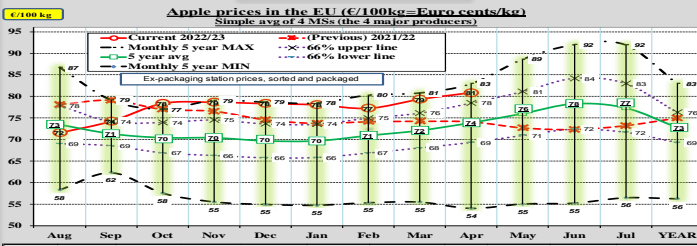
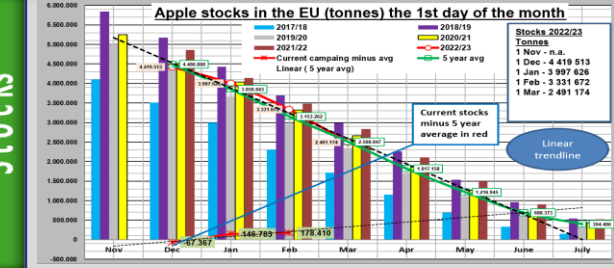
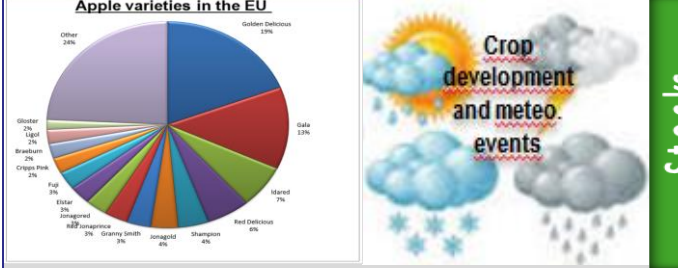
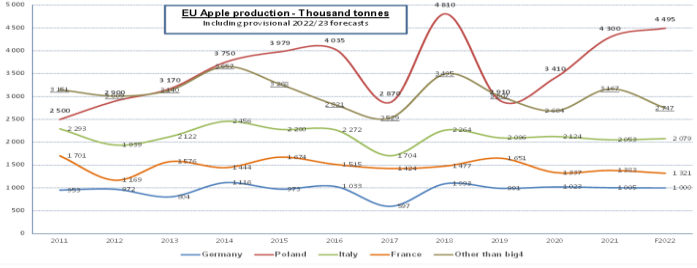
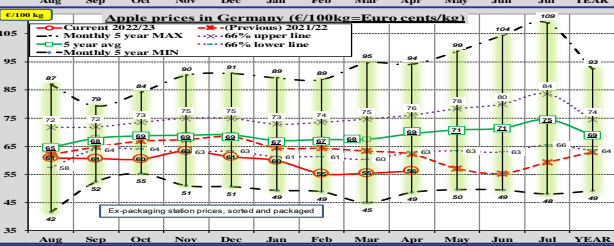
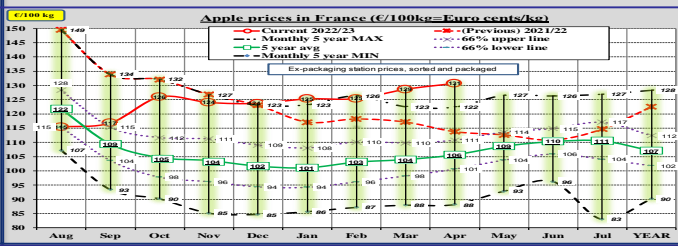
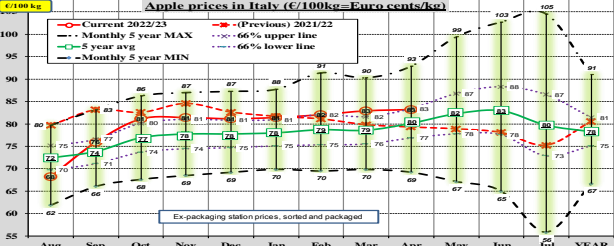
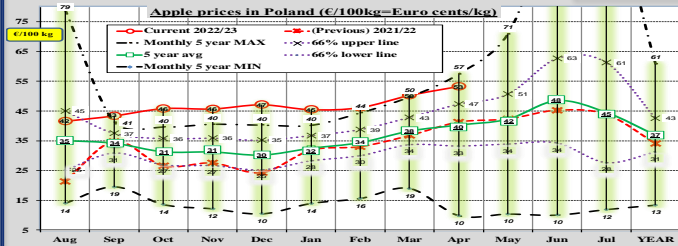


EU AVG PRICES



	2017/18	2018/19	2019/20	2020/21	(Previous) 2021/22	Current 2022/23	5 year avg	% current year to histo 5 year avg	% to preceding month in current year	% to preceding month in current year
Aug	66	75	68	78	78	72	73	97		
Sep	74	69	62	87	79	74	71	104	-3	4
Oct	65	64	77	77	78	70	70	111	-1	5
Nov	78	55	63	79	77	70	70	112	0	0
Dec	77	55	64	79	75	70	70	112	-1	0
Jan	77	55	65	78	74	78	70	112	0	0
Feb	79	55	66	80	74	77	71	109	2	-1
Mar	81	55	70	80	74	79	72	110	2	3
Apr	83	54	77	82	74	81	74	109	2	2
May	89	55	82	82	73	81	76	110	3	3
Jun	90	55	92	82	73	77	77	110	3	3
Jul	92	56	90	75	73	72	72	109	-1	
YEAR	80	58	71	80	75	73	73			

MS PRICES

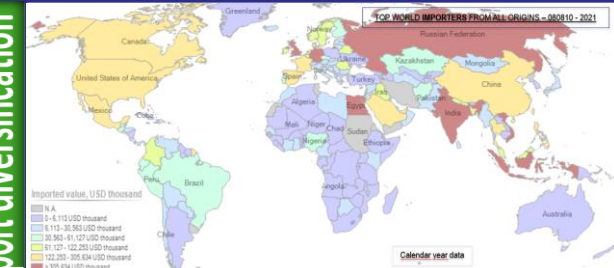
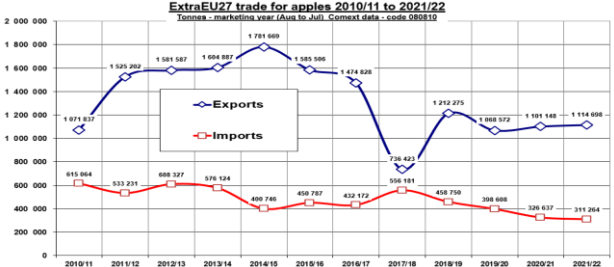


