



**HIGHLIGHTS OF THE ATTACHED ANALYSES OF THE
IMPORT AND EXPORT OF DAIRY PRODUCTS UP TO **DECEMBER 2018****

- *The mass of imports of dairy products in 2017 was 43.6 percent higher than in 2016. The increase from 2016 to 2017 was due to the increase in imports of four of the six categories of dairy products.*
- *The mass of imports of dairy products in 2018 was 17.7 percent lower than in 2017. The decrease from 2017 to 2018 is due to the decrease in imports of three of the six categories of dairy products.*
- *The mass of exports of dairy products in 2017 was 2.7 percent lower than in 2016.*
- *The mass of exports of dairy products in 2018 was 6.9 percent lower than in 2017. The decrease from 2017 to 2018 is due to the decrease in exports of three of the six categories of dairy products.*
- *The average f.o.b. export prices in January to December 2018, of three of the six different categories of dairy products, are higher than in 2017.*
- *The mass of imports and exports in 2017, showed that South Africa was a nett importer of milk and cream (04.01), concentrated milk (04.02), whey (04.04), butter (04.05) and cheese (04.06) and a nett exporter of buttermilk and yoghurt (04.03). The position in 2018 is the same.*
- *The pattern of import and export during each year (import and export per month during the year) differs from year to year as shown in Annexure B. In the second half of 2018, the mass of imports of five of the six types of dairy products, was lower than in the first half of 2018 while in the second half of 2017, the mass of imports of two of the six types of dairy products was lower than in the first half of 2017.*
- *The mass of sales by South Africa to the other members of the Southern African Customs Union (Botswana, Namibia, Lesotho and Swaziland), of each of the six categories of dairy products, was in 2018, higher than the mass of South African exports of the dairy products concerned.*
- *The exposure to foreign competition (that is imports plus exports) in 2015 was on a record high level. while the 2016 figure was much lower than the*



Import and export of dairy products up to December 2018

This report was compiled by the Office of SAMPRO and forms part of the industry information project of SAMPRO. The purpose of the project is to make market signals available to members and other interested parties, which is a pre-requisite for effective competition, as envisaged by the Competition Act.

All reports compiled by the Office of SAMPRO and all activities of the industry information project of SAMPRO, are designed and implemented in accordance with the Competition Act and independently from a commercial interest of any and all the members of SAMPRO.

INTRODUCTION

1. The import and export figures of dairy products from January to December 2018, were recently released by SARS.
2. In this document, a brief analysis of import and export is provided per tariff heading.
3. The pattern of imports and exports within each year (the distribution per month of the total imports and exports of the year) differs significantly from year to year as described in Annexure B. As a result, estimates of future imports and exports, based on historical figures as referred to in the previous paragraph, should be viewed with caution.

IMPORTS

4. The indices of the mass of imports in the years 2011 to 2018 are indicated in Table 1. (The mass of imports is indicated in Annexure A).

Table 1: Indices of the mass of imports per tariff heading (2002=100)

Heading	Description	2011	2012	2013	2014	2015	2016	2017	2018
04.01	Milk and cream, unsweetened	3 990	7 306	2 046	3 352	12 877	9 213	18 779	8 457
04.02	Milk, concentrated	72	120	65	89	114	95	144	135
04.03	Buttermilk powder, yoghurt	242	243	180	237	301	288	356	404
04.04	Whey, whey powder etc	119	117	141	120	118	90	97	152
04.05	Butter, butter spreads and butter oil	213	413	212	140	347	362	361	613
04.06	Cheese and curd	217	419	269	312	409	426	395	367
TOTAL		153	240	145	163	282	236	339	279

5. The mass of imports in 2017 was 43.6 percent higher than in 2016. The increase from 2016 to 2017 was due to the increase in imports of four of the six categories of dairy products.
6. The mass of imports in 2018 was 17.7 percent lower than in 2017. The decrease from 2017 to 2018 is due to the decrease in imports of three of the six categories of dairy products.
7. In Table 2, the mass of imports from January to December 2018, is compared with the mass of imports from January to December 2017.

Table 2: Imports from January to December 2018 and January to December 2017

Heading	Description	A 2018 Kg	B 2017 Kg	A as % of B
04.01	Milk and cream, unsweetened	17 642 842	39 175 443	45.0
04.02	Milk, concentrated	14 889 772	15 842 375	94.0
04.03	Buttermilk powder, yogurt	3 561 120	3 141 948	113.3
04.04	Whey, whey powder etc	12 048 155	7 673 604	157.0
04.05	Butter, butter spreads and butter oil	9 064 150	5 343 309	169.6
04.06	Cheese and curd	11 446 544	12 327 764	92.9
Total		68 652 583	83 504 443	82.2

8. The mass of imports of milk and cream (04.01), concentrated milk (04.02) and cheese and curd (04.06) are lower in the period January to December 2018, than in the previous year.
9. Table 3 indicates the indices of the average f.o.b. import prices in the years 2011 to 2018 (January to December).

Table 3: Indices of the average f.o.b. import prices per tariff heading (2002=100)

Heading	Description	2011	2012	2013	2014	2015	2016	2017	2018
04.01	Milk and cream, unsweetened	45	44	47	68	61	59	61	64
04.02	Milk, concentrated	200	206	291	326	237	252	247	236
04.03	Buttermilk powder, yoghurt	158	160	247	292	195	177	197	163
04.04	Whey, whey powder etc	263	299	367	447	411	371	401	376
04.05	Butter, butter spreads and butter oil	246	231	270	370	304	361	530	560
04.06	Cheese and curd	145	134	173	206	183	191	208	210

10. The average f.o.b. import prices of five of the six categories of dairy products in 2017 were higher than in 2016.
11. The average import price of three of the six categories of dairy products in 2018 (January to December) is lower than in 2017.
12. Table 4 indicates the average f.o.b. prices of the imported dairy products in the years 2011 to 2018 (January to December).

Table 4: Average f.o.b. import prices per tariff heading

Heading	Description	2011 R/kg	2012 R/kg	2013 R/kg	2014 R/kg	2015 R/kg	2016 R/kg	2017 R/kg	2018 R/kg
04.01	Milk and cream, unsweetened	5.66	5.55	5.95	8.50	7.65	7.44	7.65	8.00
04.02	Milk, concentrated	26.17	26.85	37.95	42.63	30.92	32.94	32.31	30.84
04.03	Buttermilk powder, yoghurt	22.78	23.03	35.55	42.09	28.06	25.56	28.39	23.51
04.04	Whey, whey powder etc	20.46	23.33	28.62	34.82	31.98	28.90	31.24	29.33
04.05	Butter, butter spreads and butter oil	32.01	29.99	35.05	48.14	39.56	46.88	68.89	72.84
04.06	Cheese and curd	43.41	40.02	51.90	61.70	54.94	57.22	62.19	62.92

13. The average import prices of three of the six different categories of dairy products decreased from 2017 to 2018 (January to December) as follows:
 - 04.02 4.6 percent,
 - 04.03 17.2 percent, and
 - 04.04 6.1 percent.
14. The average import prices of 04.01, 04.05 and 04.06 increased with 4.5 percent, 5.7 and 1.2 percent respectively from 2017 to 2018 (January to December).

