	41,056
Incl. Egypt	87,034	30,796	5,791	8,214	6,192
Incl. Saudi Arabia	0	0	0	0	2,590
Total	123,341	92,837	92,513	82,309	63,206

Source: Terres Univia according to Eurostat

Pea imports

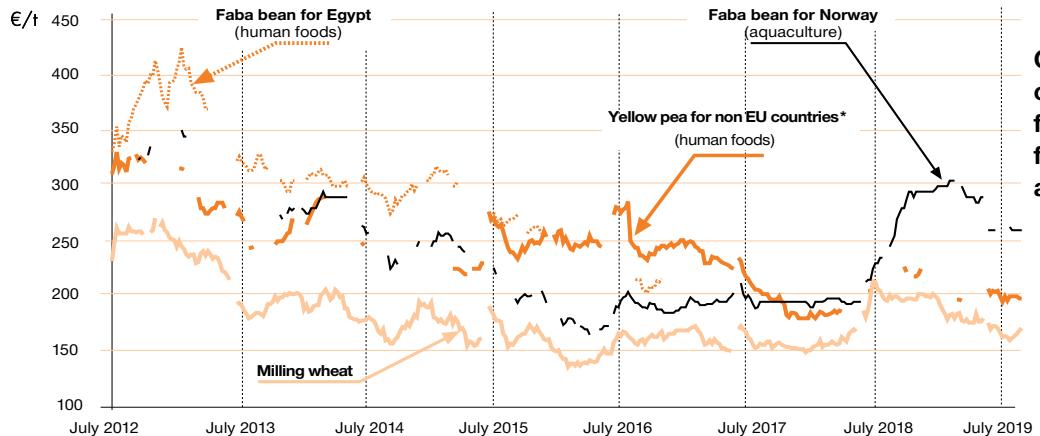
	2014/15	2015/16	2016/17	2017/18	2018/19
Origin:					
EU	2,998	7,761	28,274	46,981	42,417
Incl. Sweden	0	2,725	15,140	25,178	16,141
Incl. Lithuania	48	24	1,288	14,455	7,519
Incl. Belgium	737	1,140	5,460	1,165	1,424
Non EU	3,812	1,523	49,295	9,302	2,145
Incl. Canada	1,826	160	47,932	7,854	180
Total	6,810	9,284	77,569	56,283	44,562

• Harvest year
• In 1,000 tonnes

Faba bean imports

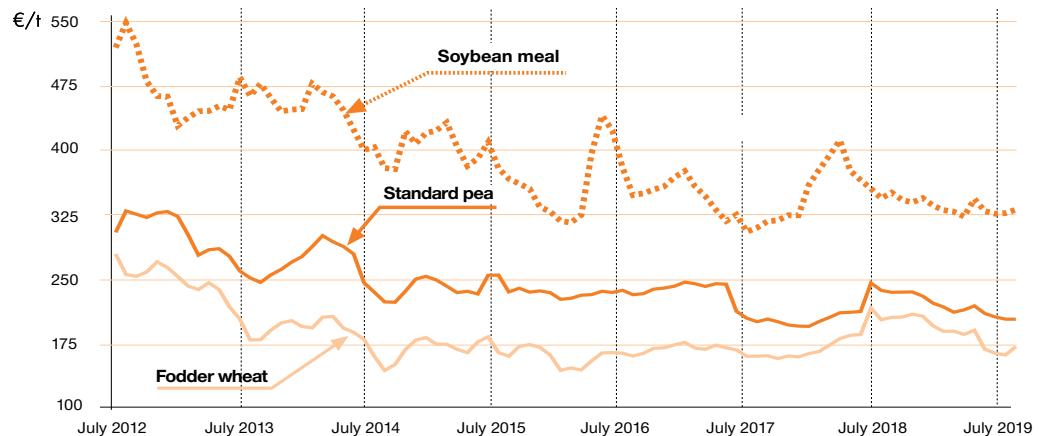
	2014/15	2015/16	2016/17	2017/18	2018/19
Origin:					
EU	12,601	14,853	14,609	30,726	24,430
Incl. UK	183	3,033	7,248	25,713	2,2,030
Incl. Danemark	6,600	2,953	3,000	0	0
Incl. Lithuania	3,697	3,554	999	10	21
Incl. Italy	883	1,273	1,551	763	1,371
Non EU	603	379	467	569	453
Total	13,204	15,232	15,076	31,295	24,883