Marketing Year	Month	EU27 EXPORT VOLUME - 080810														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
2022/2023	Year	571 157	17 262	78 657	117 621	139 355	111 961	186 611								
2021/2022	Year	1 180 897	58 803	87 194	256 641	235 682	144 572	111 916	119 696	89 664	201 941	64 421	39 156			
2020/2021	Year	1 041 872	13 977	74 424	127 971	127 556	149 469	185 757	124 256	59 972	81 462	61 265	38 125			
2019/2020	Year	1 091 878	15 311	94 966	134 779	138 181	139 787	131 111	133 489	131 882	94 882	64 613	42 368	22 678		
2018/2019	Year	1 098 077	12 166	79 311	141 935	141 139	138 339	145 178	176 534	182 297	137 747	145 488	87 296	119 910		
2017/2018	Year	815 613	41 688	68 895	84 995	96 765	102 355	109 748	99 646	128 442	76 871	65 483	56 561	16 849		
2016/2017	Year	1 040 881	51 189	181 183	137 789	149 828	172 961	199 802	189 712	187 186	174 782	183 840	111 879	46 722		
2015/2016	Year	1 708 529	54 211	138 566	142 152	153 746	151 584	171 847	126 489	119 382	124 422	189 125	122 329	57 827		
2014/2015	Year	2 088 388	69 898	128 421	152 253	189 203	176 784	222 813	241 487	265 665	126 376	208 358	181 489	61 268		
2013/2014	Year	1 789 848	22 186	72 351	124 238	143 288	165 661	195 542	228 766	219 221	247 868	202 892	125 879	71 989		
2012/2013	Year	1 789 848	48 723	89 863	163 145	183 145	219 123	287 767	228 927	248 744	198 929	89 844	36 317			
2011/2012	Year	1 781 964	16 189	84 677	118 979	146 149	164 881	218 988	228 444	246 889	281 145	128 445	86 862	43 866		
2010/2011	Year	1 228 478	34 495	89 226	128 854	124 217	156 791	188 995	242 589	242 932	122 892	61 874	38 882			

Marketing Year	Month	EU27 IMPORT VOLUME - 080810														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
2022/2023	Year	59 889	28 389	17 518	28 854	28 028	28 237	4 854								
2021/2022	Year	122 881	29 737	24 261	27 292	29 263	12 897	5 765	6 696	18 421	14 671	29 766	61 489	54 221		
2020/2021	Year	292 946	18 482	14 419	17 782	27 688	9 228	3 862	4 828	6 968	39 689	39 688	78 281	72 848		
2019/2020	Year	302 721	21 215	12 215	42 128	36 866	9 688	9 228	7 944	8 916	22 852	47 548	88 242	78 625		
2018/2019	Year	308 808	24 765	18 688	36 862	21 183	14 618	5 128	6 203	11 782	27 843	58 838	60 836	65 928		
2017/2018	Year	422 445	22 474	28 388	28 538	19 687	9 425	5 998	4 696	6 845	38 767	67 865	67 861	51 761		
2016/2017	Year	387 784	16 824	11 642	12 712	12 989	6 679	4 424	27 759	6 424	27 759	44 382	68 796	75 282		
2015/2016	Year	328 889	15 386	14 778	12 759	21 783	12 886	8 540	18 388	18 359	34 479	44 882	65 542	65 342		
2014/2015	Year	177 854	9 591	4 864	4 864	48 688	18 471	3 888	6 687	18 833	11 111	43 549	66 933	61 468		
2013/2014	Year	425 885	28 614	18 688	29 567	28 878	18 884	7 881	11 628	19 387	62 217	74 217	77 879	68 688		
2012/2013	Year	624 458	15 482	17 787	7 777	6 618	5 811	4 246	4 322	17 886	68 746	82 775	94 842	188 984		
2011/2012	Year	576 883	8 529	18 887	21 842	28 858	4 748	3 117	4 616	19 746	53 666	72 816	78 883	63 562		
2010/2011	Year	458 888	28 613	7 881	28 774	28 283	4 728	2 774	3 478	24 775	78 556	188 388	181 359	65 348		

Marketing Year	Month	EU27 AVERAGE EXPORT PRICE - 808010														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
2022/2023	Year	86	82	81	78	88	91	88								
2021/2022	Year	77	76	77	72	74	76	87	83	81	77	79	72	69	72	
2020/2021	Year	76	87	78	73	79	88	86	78	77	79	79	74	64	68	
2019/2020	Year	72	68	73	71	79	72	71	73	74	76	77	80	98		
2018/2019	Year	68	70	74	65	66	67	64	68	61	56	45	41	46		
2017/2018	Year	70	83	87	88	82	78	79	78	74	81	74	62	65		
2016/2017	Year	68	72	78	68	68	63	58	63	64	68	58	68	68		
2015/2016	Year	59	61	62	69	65	69	63	56	53	46	47	46	53		
2014/2015	Year	52	70	67	62	56	55	48	45	47	51	45	49	58		
2013/2014	Year	52	64	77	67	64	63	58	56	56	51	58	49	54		
2012/2013	Year	68	79	77	68	65	62	56	56	54	53	55	59	78		
2011/2012	Year	57	70	65	62	62	61	59	55	51	54	53	51	62		
2010/2011	Year	64	70	72	67	68	67	65	62	58	69	68	68	74		