EXPORTS

15. The indices of the mass of exports in the years 2011 to 2018 are indicated in Table 5. (The mass of exports is indicated in Annexure A).

Table 5: Indices of the mass of exports per tariff heading (2002=100)

Heading	Description	2011	2012	2013	2014	2015	2016	2017	2018
04.01	Milk and cream, unsweetened	162	219	227	256	227	178	141	133
04.02	Milk, concentrated	52	47	109	60	45	38	77	67
04.03	Buttermilk powder, yoghurt	950	1 332	2 012	2 348	1 660	1 330	1 140	1 318
04.04	Whey, whey powder etc	304	335	598	453	1 025	925	964	168
04.05	Butter, butter spreads and butter oil	65	68	77	122	98	88	71	81
04.06	Cheese and curd	50	53	64	76	89	88	79	92
TOTAL		122	153	205	207	179	146	142	132

16. Table 5 indicates that:

- The total mass of exports in 2017 was 2.7 percent lower than in 2016. The decrease is due to the decrease in exports of four of the six categories of dairy products; and
- The mass of exports in 2018 was 6.9 percent lower than in 2017. The decrease is due to the decrease in exports of three of the six categories of dairy products.

17. In Table 6, the mass of exports from January to December 2018, is compared with the mass of exports from January to December 2017.

Table 6: Exports from January to December 2018 and January to December 2017

Heading	Description	A 2018 Kg	B 2017 Kg	A as % van B
04.01	Milk and cream, unsweetened	17 009 995	18 044 769	94.3
04.02	Milk, concentrated	9 336 954	10 822 898	86.3
04.03	Buttermilk powder, yoghurt	12 785 725	11 053 751	115.7
04.04	Whey, whey powder etc	691 890	3 977 971	17.4
04.05	Butter, butter spreads and butter oil	1 232 997	1 087 716	113.4
04.06	Cheese and curd	4 199 938	3 639 588	115.4
Total		45 257 499	48 626 693	93.1

18. Table 6 indicates that the mass of exports of three of the categories of dairy products was lower in the period January to December 2018, than in the same period in 2017.

19. Table 7 indicates the indices of the average f.o.b. prices from 2011 to 2018 (January to December) of the exports of the six categories of dairy products.

Table 7: Indices of average f.o.b. export prices per tariff heading (2000 =100)

Heading	Description	2011	2012	2013	2014	2015	2016	2017	2018
04.01	Milk and cream, unsweetened	183	201	205	227	247	244	262	269
04.02	Milk, concentrated	140	145	116	179	184	220	247	217
04.03	Buttermilk powder, yoghurt	118	142	149	167	157	178	311	155
04.04	Whey, whey powder etc	124	119	196	188	133	322	168	236
04.05	Butter, butter spreads and butter oil	205	244	242	266	268	325	395	443
04.06	Cheese and curd	148	169	178	193	190	218	255	222

20. Table 7 indicates that:

- The average prices of exports of five of the six categories of dairy products in 2017 were higher than in 2016; and
- The average prices of exports of three of the six categories of dairy products in 2018 were higher than in 2017.

21. The average free-on-board f.o.b. export prices from 2011 to 2018 (January to December) are indicated in Table 8.

Table 8: Average f.o.b. export prices per tariff heading

Heading	Description	2011 R/kg	2012 R/kg	2013 R/kg	2014 R/kg	2015 R/kg	2016 R/kg	2017 R/kg	2018 R/kg
04.01	Milk and cream, unsweetened	7.61	8.39	8.55	9.45	10.30	10.16	10.93	11.20
04.02	Milk, concentrated	23.56	24.37	19.49	30.05	30.97	37.00	41.51	36.56
04.03	Buttermilk powder, yoghurt	14.07	16.97	17.76	19.97	18.76	21.27	37.12	18.45
04.04	Whey, whey powder etc	9.85	9.43	15.55	14.85	10.51	25.46	13.27	18.71
04.05	Butter, butter spreads and butter oil	31.11	37.06	36.75	40.37	40.66	49.40	59.94	67.27
04.06	Cheese and curd	35.43	40.44	42.47	46.11	45.50	52.00	60.86	53.15

22. The average export prices of three of the six different categories of dairy products increased from 2017 to 2018 (January to December) as follows:

- 04.01 2.4 percent;
- 04.04 40.9 percent; and
- 04.05 12.2 percent.

23. The average export prices of 04.02, 04.03 and 04.06 decreased with respectively 11.9 percent, 50.3 percent and 12.7 percent from 2017 to 2018.

RATIO BETWEEN IMPORTS AND EXPORTS

24. The mass of the imports as a percentage of the mass of exports of dairy products by South Africa, is a highly aggregated indication of the industry's international competitiveness. The ratios between the mass of imports and exports of the six categories of dairy products from 2011 to 2018, are indicated in Table 9.

Table 9: Mass of imports as a percentage of the mass of exports

Heading	Description	2011	2012	2013	2014	2015	2016	2017	2018
04.01	Milk and cream, unsweetened	40.0	54.3	14.7	21.4	92.5	84.3	217.1	103.7
04.02	Milk, concentrated	109.0	199.3	46.5	117.3	197.7	196.3	146.4	159.5
04.03	Buttermilk powder, yoghurt	23.1	16.6	8.2	9.2	16.5	19.7	28.4	27.9
04.04	Whey, whey powder etc	752.1	669.5	452.7	507.4	221.3	185.9	192.9	1 741.3
04.05	Butter, butter spreads and butter oil	317.8	591.1	266.7	111.4	344.1	396.7	491.2	735.1
04.06	Cheese and curd	293.2	536.5	286.6	281.2	314.2	330.3	338.7	272.5
TOTAL		103.3	90.2	112.6	50.6	56.5	115.4	171.7	151.7

25. As indicated in Table 9:

- The ratio between the total mass of imports and exports in 2017 in respect of one of the six categories of dairy products, was lower than in 2016, namely concentrated milk (04.02); and
- The ratio between the total mass of imports and exports in 2018 in respect of three of the six categories of dairy products, namely milk and cream (04.01), buttermilk and yogurt (04.03) and cheese and curd (04.06) is lower than in 2017.

EXPOSURE OF THE SOUTH AFRICAN DAIRY INDUSTRY TO FOREIGN COMPETITION

26. The sum of the mass of the imports and exports of dairy products by South Africa, is a highly aggregated indication of the exposure of the South African dairy industry to foreign competition and it is indicated in Table 10.