Source: Terres Univia according to Eurostat



Comparison of prices of yellow pea, faba bean for human consumption, faba bean for fodder and milling wheat

▲ Delivered Rouen,
not including monthly increases
* mainly India



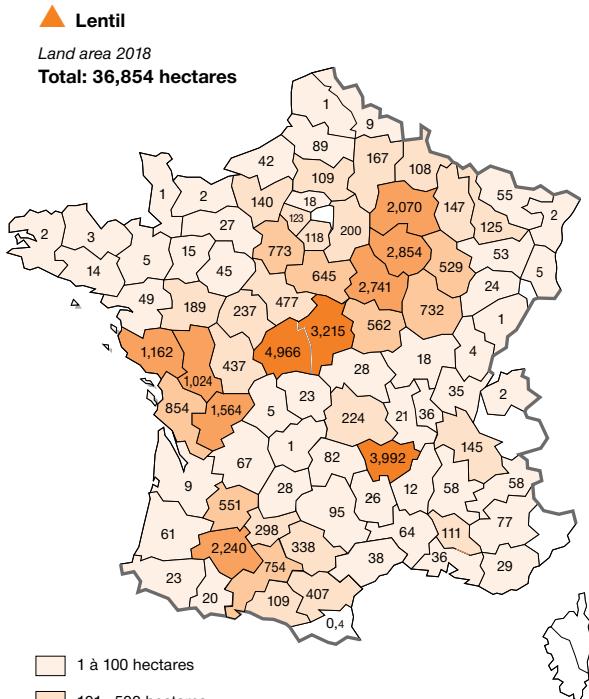
Comparison of prices of pea, fodder wheat and soybean meal

▲ Delivered Brittany
for livestock feed,
monthly increases included
(pea and wheat)