Marketing Year	Month	EU27 AVERAGE IMPORT PRICE - 808010														
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
2022/2023	Year	72	137	185	28	19	29	55								
2021/2022	Year	185	124	125	48	18	22	32	32	32	38	78	122	148	158	
2020/2021	Year	98	127	58	31	39	35	58	48	63	64	124	132	137		
2019/2020	Year	87	121	55	21	37	38	36	35	59	92	116	122	124		
2018/2019	Year	87	122	44	22	38	28	61	39	48	64	102	123	124		
2017/2018	Year	108	129	65	39	33	39	49	54	82	107	121	132	133		
2016/2017	Year	146	123	84	68	63	68	63	35	59	49	84	108	128	129	
2015/2016	Year	122	121	81	32	25	35	29	26	35	68	108	117	122	129	
2014/2015	Year	107	125	91	43	37	44	46	34	78	104	122	128	128		
2013/2014	Year	89	122	62	25	23	45	46	32	68	96	107	119	128		
2012/2013	Year	112	185	174	46	44	75	71	78	94	103	118	123	124		
2011/2012	Year	85	94	34	29	23	68	55	47	77	86	99	107	114		
2010/2011	Year	83	97	28	21	37	59	74	84	87	89	95	105	106		



Prices

Production

Trade (I)

Trade (II)

Stocks

Export diversification



## INDEX

European  
Commission

### **0. Summary overview, market update**

#### **1. Prices**

**\* EU prices**

**\* MS prices for major producers**

#### **2. Production (by variety + extreme weather events + stocks)**

#### **3. Trade**

**\* Evolution of the trade balance**

**\* Import monitoring**

**\* Export development**

#### **4. Further detail on trade developments**

#### **5. Export diversification**



## **SUMMARY OVERVIEW, MARKET UPDATE & RECENT DEVELOPMENTS – Marketing year 2022/23**

1. The ongoing crop 2022/23 for was initially estimated by WAPA at a volume very similar to the preceding crop; since the month of August 2022, however, several Member States registered additional drought and heatwave events that will result on smaller fruit sizes and, therefore, lower volumes. As soon as possible will now at which level below 12 million tonnes the EU crop volume will be.

- **Provisional table on EU volumes**

[To table](#)

2. In the case of Poland, the MS with largest volume, the need for adapting production to what is marketable, this is structural adjustments, has been confirmed once more. There are several provisional sources of information about the size of this crop; they point to a possible final estimate could be smaller than anticipated due mainly to labour shortages among other factors.

- **More detail on the size of the Polish crop**

[To table](#)

3. The volume of stocks on 1 December 2022 for the Member States that are the 10 most important producers was 4 419 513 tonnes, 9% below the level of the preceding crop.

4. The sector faces temporarily several challenges: 1) Rising input costs (especially energy and other farm inputs); 2) High costs on transportation; 3) Labour shortage (especially for harvesting).

5. These challenges are also accompanied by opportunities: 1) Moderate size of the part of the crop going to fresh consumption; 2) Measures being taken in order to allow for more reasonable energy prices for storing fresh apples and for facilitating apple processing; 3) Great export opportunities in the processing size in a context of a small crop in China (more than 50% of the world's production and consumption, a crop 9 million tonnes below normal levels) and very favorable exchange rates on both Dollar and Euro terms for exporting on the Polish currency;

6. In the apple for processing segment, apple concentrate sells well on world markets and is expected to remain at very good prices during the ongoing marketing year.

7. Given the relatively small volume of the product that can go to fresh consumption prices are significantly higher than during the preceding crop in most Member States.



# 1. PRICES

## 1.1. EU Prices

## 1.2. MS prices for major producers

\* Poland (1st EU28 volume producer)

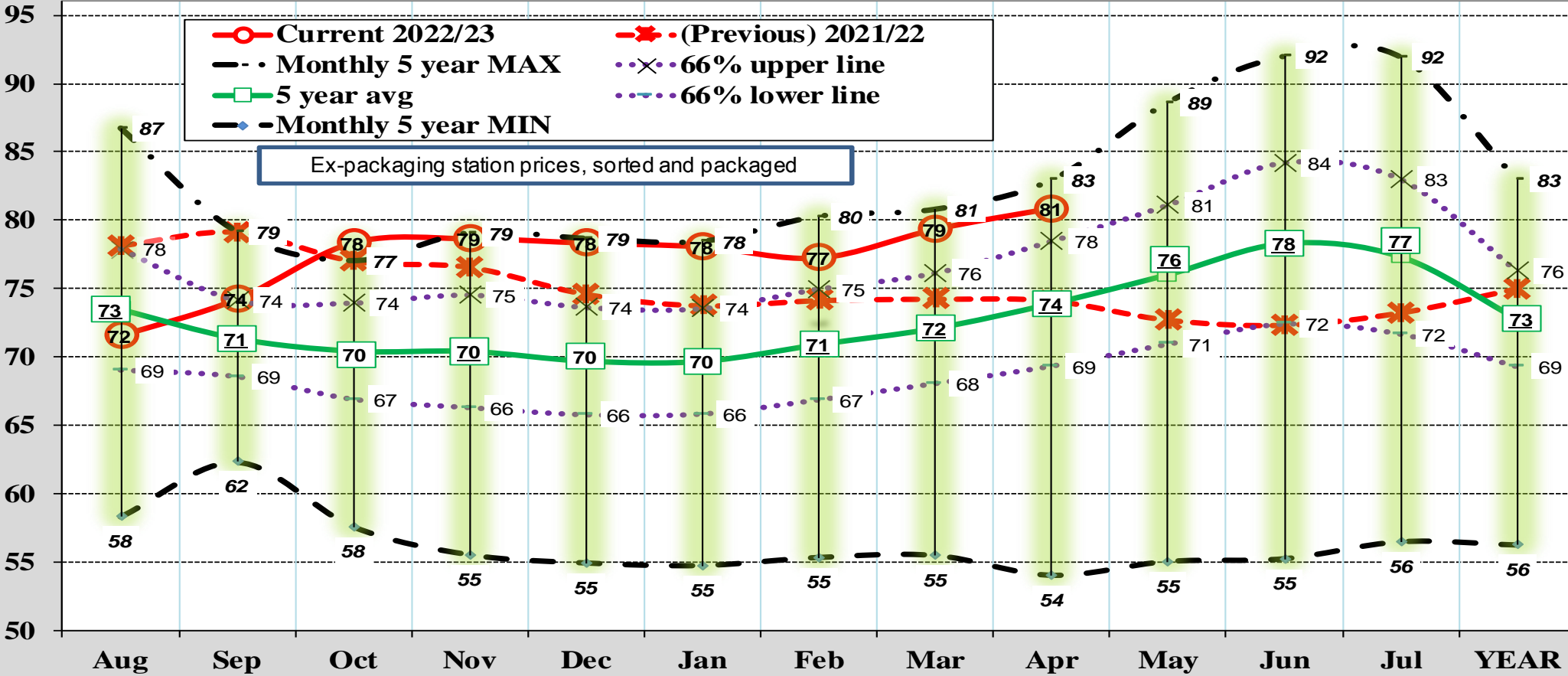
\* Italy (2nd)