Table 10: Mass of imports and exports (2002=100)

YEAR	IMPORT		EXPORT		IMPORT PLUS EXPORT	
	TON	INDEX	TON	INDEX	TON	INDEX
2002	24 617.40	100.0	34 328.20	100.0	58 945.60	100.0
2003	24 458.80	99.4	22 905.20	66.7	47 364.00	80.4
2004	18 289.50	74.3	23 508.10	68.5	41 797.60	70.9
2005	30 771.40	125.0	17 216.00	50.2	47 987.40	81.4
2006	30 878.60	125.4	26 543.30	77.3	57 421.90	97.4
2007	44 313.00	180.0	18 516.50	53.9	62 829.50	106.6
2008	34 009.40	138.2	42 781.00	124.6	76 790.40	130.3
2009	32 373.40	131.5	41 770.70	121.7	74 144.10	125.8
2010	35 061.20	142.4	33 950.60	98.9	69 011.80	117.1
2011	37 714.40	153.2	41 817.10	121.8	79 531.50	134.9
2012	59 012.55	239.7	52 500.96	152.9	111 513.49	189.2
2013	35 673.76	144.9	70 481.90	205.3	106 155.66	180.1
2014	40 199.03	163.3	71 098.95	207.1	111 297.99	188.8
2015	69 353.98	281.7	61 296.87	178.6	130 650.85	221.6
2016	58 000.35	235.6	50 247.54	146.4	108 247.89	183.6
2017	83 504.44	339.2	48 626.69	141.7	132 131.14	224.2
2018	68 652.58	278.9	45 257.49	131.8	113 910.08	193.2

27. From Table 10 it is clear that the exposure to foreign competition of the South African dairy industry:
- Was in 2014, slightly lower than the record high of 2012 and the second highest in the period of thirteen years from 2002 to 2014;
 - Was in 2015, much higher than in the previous thirteen years (2002 to 2014);
 - Was in 2016, much lower than in the previous two years (2014 to 2015) but higher than in 2013;
 - Was in 2017, higher than all the previous years. Increased imports contributed to this high exposure to foreign competition; and
 - Was in 2018, higher than 2012, 2013, 2014 and 2016 and lower than 2015 and 2017. Increased imports contributed to this high exposure to foreign competition.
28. Table 11 indicates the mass of total sales to the Southern African Customs Union (SACU) member states, namely Botswana, Lesotho, Namibia and Swaziland (BLNS countries) in the period January to December 2018. Sales by South Africa to the other members of SACU, is not classified by SARS as export.

Table 11: Mass of sales to the BLNS countries compared to exports outside of SACU in the period January to September 2018

Heading	Description	(A) Sales To BLNS	(B) Exports to Countries Outside SACU	(A+B)=(C) Sales to BLNS plus exports outside SACU	A as % of C
		Kilogram			
04.01	Milk and cream, unsweetened	58 874 379	17 009 995	75 884 374	77.6
04.02	Milk, concentrated	36 936 552	9 336 954	46 273 506	79.8
04.03	Buttermilk powder, yogurt	25 039 920	12 785 725	37 825 645	66.2
04.04	Whey, whey powder etc	3 205 843	691 890	3 897 733	82.2
04.05	Butter, butter spreads and butter oil	1 349 904	1 232 997	2 582 901	52.3
04.06	Cheese and curd	6 100 206	4 199 938	10 300 144	59.2
Total		131 506 803	45 257 499	176 764 303	74.4

29. Table 11 indicates that:

- The mass of the total sales of dairy products by South Africa to the BLNS countries exceeded the mass of export. (Exports are sales to designations outside SACU); and
- The mass of the sales by South Africa to members of SACU, of each of the six categories of dairy products, exceeded the mass of export by South Africa.

**MARIETJIE LE ROUX
DE WET JONKER
ALWYN P KRAAMWINKEL
26 March 2019**

Table 1: Import and Export by heading in kg

Heading	Description	Import	Export	Import	Export	Import	Export
		2002 Kg	2002 Kg	2003 Kg	2003 Kg	2004 Kg	2004 Kg
04.01	Milk and cream, unsweetened	208 613	12 801 289	684 821	9 640 776	1 526 416	9 190 414
04.02	Milk, concentrated	11 018 625	14 039 210	6 703 019	7 452 953	3 067 368	5 972 199
04.03	Buttermilk powder, yoghurt	882 034	969 846	1 077 191	2 161 584	850 505	2 076 324
04.04	Whey, whey powder etc	7 906 468	412 723	6 271 924	268 045	6 777 606	2 628 212
04.05	Butter, butter spreads and butter oil	1 479 363	1 526 319	4 629 804	996 146	1 800 706	788 997
04.06	Cheese and curd	3 122 250	4 578 773	5 092 997	2 385 733	4 266 915	2 851 990
	Total	24 617 353	34 328 160	24 459 756	22 905 237	18 289 516	23 508 136

Heading	Description	Import	Export	Import	Export	Import	Export
		2005 Kg	2005 Kg	2006 Kg	2006 Kg	2007 Kg	2007 Kg
04.01	Milk and cream, unsweetened	2 105 485	8 666 131	4 943 877	12 559 045	13 858 507	7 277 746
04.02	Milk, concentrated	12 337 153	3 517 660	9 032 137	4 366 952	14 386 700	4 235 315
04.03	Buttermilk powder, yoghurt	1 689 886	2 969 313	1 561 696	4 980 518	1 611 115	3 904 306
04.04	Whey, whey powder etc	8 091 601	137 326	7 514 344	2 339 330	5 711 984	1 239 684
04.05	Butter, butter spreads and butter oil	2 722 816	846 786	3 141 909	770 915	3 331 164	880 002
04.06	Cheese and curd	3 824 459	1 078 744	4 684 645	1 526 513	5 413 513	979 477
	Total	30 771 400	17 215 960	30 878 608	26 543 273	44 312 983	18 516 530

Heading	Description	<u>Import</u>	<u>Export</u>	<u>Import</u>	<u>Export</u>	<u>Import</u>	<u>Export</u>
		2008	2008	2009	2009	2010	2010
		Kg	Kg	Kg	Kg	Kg	Kg
04.01	Milk and cream, unsweetened	12 799 205	19 293 810	10 902 048	21 292 977	11 118 947	17 451 437
04.02	Milk, concentrated	5 852 035	11 446 267	5 385 534	7 864 904	6 771 519	4 612 872
04.03	Buttermilk powder, yoghurt	669 432	5 743 800	1 380 614	5 709 480	1 378 705	4 527 147
04.04	Whey, whey powder etc	7 539 920	3 298 052	6 259 760	3 852 586	7 267 982	3 805 172
04.05	Butter, butter spreads and butter oil	2 812 100	1 564 877	3 200 689	1 309 556	2 192 835	1 470 776
04.06	Cheese and curd	4 336 703	1 434 165	5 244 744	1 741 226	6 331 199	2 083 150
	Total	34 009 395	42 780 971	32 373 389	41 770 729	35 061 187	33 950 554

Heading	Description	<u>Import</u>	<u>Export</u>	<u>Import</u>	<u>Export</u>	<u>Import</u>	<u>Export</u>
		2011	2011	2012	2012	2013	2013
		Kg	Kg	Kg	Kg	Kg	Kg
04.01	Milk and cream, unsweetened	8 324 364	20 801 621	15 240 656	28 077 665	4 267 449	29 074 468
04.02	Milk, concentrated	7 895 127	7 244 566	13 257 357	6 653 309	7 115 030	15 316 274
04.03	Buttermilk powder, yoghurt	2 131 189	9 215 883	2 146 004	12 913 857	1 590 917	19 517 880
04.04	Whey, whey powder etc	9 445 819	1 255 978	9 266 509	1 384 114	11 165 088	2 466 431
04.05	Butter, butter spreads and butter oil	3 153 315	992 242	6 107 761	1 033 349	3 132 054	1 174 557
04.06	Cheese and curd	6 764 628	2 306 790	13 084 240	2 438 666	8 403 219	2 932 285
	Total	37 714 442	41 817 080	59 102 527	52 500 960	35 673 757	70 481 895