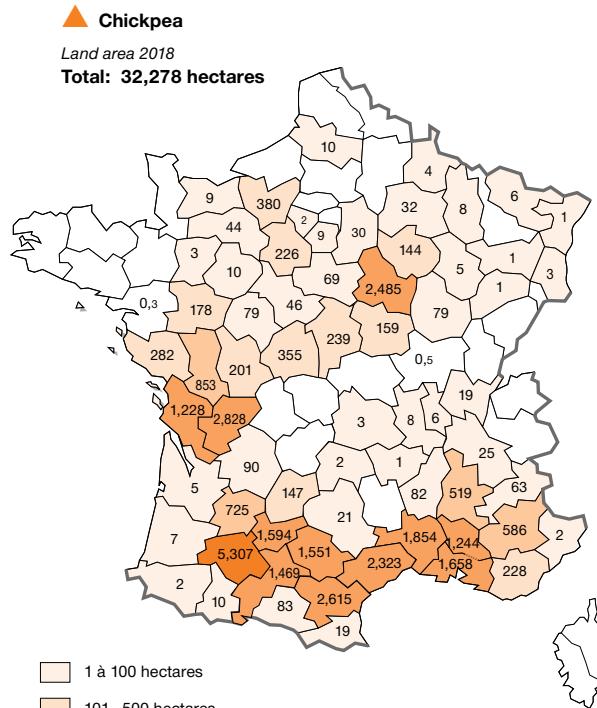
DRY LEGUMES

FRANCE

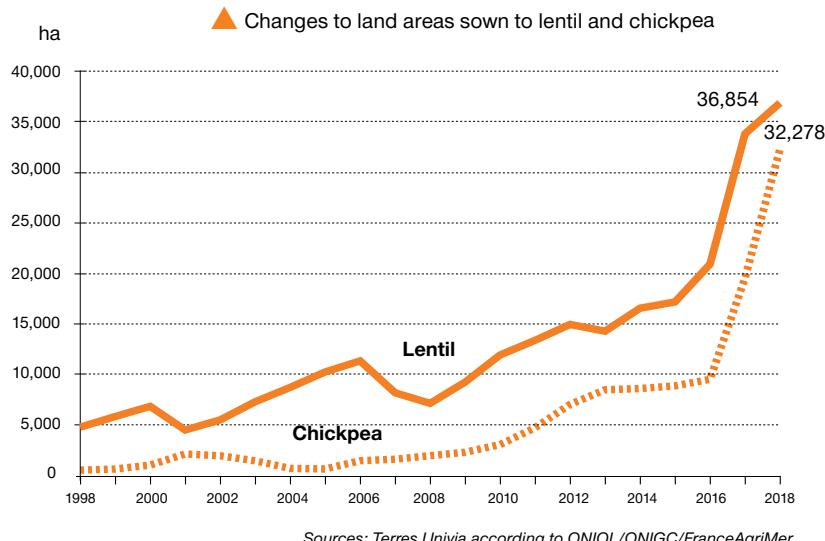
Land areas sown to lentil and chickpea



Source: Terres Univia according to FranceAgriMer



Source: Terres Univia according to FranceAgriMer



Imports of lentil

Origin	2014	2015	2016	2017
EU	2,066	1,219	1,872	2,678
Non EU	27,779	30,542	26,016	26,395
Incl. Canada	13,819	12,438	10,227	13,110
Incl. China	10,925	14,176	10,175	7,049
Incl. Turkey	1,649	2,121	2,552	3,546
Incl. USA	1,125	1,612	2,203	1,747
Total	29,845	31,761	27,888	29,073

- Calendar year
- In tonnes

Source: Terres Univia according to Eurostat

Imports of chickpea

Origin	2014	2015	2016	2017
EU	1,159	1,224	2,845	2,634
Non EU	4,617	3,087	5,084	8,875
Incl. USA	1	38	178	4,945
Incl. India	2,622	2,001	1,878	863
Incl. Argentina	310	0	509	1,183
Incl. Mexico	1,342	630	1,339	1,484
Total	5,776	4,311	7,929	11,509

- Calendar year
- In tonnes

Source: Terres Univia according to Eurostat

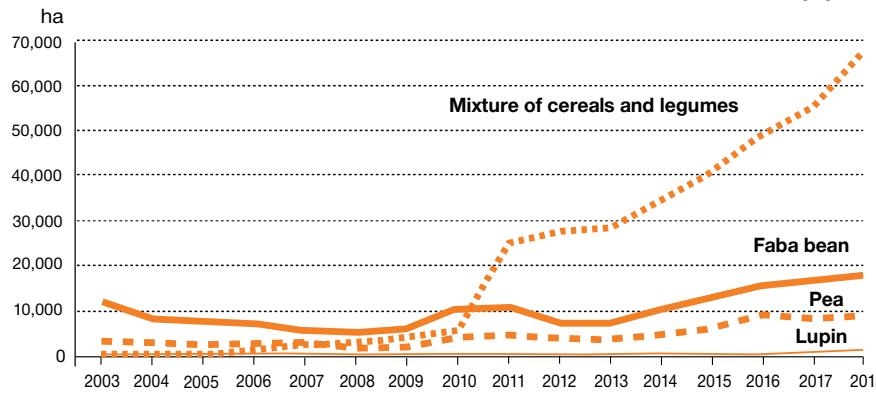
Exports in 2017 concerned 5,803 tonnes of lentil and 14,070 tonnes of chickpea.