\* France (3rd)

\* Germany (4th)

€/100 kg

### Apple prices in the EU (€/100kg=Euro cents/kg) Simple avg of 4 MSs (the 4 major producers)





## EU APPLE PRICES 2022 &amp; 2023 - Monthly averages - Euro cents per kg

Ex-packaging station

2022-&gt;

2023-&gt;

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr (*)
Allemagne	64,45	64,27	63,31	62,22	57,10	55,31	59,28	60,89	60,68	60,49	63,37	61,30	59,97	55,35	55,48	56,27
Austria	117,97	104,89	120,61	108,61	96,27	100,77	99,57	100,24	97,19	114,74	96,95	108,90	94,35	103,38	87,90	87,56
Belgique	47,07	42,75	39,23	42,20	34,42	32,97	32,86	52,04	49,59	44,57	44,49	43,08	49,13	50,67	53,83	39,81
Croatie	68,81	70,01	69,59	70,84	65,94	71,73	74,15	82,60	84,16	82,75	79,37	79,66	85,80	87,26	85,33	84,33
Espagne	74,66	75,90	73,66	75,47	80,72	81,52	80,33	84,32	86,26	84,56	86,33	88,70	89,48	90,75	89,42	90,97
France	117,06	118,17	117,09	113,71	112,59	110,78	114,60	115,41	116,81	125,89	123,97	123,65	125,23	125,31	128,61	130,66
Grèce	94,50	94,50	95,70	97,88	97,88	97,88	106,73	108,00	87,54	94,55	86,36	86,54	90,89	94,72	95,00	96,19
Hongrie	66,21	66,24	66,27	70,22	70,54	70,88		54,13	55,85	55,97	57,54	58,02	60,24	65,39	68,16	72,87
Italie	81,71	81,12	79,83	79,31	78,90	78,09	75,27	68,27	75,96	81,13	81,45	81,17	81,45	82,09	82,95	83,22
Pays-Bas	56,86	57,66	59,78	55,70	57,88	56,77	59,36	56,77	50,48	49,52	52,56	49,51	51,97	69,00	82,94	91,11
Pologne	30,92	33,03	39,96	41,26	42,30	45,22	43,84	41,60	43,41	45,85	45,73	47,13	45,49	46,18	50,26	53,26
Portugal	71,99	73,91	71,53	70,16	71,23	73,10	87,57	71,50	78,68	83,01	88,59	88,30	92,48	93,60	97,09	98,50
Rép. Tchèque	60,67	60,35	61,38	63,81	64,28	64,64	69,35	70,18	72,85	59,42	61,92	62,34	63,38	64,00	64,29	66,26
Romania	49,41	51,14	50,97	52,18	49,52				60,94	60,32	55,44	57,67	58,33	58,46	62,46	63,83

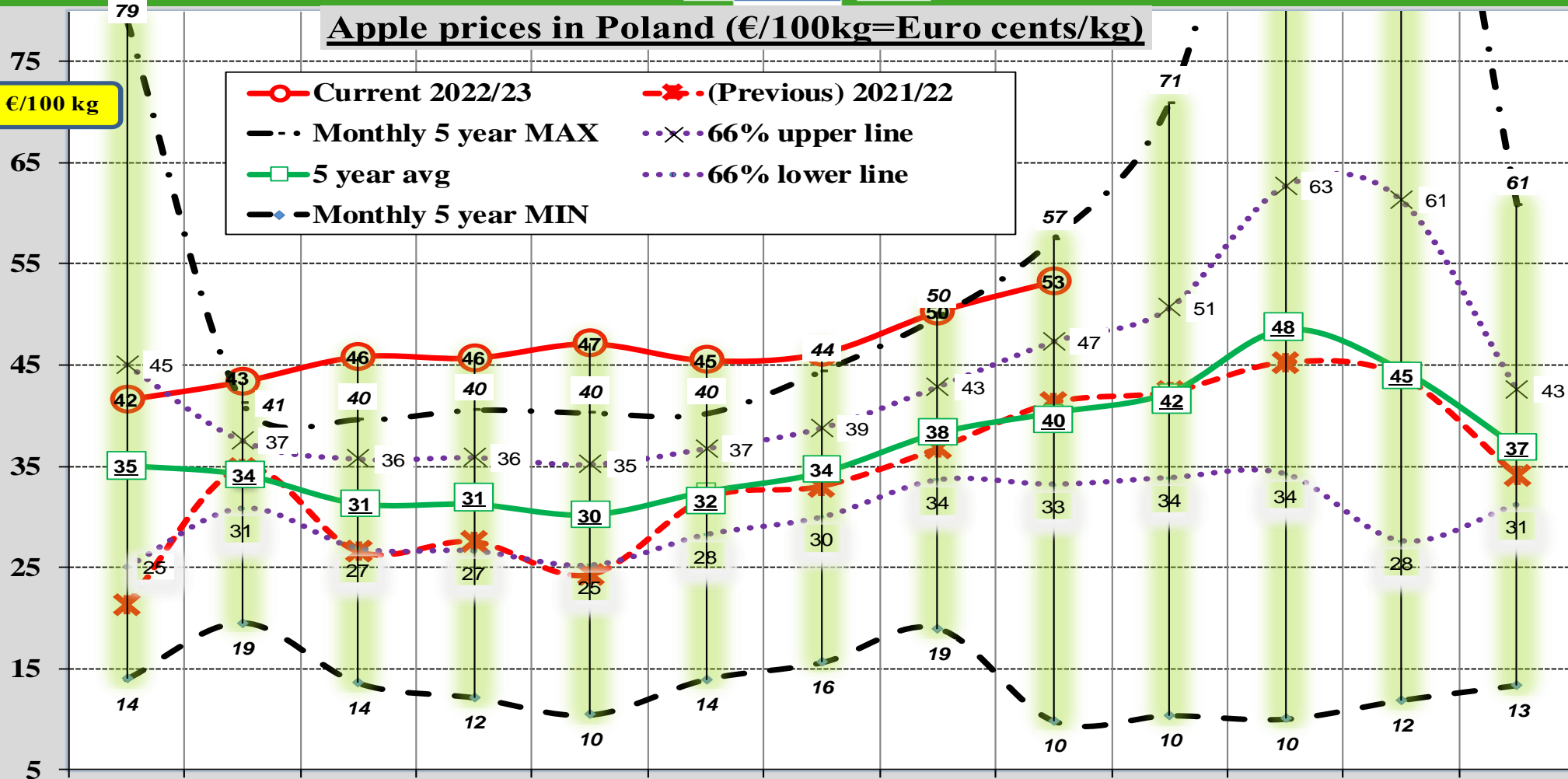
(\*) Partial data from 1 to 18 April 2023.