POS	DESCRIPTION	<u>Import</u>	<u>Export</u>	<u>Import</u>	<u>Export</u>	<u>Import</u>	<u>Export</u>
		2014 Kg	2014 Kg	2015 Kg	2015 Kg	2016 Kg	2016 Kg
04.01	Milk and cream, unsweetened	6 992 447	32 751 503	26 863 360	29 051 149	19 219 616	22 804 187
04.02	Milk, concentrated	9 836 418	8 383 267	12 574 543	6 361 606	10 502 625	5 350 645
04.03	Buttermilk, yoghurt etc	2 086 328	22 774 653	2 653 250	16 098 030	2 540 075	12 903 458
04.04	Whey, whey powder etc	9 480 080	1 868 337	9 365 343	4 232 308	7 095 931	3 816 533
04.05	Butter, butter spreads and butter oil	2 071 983	1 860 197	5 131 861	1 491 368	5 356 852	1 350 229
04.06	Cheese and curd:	9 731 777	3 460 994	12 765 628	4 062 404	13 285 247	4 022 491
	Total	40 199 034	71 098 952	69 353 984	61 296 865	58 000 347	50 247 544

POS	DESCRIPTION	<u>Import</u>	<u>Export</u>	<u>Import</u>	<u>Export</u>		
		2017 Kg	2017 Kg	2018 Kg	2018 Kg		
04.01	Milk and cream, unsweetened	39 175 443	18 044 769	17 642 842	17 009 995		
04.02	Milk, concentrated	15 842 375	10 822 898	14 889 772	9 336 954		
04.03	Buttermilk, yoghurt etc	3 141 948	11 053 751	3 561 120	12 785 725		
04.04	Whey, whey powder etc	7 673 604	3 977 971	12 048 155	691 890		
04.05	Butter, butter spreads and butter oil	5 343 309	1 087 716	9 064 150	1 232 997		
04.06	Cheese and curd:	12 327 764	3 639 588	11 446 544	4 199 938		
	Total	83 504 443	48 626 693	68 652 583	45 257 499		

Graph 1

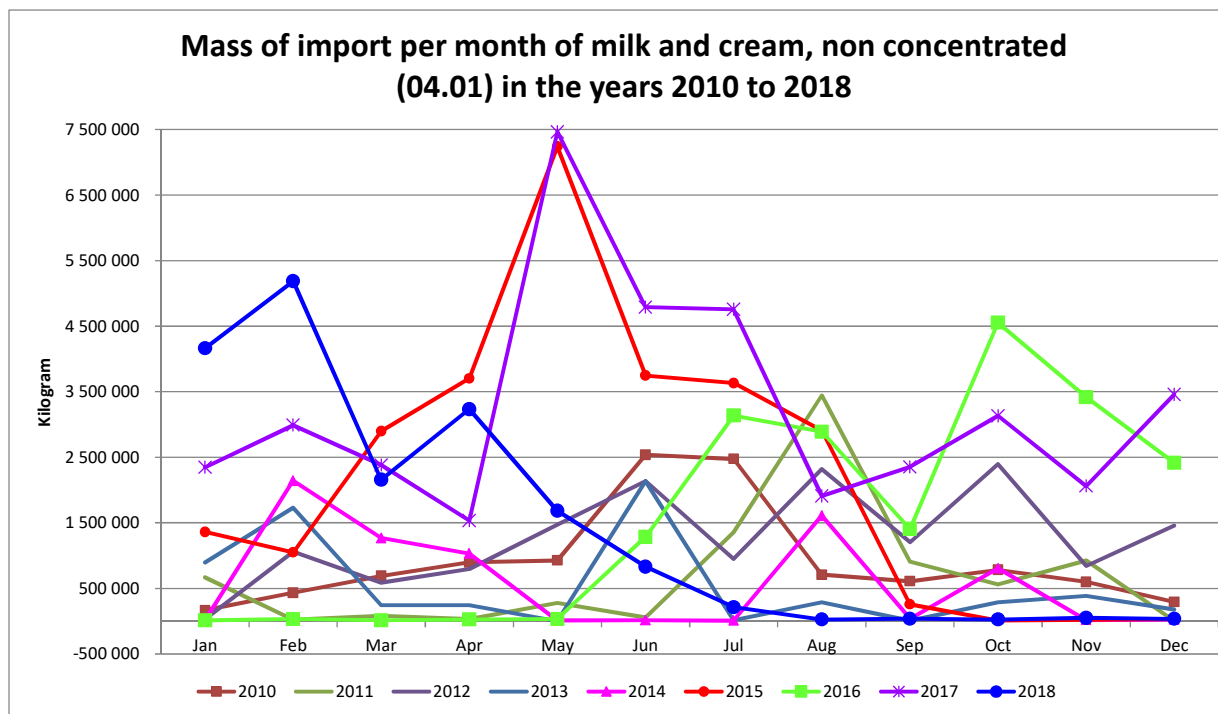


Table 1
Highest and lowest import month of milk and cream, non-concentrated (04.01) in the years 2010 to 2018

	Highest	Lowest
2010	June	January
2011	August	February
2012	October	January
2013	June	May
2014	February	July
2015	May	October
2016	June	January
2017	May	April
2018	February	August

1) Graphs prepared by the Office of SAMPRO on the basis of information obtained from SARS.

Graph 2

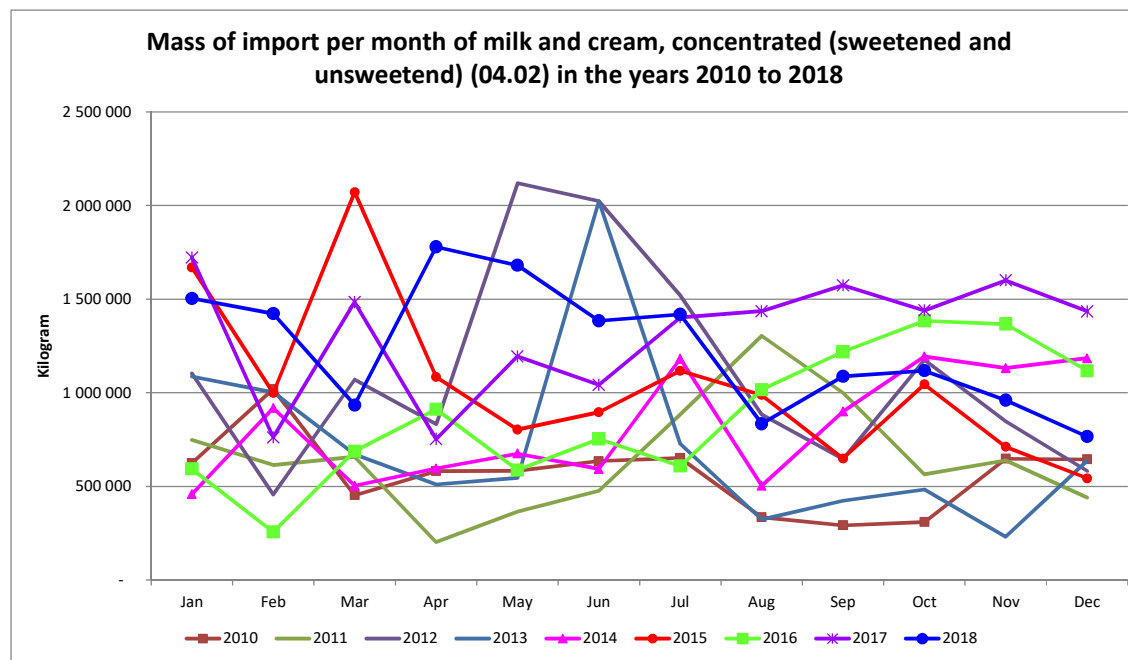


Table 2
Highest and lowest import month of milk and cream, concentrated (sweetened and unsweetened) (04.02) in the years 2010 to 2018