FRANCE

Land sown to organic pea, faba bean, lupin, lentil and chickpea

	2003	2013	2014	2015	2016	2017	2018
PEA	3,311	4,116	5,120	6,485	9,334	8,563	9,693
Incl. certified organic*	2,111	3,397	3,964	4,135	4,614	4,631	5,564
Incl. conversions**	1,200	719	1,156	2,350	4,720	3,932	4,129
FABA BEAN	12,279	7,313	10,711	12,734	16,092	17,051	18,221
Incl. certified organic*	7,433	6,296	8,952	9,374	9,687	10,057	11,942
Incl. conversions**	4,846	1,017	1,759	3,360	6,405	6,994	6,279
LUPIN	778	296	515	563	643	1,047	1,124
Incl. certified organic*	529	281	460	384	413	842	883
Incl. conversions**	249	15	55	179	230	205	241
LENTIL	-	3,981	4,869	5,107	5,845	8,301	12,608
Incl. certified organic*	-	3,914	4,811	4,995	5,519	7,402	11,407
Incl. conversions**	-	67	58	112	326	899	1,201
CHICKPEA	-	903	1,012	1,491	2,325	4,637	8,126
Incl. certified organic*	-	736	904	1,248	2,009	4,102	6,969
Incl. conversions**	-	167	108	243	316	535	1,157

Source: Agence Bio according to data from certifying agencies



• Land areas in hectares

* Plots certified as organic (managed organically for more than two years)

*Land areas in conversion = C1 + C2.

C2: plots in second year of conversion (second year of organic management): can be used for livestock feeds.

C1: plots in first year of conversion; destined for the conventional sector.

▲ French land used for the organic*** cultivation of pea, fababean, lupin and cereal-legume mixtures

*** Organic: plots certified as organic and plots under conversion (C1+C2+C3)

Source: Terres Univia according to Agence Bio

Land areas, yields and production of protein-rich plants

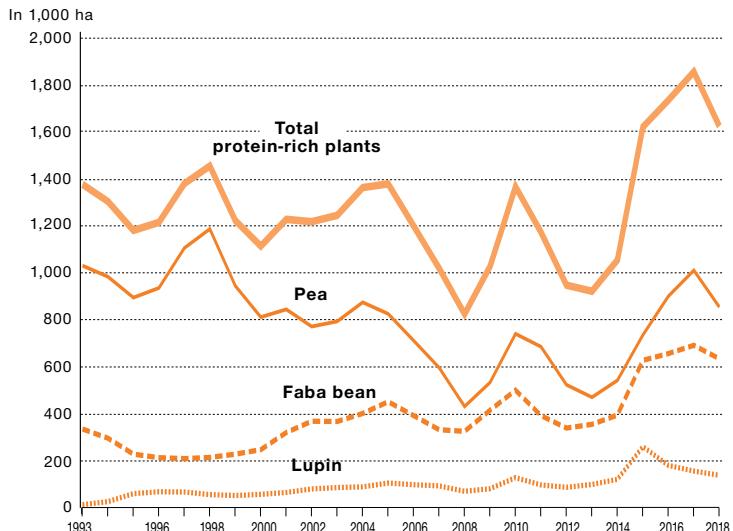
	1993	2003	2013	2014	2015	2016	2017	2018
GERMANY								
Land area	89	202	72	84	146	155	161	149
Yield	32.6	25.9	30.8	33.9	30.7	31.9	33.5	25.4
Production	290	521	221	283	449	494	540	380
SPAIN								
Land area	30	163	143	167	216	206	214	177
Yield	10	13.1	15.4	11.0	12.1	16.1	11.1	17.6
Production	30	215	221	184	262	331	238	312
FRANCE								
Land area	753	456	189	218	263	291	287	213
Yield	50.6	43.7	42.6	41.5	36.1	29.2	32.6	32.1
Production	3 811	1 992	805	903	949	851	937	685
ITALY								
Land area	93	58	56	55	57	68	72	81
Yield	16	17	19	19	19	21	20	24
Production	146	95	104	102	111	144	146	191
UK								
Land area	244	242	147	139	214	228	233	196
Yield	38.7	38.7	33.7	41.3	43.0	36.7	40.0	26.7
Production	944	937	496	574	920	837	931	523
SWEDEN								
Land area	-	28	30	33	47	55	54	48
Yield	-	31	34	32	38	36	35	17
Production	-	87	102	108	182	197	192	84
LITHUANIA								
Land area	-	-	35	66	144	220	224	179
Yield	-	-	20	25	30	28	30	20
Production	-	-	71	167	426	612	683	366
EU								
Land area	1,375	1,243	920	1,053	1,619	1,733	1,854	1,622
Yield	42.2	33.2	27.4	28.1	27.3	26.6	27.7	22.0
Production	5,795	4,127	2,524	2,960	4,415	4,615	5,137	3,570

Sources: Terres Univia (provisional for 2018) with Eurostat.