### Apple prices in Poland (€/100kg=Euro cents/kg)

€/100 kg

- Current 2022/23
- x- (Previous) 2021/22
- .- Monthly 5 year MAX
- 5 year avg
- x 66% upper line
- ... 66% lower line
- ♦- Monthly 5 year MIN

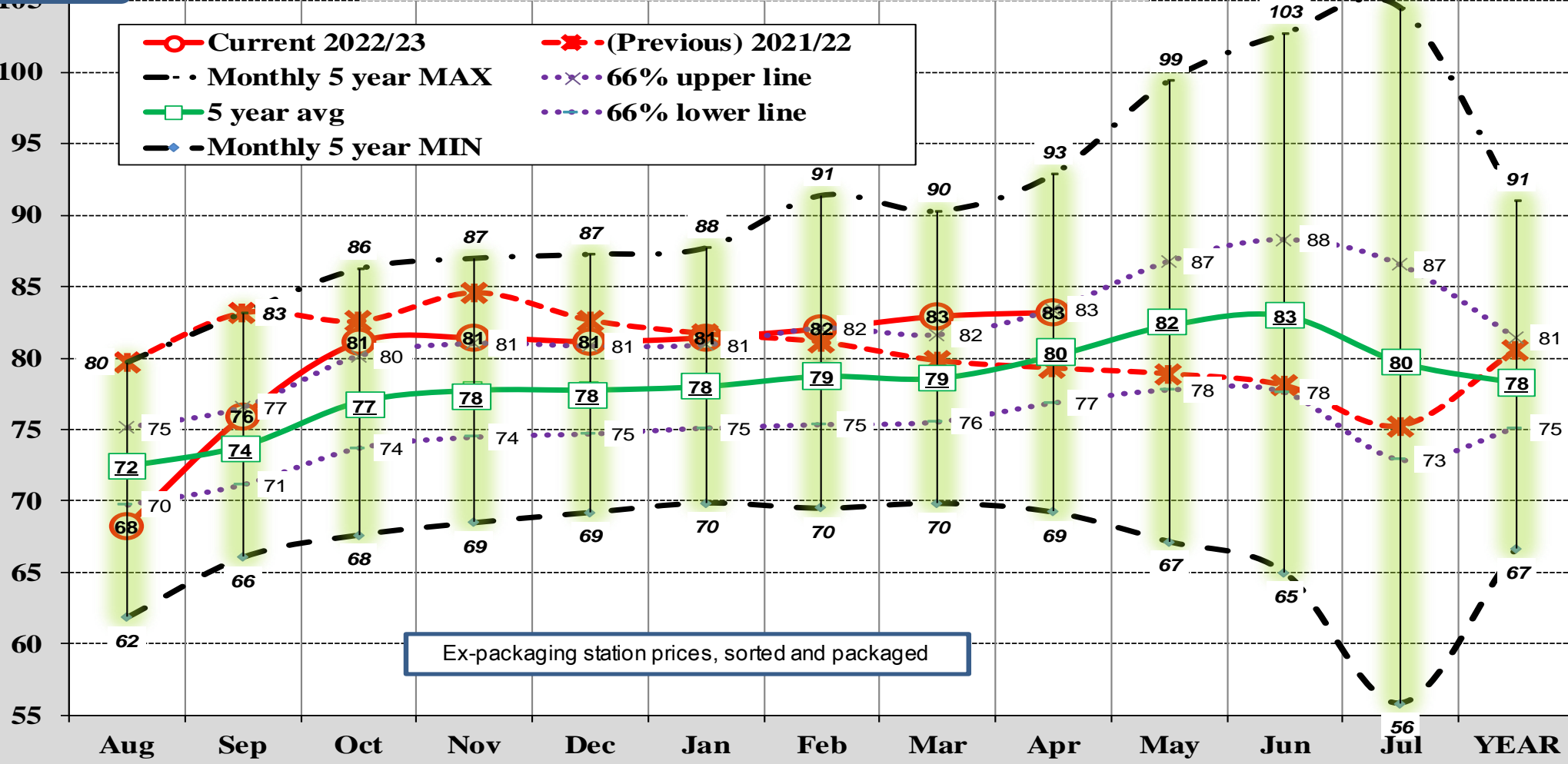




€/100 kg

**Apple prices in Italy (€/100kg=Euro cents/kg)**

○ **Current 2022/23**      ✖ **(Previous) 2021/22**  
- - **Monthly 5 year MAX**      ✖ **66% upper line**  
□ **5 year avg**      ✖ **66% lower line**  
- ◆ - **Monthly 5 year MIN**