	Highest	Lowest
2010	February	September
2011	August	April
2012	May	February
2013	June	November
2014	October	January
2015	March	December
2016	October	February
2017	January	April
2018	April	December

Graph 3

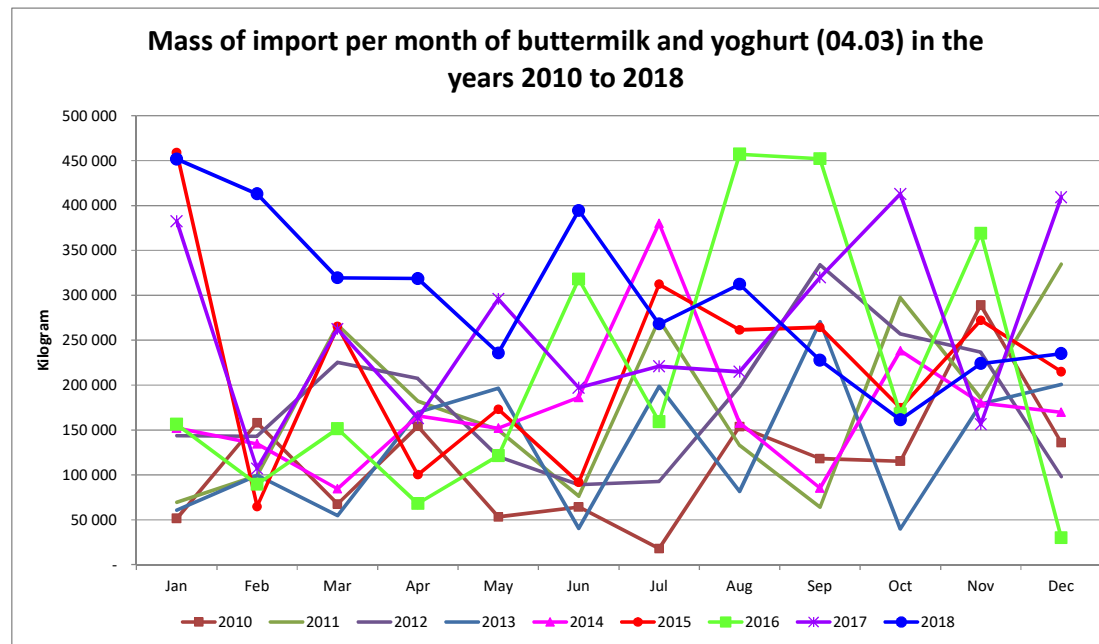


Table 3
Highest and lowest import month of buttermilk and yogurt (04.03) in the years 2010 to 2018

	Highest	Lowest
2010	November	July
2011	December	September
2012	September	July
2013	September	October
2014	July	March
2015	January	February
2016	August	December
2017	October	February
2018	January	October

Graph 4

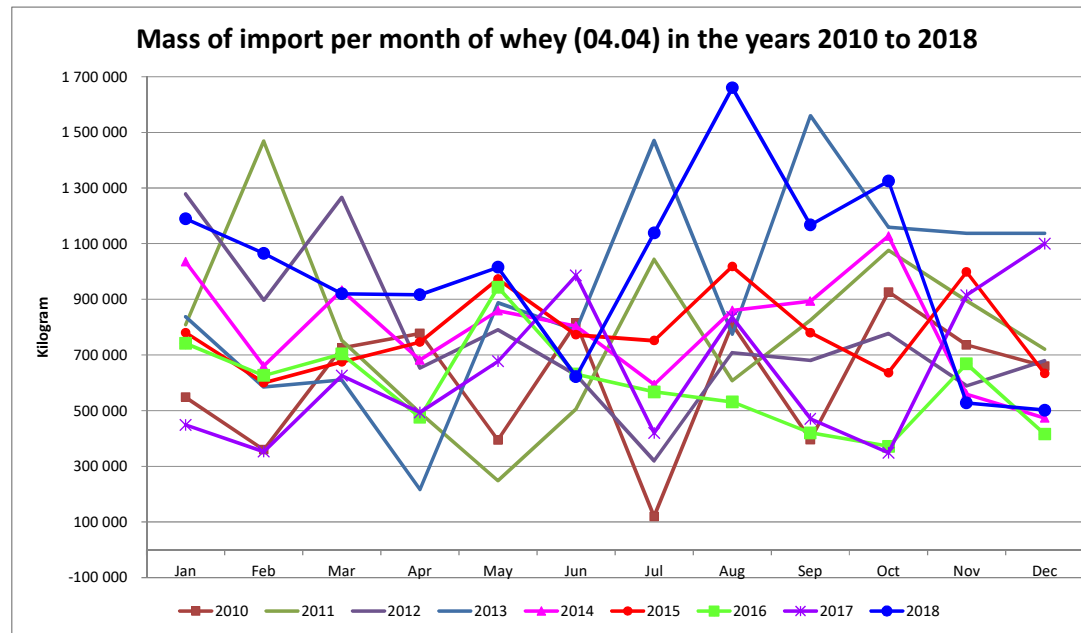


Table 4
Highest and lowest import month of whey (04.04) in the years 2010 to 2018

	Highest	Lowest
2010	October	July
2011	February	May
2012	January	July
2013	September	April
2014	October	December
2015	August	February
2016	May	April
2017	December	October
2018	August	December