Professional and national sources.

- Harvest year
- Land areas in 1,000 ha, yields in q/ha, production in 1,000 tonnes
(pea + faba bean + lupin)

▲ Change to land areas sown to pea, faba bean and lupin
(in EU-15 until 2003, EU-25 2004-2006, EU-27 2007-2012,
then EU-28 from 2013)



Land areas, yields and production of pea and faba bean

Pea

	1993	2003	2013	2014	2015	2016	2017	2018
GERMANY								
Land area	59	136	38	42	79	88	86	71
Yield	30.2	28.8	34.3	37.2	35.0	33.1	34.9	27.9
Production	178	392	130	155	277	290	298	197
SPAIN								
Land area	10	105	122	139	162	155	174	150
Yield	12.2	14.1	15.6	10.2	12	17.6	10.7	17.8
Production	12	148	191	142	193	274	186	266
FRANCE								
Land area	737	363	118	137	164	201	198	149
Yield	51.0	45.9	45.2	42.0	39.3	29.0	35.8	35.3
Production	3,758	1,670	533	576	646	582	710	525
ITALY								
Land area	9	10	10	10	11	14	17	19
Yield	31	30	23	23	23	28	29	31
Production	29	30	22	23	26	40	49	60
UK								
Land area	81	70	29	32	44	51	40	38
Yield	41	39	37	39	41	36	40	30
Production	332	273	107	126	180	186	160	113
SWEDEN								
Land area	-	24	12	15	22	25	24	22
Yield	-	33	33	32	37	37	34	23
Production	-	79	41	47	83	93	82	49
LITHUANIA								
Land area	-	-	24	41	79	149	154	106
Yield	-	-	21	25	29	27	29	20
Production	-	-	51	101	229	398	449	214
ESTONIA								
Land area	-	-	13	17	22	39	39	30
Yield	-	-	23	21	26	19	13	18
Production	-	-	31	34	59	72	50	54
EU								
Land area	1 029	792	469	541	734	899	1 009	853
Yield	46.8	36.0	28.6	27.3	28.1	26.1	26.9	22.9
Production	4,814	2,847	1,340	1,476	2,063	2,347	2,710	1,957

Faba bean

	1993	2003	2013	2014	2015	2016	2017	2018
GERMANY								
Land area	30	20	17	21	38	39	46	55
Yield	37.3	30.4	36.2	42.7	35.4	39.6	40.7	29.1
Production	112	61	60	88	133	154	189	161
SPAIN								
Land area	17	44	18	23	50	47	37	25
Yield	10.2	12.9	15.9	16.8	13.1	11.4	13.3	17.6
Production	17	57	28	39	66	54	49	43
FRANCE								
Land area	13	81	68	76	91	82	82	61
Yield	36.2	36.2	38.9	41.2	31.2	30.5	25.7	24.9
Production	47	291	265	315	285	250	212	1
ITALY								
Land area	81	44	43	41	42	50	51	58
Yield	14	13.5	18.3	18.2	18.9	19.9	18.2	21.6
Production	113	60	78	75	80	100	93	125
UK								
Land area	163	165	118	107	170	177	193	158
Yield	37.5	39.0	33.0	41.9	43.5	36.8	39.9	25.9
Production	612	644	389	448	740	651	771	410
LITHUANIA								
Land area	-	-	7	22	61	68	67	70
Yield	-	-	-	24.3	28.8	31.4	31.0	21.5
Production	-	-	17	63	193	209	230	150
EU								
Land area	334	366	354	393	626	655	690	633
Yield	28.9	31.2	29.1	32.5	31.7	30.1	31.4	22.7
Production	968	1,144	1,030	1,275	1,987	1,973	2,169	1,439