Ex-packaging station prices, sorted and packaged



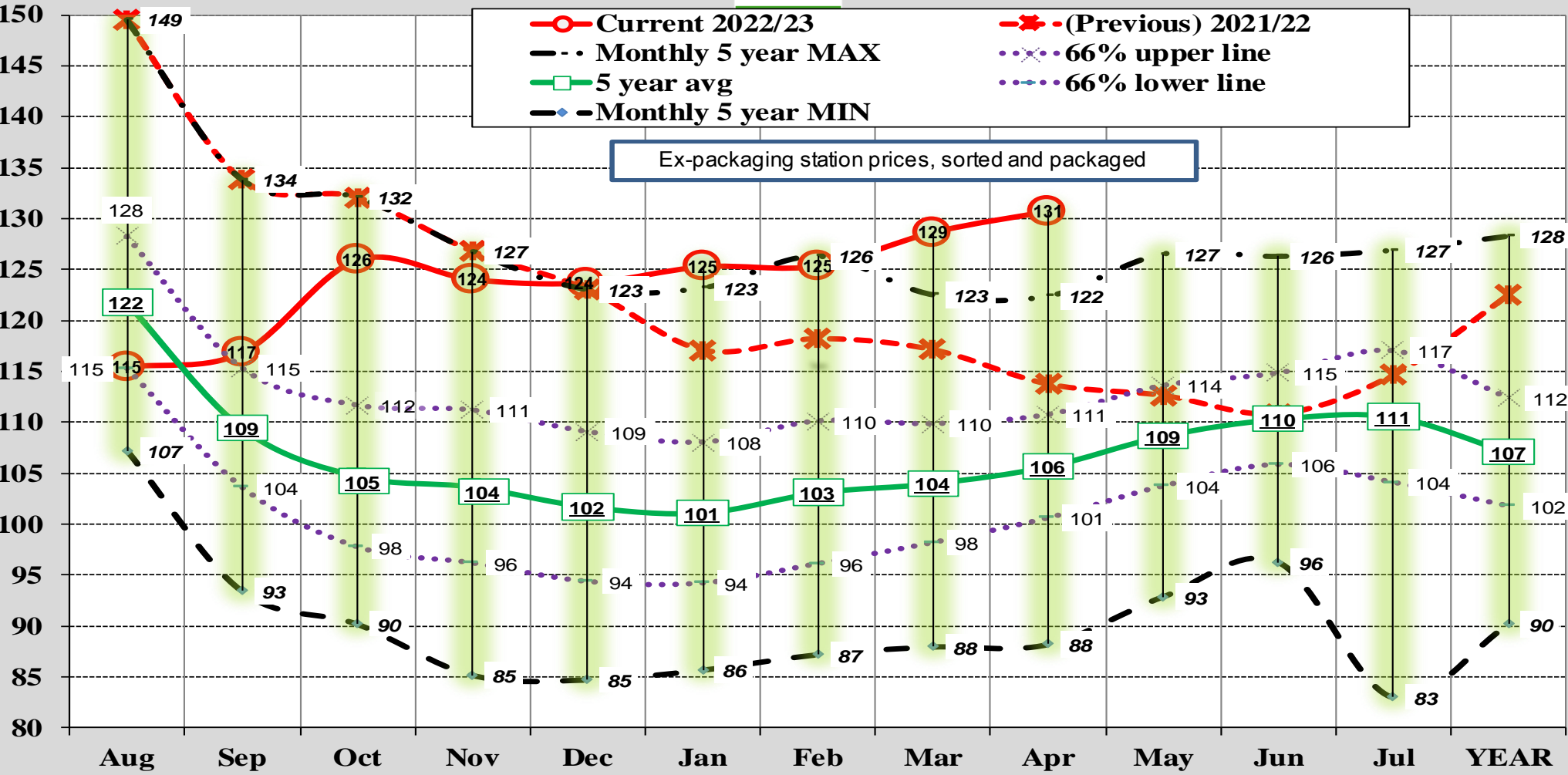


€/100 kg

### Apple prices in France (€/100kg=Euro cents/kg)

- Current 2022/23
- Monthly 5 year MAX
- 5 year avg
- ◆ Monthly 5 year MIN
- ✕ (Previous) 2021/22
- ⋯ 66% upper line
- ⋯ 66% lower line