Graph 5

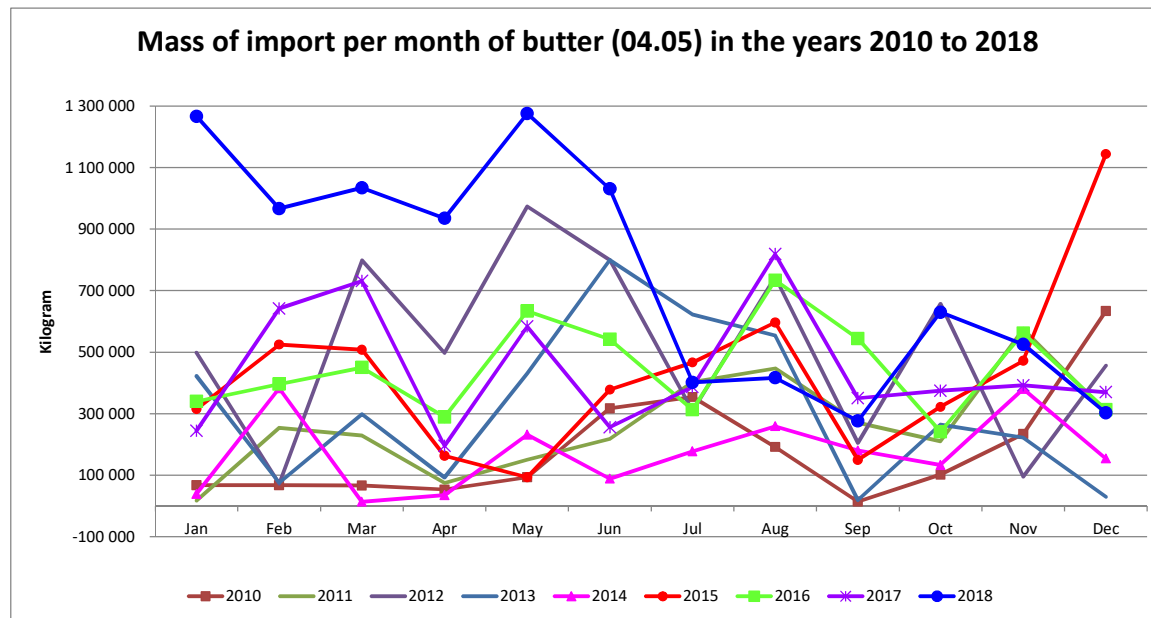


Table 5
Highest and lowest import month of butter (04.05) in the years 2010 to 2018

	Highest	Lowest
2010	December	September
2011	November	January
2012	May	February
2013	June	September
2014	February	March
2015	December	May
2016	August	October
2017	August	April
2018	May	September

Graph 6

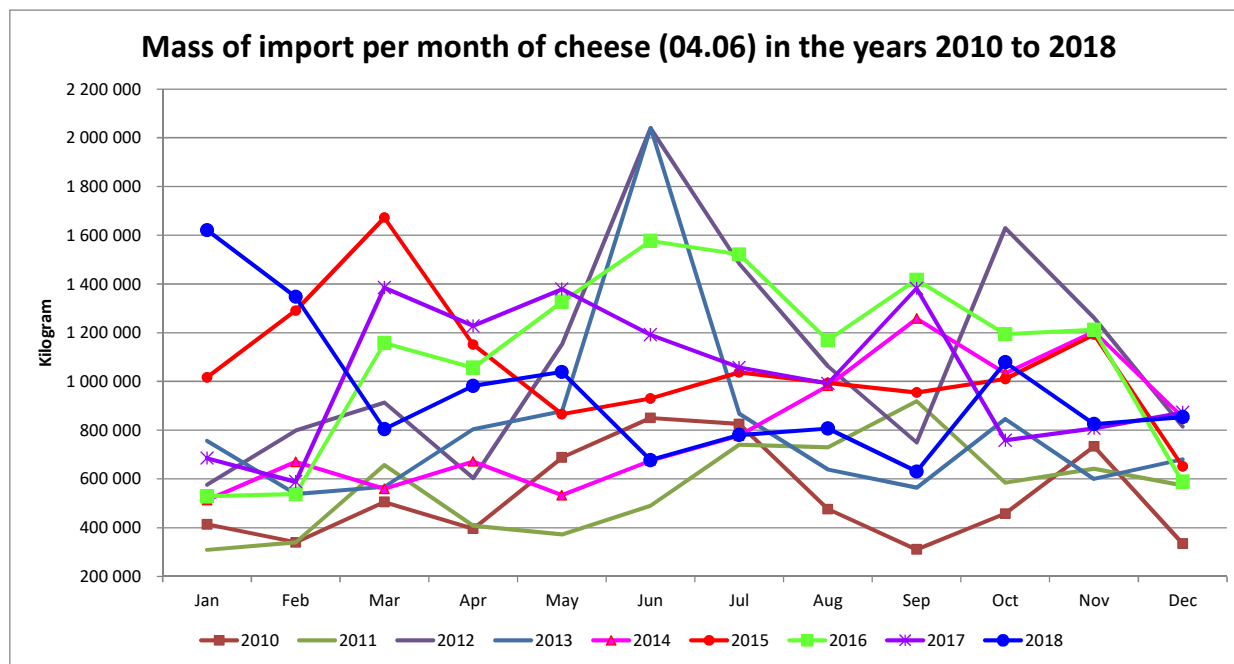


Table 6
Highest and lowest import month of cheese (04.06) in the years 2010 to 2018

	Highest	Lowest
2010	June	September
2011	September	January
2012	June	January
2013	June	February
2014	September	January
2015	March	December
2016	June	January
2017	March	February
2018	January	September

Graph 7

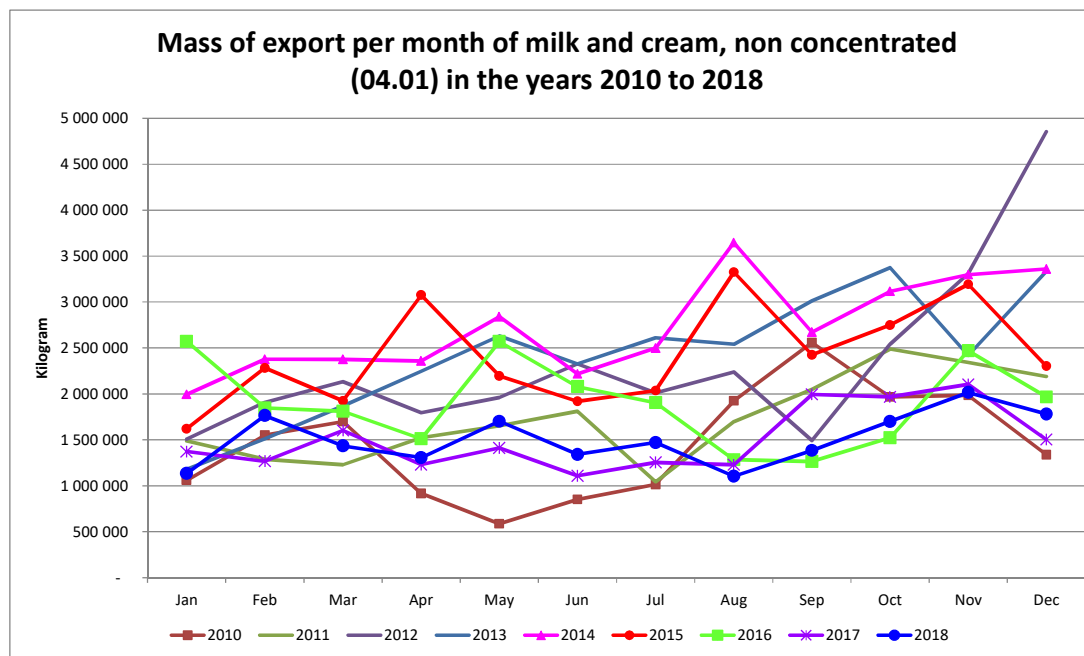


Table 7
Highest and lowest export month in terms of mass of milk and cream, non-concentrated (04.01) in the years 2010 to 2018