• Harvest year

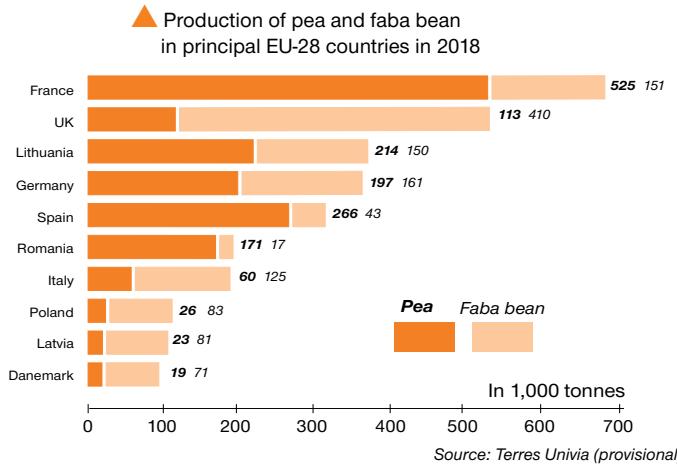
• Land areas in 1000 ha,

• Yields in q/ha, production in 1000 tonnes (pea + faba bean + lupin)

• EU-15 until 2003, EU-25 2004-2006, EU-27 2007-2012, then EU-28 from 2013

Sources: Terres Univia (provisional for 2018) with Eurostat. Professional and national sources.

Production, export and import of pea and faba bean



Exports of pea to non EU countries in 2017/18

• In harvest year • In 1,000 tonnes • EU-28

Destination	Non EU	Incl. India	Incl. Bangladesh	Incl. Norway	Incl. China
Origin EU	677	433	53	69	36
Incl. Romania	226	212			
Incl. Lithuania	219	141	53	24	
Incl. France	122	79		2	30
Incl. Estonia	29			29	
Incl. Latvia	7	1		4	

Source: Terres Univia according to Eurostat

Imports of pea from non EU countries in 2017/18

• In harvest year • In 1,000 tonnes • EU-28

Destination	EU	Incl. Spain	Incl. Italy	Incl. Netherlands	Incl. France
Origin Non EU	427	214	104	22	9
Incl. Russia	295	168	87	11	
Incl. Ukraine	55	30	6	3	
Incl. Canada	25	1	2	1	8
Incl. Kazakhstan	21	15			

Source: Terres Univia according to Eurostat

For faba bean, imports by the EU of grain from other countries are marginal: 9500 tonnes in 2017/18

Exports of faba bean to non EU countries in 2017/18

• In harvest year • In 1,000 tonnes • EU-28

Destination	Non EU	Incl. Egypte	Incl. Norway	Incl. Soudan	Incl. Morocco
Origin EU	407	254	114	28	6
Incl. Lithuania	114	105	8		
Incl. UK	112	57	23	28	
Incl. Latvia	85	77	5		3
Incl. France	58	8	48		2
Incl. Denmark	15			15	

Source: Terres Univia according to Eurostat

Production of dehydrated and dried fodder

- Dry fodder (dehydrated or sun-dried)
- In 1,000 tonnes

	2013	2014	2015	2016	2017	2018
France	720	810	726	745	870	759
Spain	1,650	1,469	1,450	1,528	1,450	1,350
Italy	585	716	700	650	710	690
Denmark	20	0	—	—	—	—
Netherlands	90	108	100	100	130	110
Germany	199	244	150	175	221	200
UK	42	38	35	38	31	31
Total	3,306	3,385	3,161	3,236	3,412	3,140

Sources: CIDE/Coop de France Dehydration
(data incomplete, not available for other EU countries)

Land sown to chickpea

- In harvest year
- In ha
- EU-15 until 2003, EU-25 2004-2006, EU-27 2007-2012, then EU-28 from 2013