Ex-packaging station prices, sorted and packaged

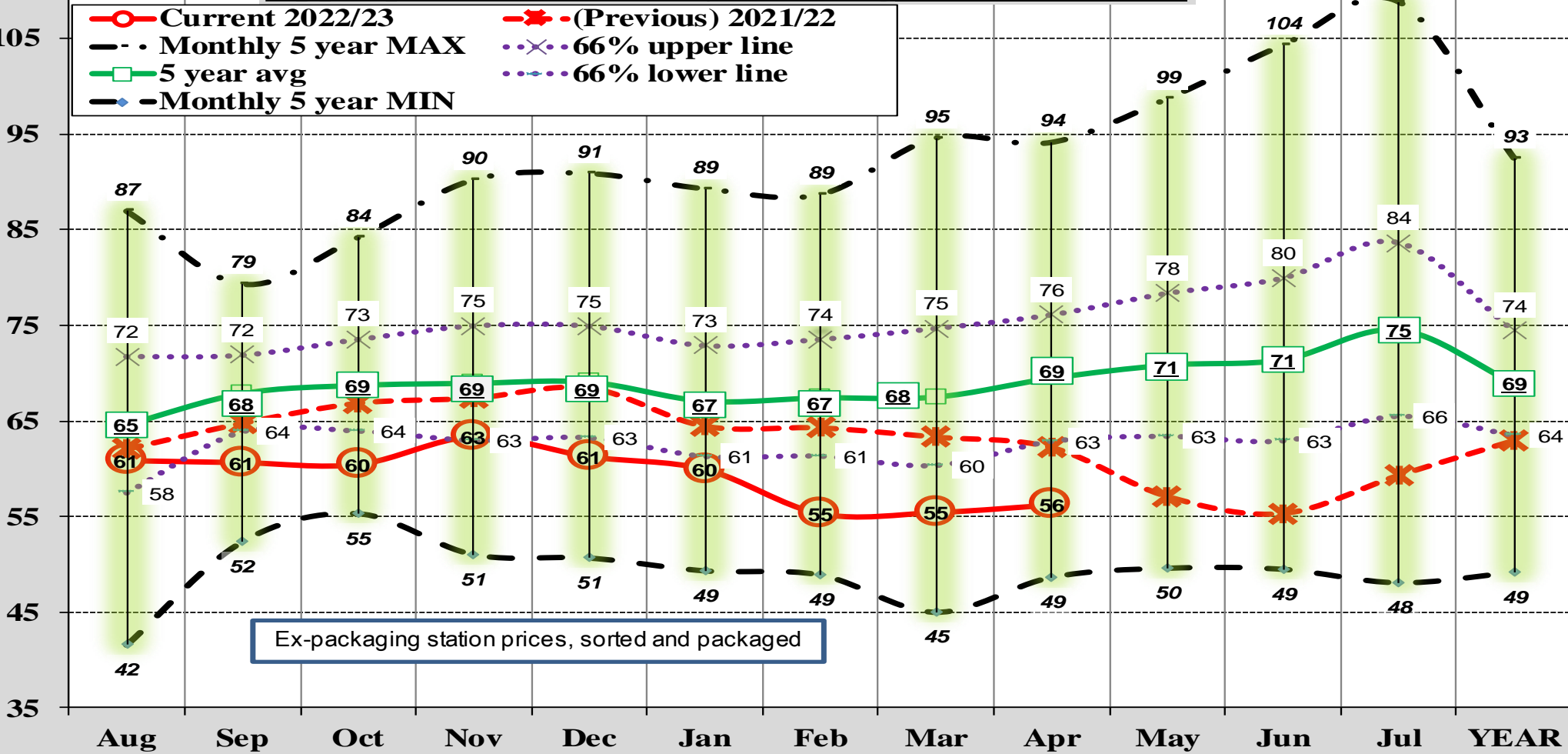


€/100 kg

### Apple prices in Germany (€/100kg=Euro cents/kg)

- Current 2022/23
- x- (Previous) 2021/22
- .- Monthly 5 year MAX
- 5 year avg
- x 66% upper line
- .- Monthly 5 year MIN
- 66% lower line

Ex-packaging station prices, sorted and packaged



Includes some retroactive notifications received lately



Market summary

EU - Big 4										
	2017/18	2018/19	2019/20	2020/21	(Previous) 2021/22	Current 2022/23	5 year avg	% current year to histo. 5 year avg	% to preceding month in 5 year avg	% to preceding month in current year
Aug	66	79	58	87	78	72	73	97		
Sep	74	65	62	76	79	74	71	104	-3	4
Oct	76	58	64	77	77	78	70	111	-1	6
Nov	78	55	63	79	77	79	70	112	0	0
Dec	77	55	64	79	75	78	70	112	-1	0
Jan	77	55	65	78	74	78	70	112	0	0
Feb	79	55	66	80	74	77	71	109	2	-1
Mar	81	55	70	80	74	79	72	110	2	3
Apr	83	54	77	82	74	81	74	109	2	2
May	89	55	82	82	73		76		3	
Jun	90	55	92	82	72		78		3	
Jul	92	56	90	75	73		77		-1	
YEAR	80	58	71	80	75		73			

THE METHODOLOGY FOR MONTHLY ANALYSING PRICES  
IS EXPLAINED IN THE NEXT SLIDE WITH AN EXAMPLE



## PRICE ANALYSIS (SHORT TERM), AN EXPLANATION BY EXAMPLE

### What is found in the columns of monthly price figures?

1. Column A: average monthly prices for August 2020 by Member State and in the EU;
2. Column B: average monthly prices for September 2020 by Member State and in the EU;
3. Column C: index of prices for August 2020 compared to the average prices of the 5 preceding years (base = 100);
4. Column D: index of prices for September 2020 compared to the average prices of the 5 preceding years (base = 100);
5. Column E: percentage change of prices in September compared to August for the average price of the 5 preceding years (<>seasonal factors);
6. Column F: percentage change of prices in September 2020 compared to August 2020.

### Example for German prices (September 2020)

		Germany										
		2014/15	2015/16	2016/17	2017/18	2018/19	(Previous) 2019/20	Current 2020/21	5 year avg	% current year to histo. 5 year avg	% to preceding month in 5 year avg	% to preceding month in current year
<b>Aug</b>		32.67	41.42	31.89	54.33	86.98	41.58	78.16	51	153		
<b>Sep</b>		29.56	43.74	39.37	73.28	69.76	52.32	79.36	56	142	9	2

The monthly average price in Germany was 78 Euro cents per kg in August 2020 (column A). The equivalent price for September 2020 was 79 Euro cents per kg (column B). Therefore, the percentage change of prices (September compared to August) was a 2% increase (column F).

We have 3 additional columns in order to check how the situation and recent price changes compare to the reference period (5 preceding years, 2015 to 2019). Column C indicates a figure of 153 for August; that means that the price of August 2020 was 1,53 times the price for the reference period in Germany. Column D indicates that the price for September 2020 was 1,42 times the price of the reference period. In column E we have a proxy indicator for price seasonality factors: for the reference period average German prices were 9% higher in September than in August (this is a sort of seasonal pattern that we take into account for column F). When results in column F are better than in E, the shape appears in green (in red in the opposite case).