	Highest	Lowest
2010	September	May
2011	October	July
2012	December	September
2013	October	January
2014	August	January
2015	August	January
2016	January	September
2017	November	June
2018	November	August

Graph 8

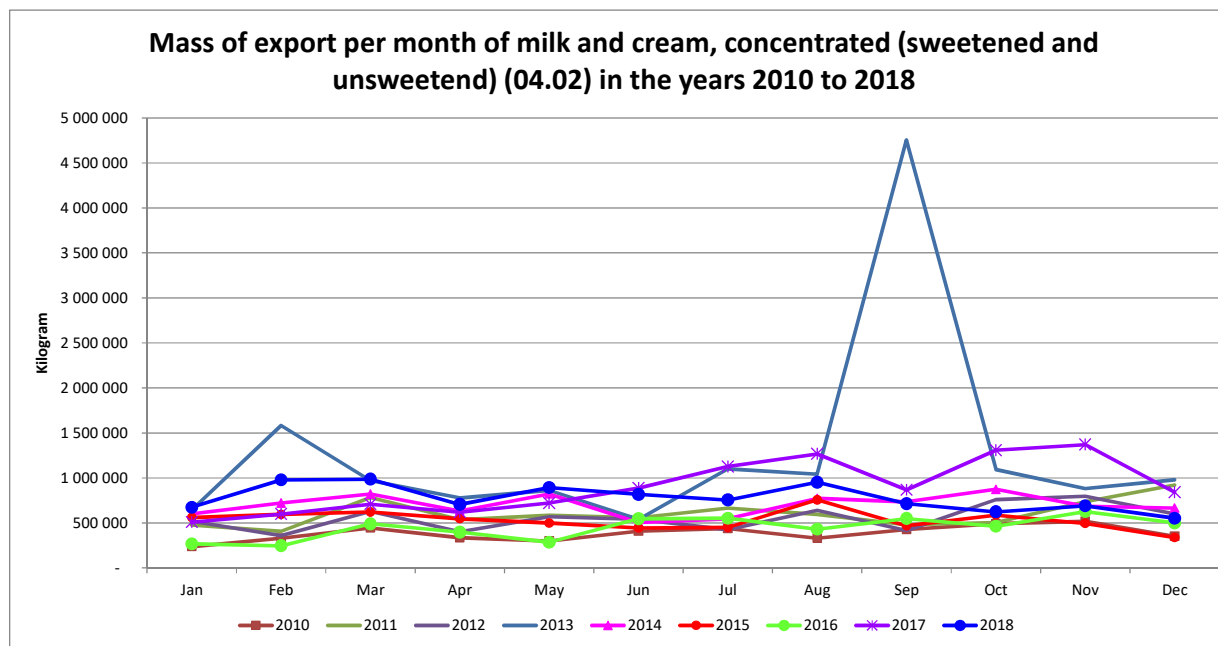


Table 8
Highest and lowest export month in terms of mass of milk and cream, concentrated (sweetened and unsweetened) (04.02) in the years 2010 to 2018

	Highest	Lowest
2010	November	January
2011	December	February
2012	November	February
2013	September	June
2014	September	June
2015	August	December
2016	November	February
2017	November	January
2018	March	December

Graph 9

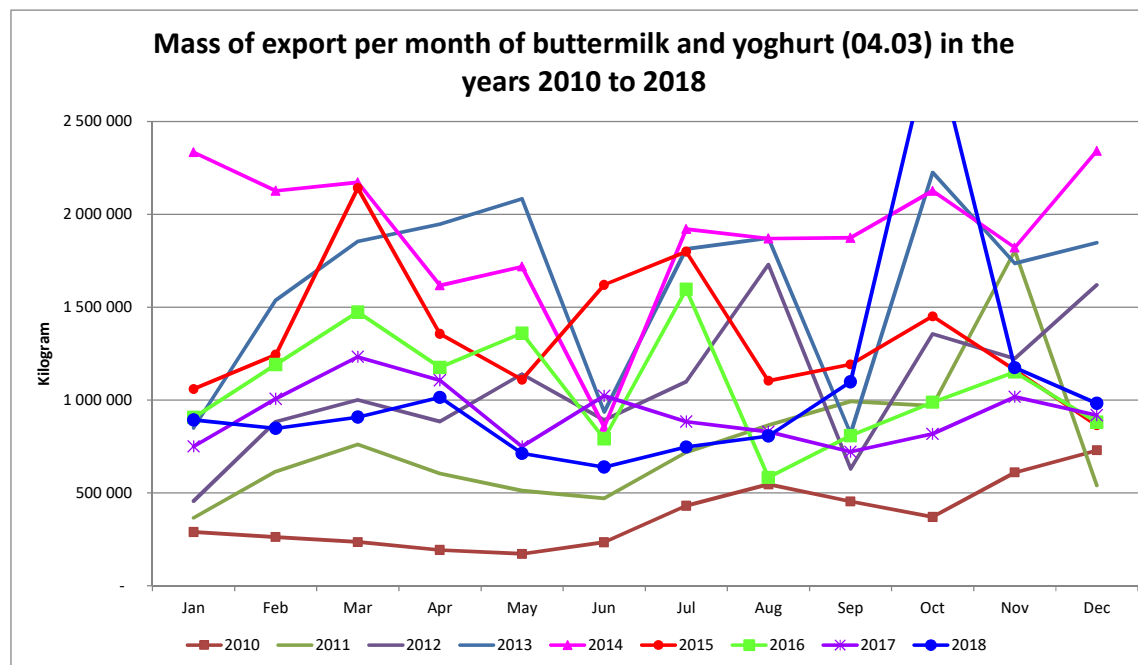


Table 9
Highest and lowest export month in terms of mass of buttermilk (04.03) in the years 2010 to 2018

	Highest	Lowest
2010	December	May
2011	November	January
2012	August	January
2013	October	September
2014	December	June
2015	March	December
2016	July	August
2017	March	September
2018	October	June