	1993	2003	2013	2014	2015	2016	2017	2018
Spain	24,800	74,723	27,300	38,600	37,900	33,700	51,900	70,200
Portugal	505	5,289	786	920	1,630	1,765	1,133	—
Greece	734	1,255	3,562	5,215	7,814	7,873	6,004	—
Italy	27	8,382	8,259	9,037	11,626	13,940	20,025	—
France	237	1,471	8,506	8,627	8,893	9,538	19,548	32,278
Other	0	15	2,561	1,056	2,987	5,553	23,282	—
EU	26,303	91,135	50,974	63,455	70,850	72,369	121,892	—

Source: Terres Univia from EU Commission up to 2004 (land applying for EU support)
and FranceAgriMer/FAO/others (2018: data incomplete)

Land sown to lentil

- In harvest year
- In ha
- EU-15 until 2003, EU-25 2004-2006, EU-27 2007-2012, then EU-28 from 2013

	1993	2003	2013	2014	2015	2016	2017	2018
Spain	23,000	26,766	31,500	31,400	29,700	26,400	36,500	44,100
Greece	183	703	5,566	5,040	6,611	7,818	7,967	—
Italy	272	2,285	2,643	2,463	3,099	3,215	4,981	—
France	3,983	7,298	14,293	16,568	17,186	20,924	33,803	36,854
Other	0	32	1,723	457	1,911	4,442	5,048	—
EU	27,438	37,084	55,725	55,928	58,507	62,799	88,299	—

Source: Terres Univia from EU Commission up to 2004 (land applying for EU support)
and FranceAgriMer/FAO/others (2018: data incomplete)

Production of dried pea

• In 1,000 tonnes, principal producing countries

	93/94	03/04	13/14	14/15	15/16	16/17	17/18	18/19
China	1,000	1,400	1,266	1,350	1,267	1,375	1,523	—
India	550	730	843	925	889	742	733	—
Pakistan	71	54	31	30	31	32	29	—
Canada	970	2,124	3,961	3,810	3,201	4,836	4,112	3,581
Australia	558	407	342	290	205	415	317	152
USA	195	229	709	817	873	1,264	644	723
Russia	2,526	1,052	1,350	1,503	1,716	2,199	3,286	2,207
Ukraine	2,731	460	267	359	380	750	1,050	1,102
Czech Republic	202	54	31	43	78	69	87	71
Hungary	140	30	45	46	64	47	48	32
France	3,758	1,670	533	576	646	582	710	525
UK	332	273	107	126	180	186	160	113
Germany	178	392	130	155	277	290	298	197
Spain	12	148	191	142	193	274	186	266
Lithuania	14	22	51	101	229	398	449	214
WORLD	14,880	10,202	11,314	11,705	11,757	15,109	15,654	—

Sources: Terres Univia with FAO, STAT Publishing, ABARE, European professional sources and Eurostat (data incomplete for 2018/19).

Production of faba bean and field bean

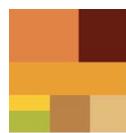
• In 1,000 tonnes, principal producing countries

	93/94	03/04	13/14	14/15	15/16	16/17	17/18	18/19
China	1,750	2,142	1,456	1,429	1,500	1,628	1,803	—
Ethiopie	312	430	992	839	935	878	931	—
UK*	612	644	389	448	740	651	771	410
Morocco	16	103	157	167	90	27	93	—
Egypte	438	337	158	134	120	119	113	—
Italy*	113	60	78	75	80	100	93	125
Tunisia	35	36	69	54	42	67	64	—
Germany*	112	61	60	88	133	154	189	161
Spain*	17	57	28	39	66	54	49	43
France*	47	291	265	315	285	250	212	151
Australia*	135	277	328	296	301	484	416	217
Lithuania*	—	—	17	63	193	209	230	150
Canada*	—	—	22	108	82	54	100	91
WORLD	3,995	5,032	4,730	4,797	5,538	5,706	6,179	—

Sources: Terres Univia with FAO, STAT Publishing, ABARE, European professional sources and Eurostat (data incomplete for 2018/19)

*faba bean only.

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