Graph 10

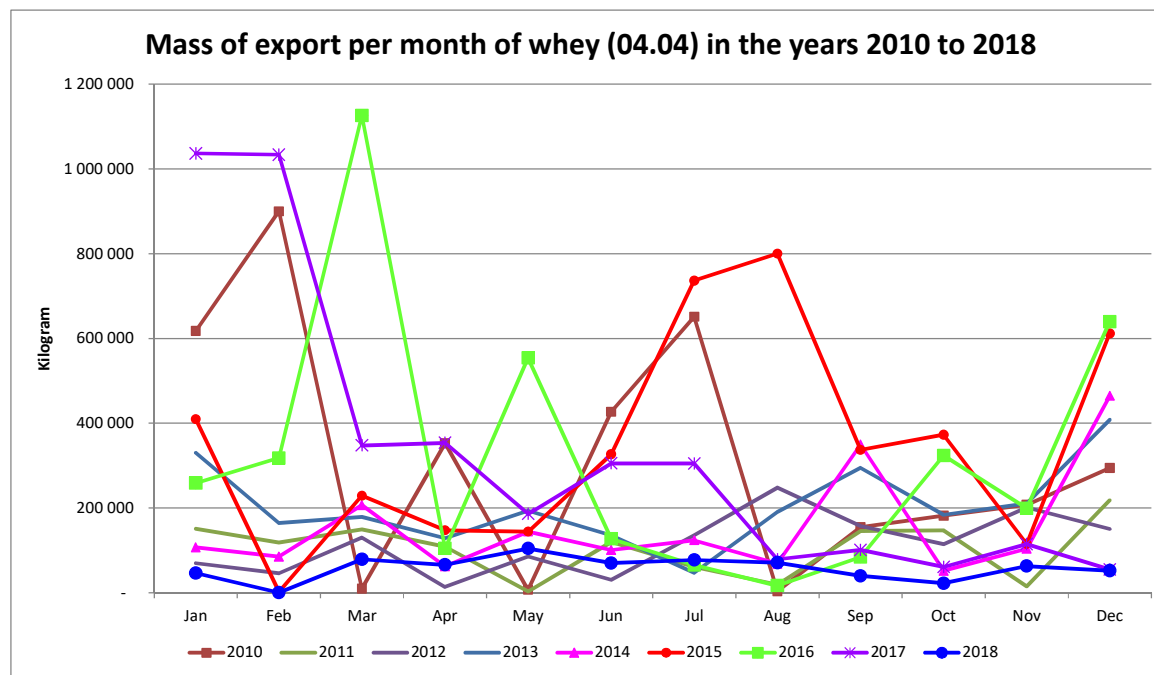


Table 10
Highest and lowest export month in terms of mass of whey (04.04) in the years 2010 to 2018

	Highest	Lowest
2010	February	August
2011	December	May
2012	August	April
2013	December	July
2014	December	October
2015	August	February
2016	March	August
2017	January	December
2018	May	February

Graph 11

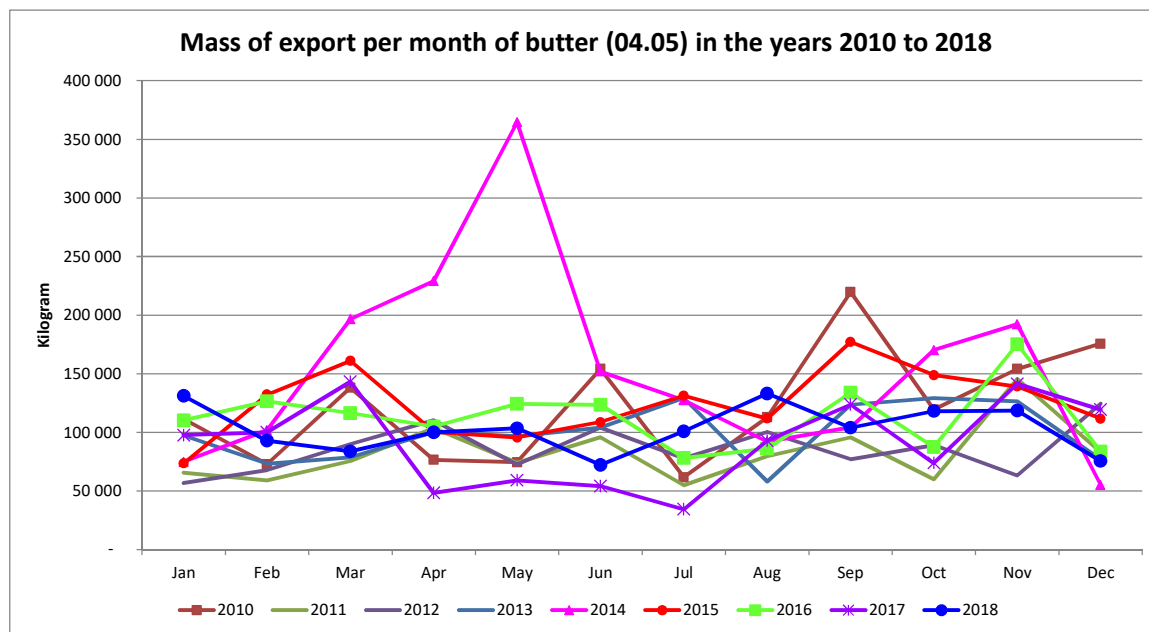


Table 11
Highest and lowest export month in terms of mass of butter (04.05) in the years 2010 to 2018

	Highest	Lowest
2010	September	July
2011	November	July
2012	December	January
2013	October	August
2014	May	December
2015	September	January
2016	November	July
2017	March	July
2018	August	June

Graph 12

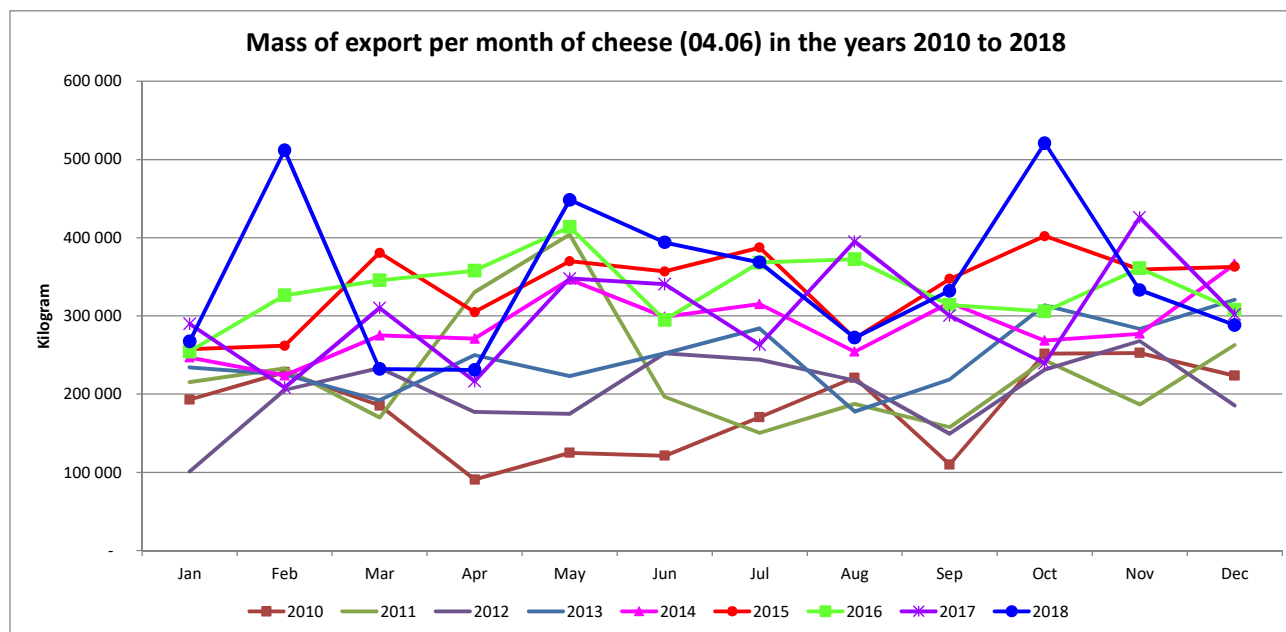


Table 12
Highest and lowest export month in terms of mass of cheese (04.06) in the years 2010 to 2018

	Highest	Lowest
2010	October	April
2011	May	July
2012	November	January
2013	December	August
2014	December	February
2015	October	January
2016	May	January
2017	November	February
2018	October	April