## 2. PRODUCTION

**2.1. EU production for MSs that are major producers**

**2.2. EU production by variety (%)**

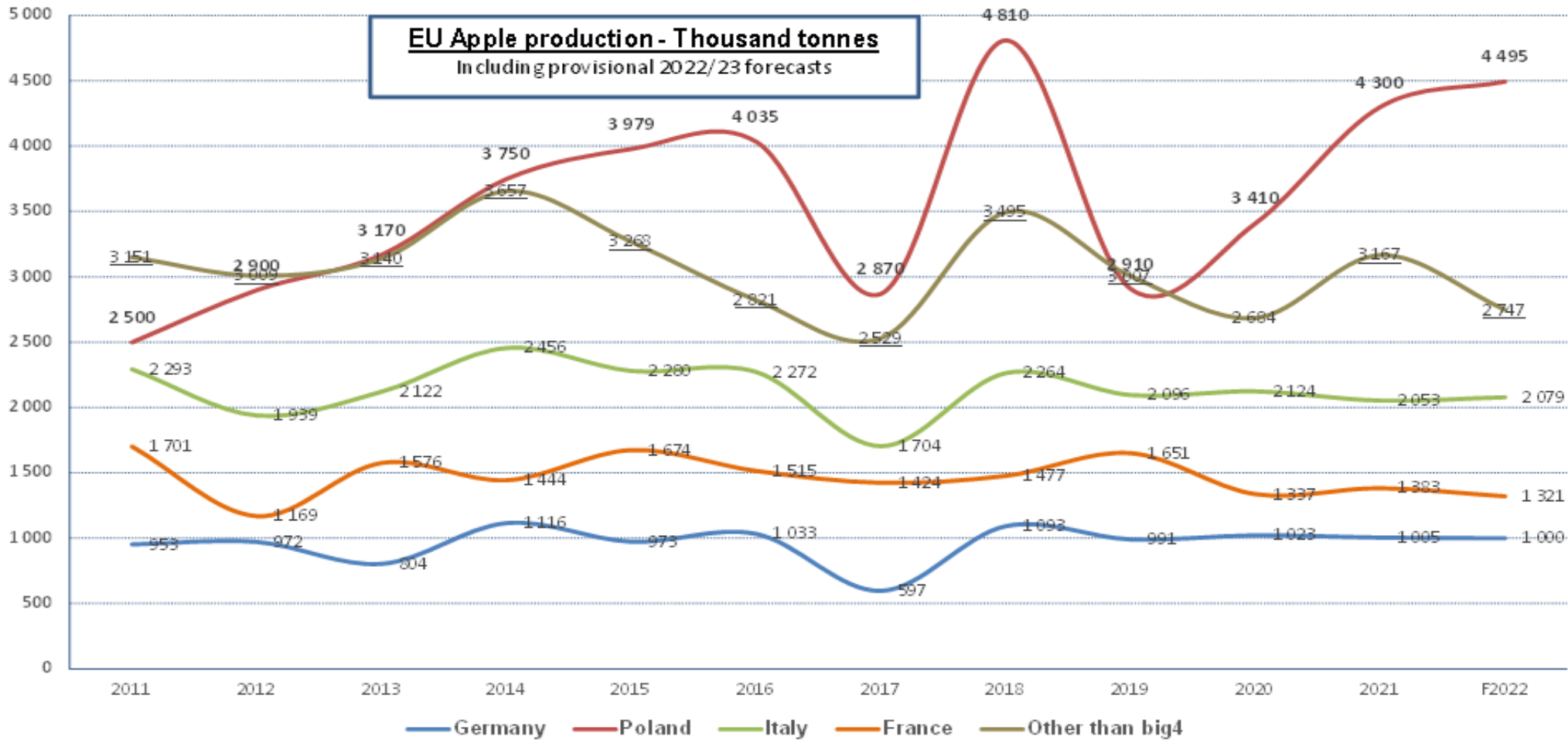
**2.3. Extreme weather events**

**2.4. Apple stocks**



Update

### EU Apple production - Thousand tonnes Including provisional 2022/23 forecasts



Data source: Wapa and Eurostat

Further detail

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## APPLES - PRODUCTION IN THE EUROPEAN UNION - 2011 to 2022

Sep '22 update

Data source	Nr		Country	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	F2022		avg '17-'21 = avg5	F22 / '21 %	F22 / avg5 %
wapa	1	BE	Belgium	305	220	220	318	285	234	88	231	242	168	250	215	[R]	196	-14	10
estat	2	BG	Bulgaria	40	31	55	55	58	45	45	50	44	38	44	34		44		
wapa	3	CZ	Czech Rep	79	118	121	131	156	139	102	145	103	118	110	127		116	15	10
wapa	4	DK	Denmark	20	18	23	26	24	24	19	24	15	24	18	24		20	33	20
wapa	5	DE	Germany	953	972	804	1 116	973	1 033	597	1 093	991	1 023	1 005	1 000	[R]	942	0	6
estat	6	EE	Estonia	1	1	2	1	2	3	1	2	2	1	2	2		1		
estat	7	IE	Ireland	20	12	15	20	19	22	21	20	20	19	20	20		20		
wapa	8	EL	Greece	305	242	236	245	242	259	231	301	276	280	246	294		267	20	10
wapa	9	ES	Spain	507	391	464	505	482	495	480	476	555	425	563	400	[R]	500	-29	-20
wapa	10	FR	France	1 701	1 169	1 576	1 444	1 674	1 515	1 424	1 477	1 651	1 337	1 383	1 321	(*)	1 454	-4	-9
wapa	11	HR	Croatia	83	59	96	62	101	35	66	86	60	55	65	57		66	-12	-14
wapa	12	IT	Italy	2 293	1 939	2 122	2 456	2 280	2 272	1 704	2 264	2 096	2 124	2 053	2 079	[R]	2 048	1	2
estat	13	CY	Cyprus	7	7	5	5	5	4	4	2	2	2	2	2		2		
wapa	14	LV	Latvia	8	9	15	10	8	10	8	14	10	14	8	8		11	0	-26
wapa	15	LT	Lithuania	49	39	40	27	46	50	48	62	26	60	32	25		46	-22	-45
estat	16	LU	Luxembourg	2	2	2	3	2	2	1	2	2	2	2	2		2		
wapa	17	HU	Hungary	301	750	585	920	522	498	530	782	452	350	520	350		527	-33	-34
estat	18	MT	Malta	0	0	0	0	0	0	0	0	0	0	0	0		0		
wapa	19	NL	Netherlands	418	281	314	353	336	317	228	267	272	220	243	240	[R]	246	-1	-2
wapa	20	AT	Austria	199	157	155	188	177	40	67	184	146	126	120	148		129	23	15
wapa	21	PL	Poland	2 500	2 900	3 170	3 750	3 979	4 035	2 870	4 810	2 910	3 410	4 300	4 750	[Ra]	3 660	10	30
wapa	22	PT	Portugal	265	221	284	272	329	263	314	267	354	278	368	280	[R]	316	-24	-11
wapa	23	RO	Romania	412	351	387	382	336	327	230	425	327	389	444	410		363	-8	13
wapa	24	SI	Slovenia	73	45	56	68	71	12	6	72	36	46	44	38	[R]	41	-14	-7
wapa	25	SK	Slovakia	33	36	42	46	40	17	15	44	35	30	31	34		31	10	10
estat	26	FI	Finland	5	5	5	5	6	6	7	7	8	7	8	7		7		
wapa	27	SE	Sweden	17	14	17	16	21	20	18	32	20	32	27	30		26	11	16
		<b>EU27</b>		<b>10 598</b>	<b>9 989</b>	<b>10 812</b>	<b>12 423</b>	<b>12 174</b>	<b>11 676</b>	<b>9 124</b>	<b>13 139</b>	<b>10 655</b>	<b>10 578</b>	<b>11 908</b>	<b>11 897</b>		<b>11 081</b>	<b>-0,1</b>	<b>7,4</b>
		DE,FR,IT,PL	Big4	7 447	6 980	7 672	8 766	8 906	8 855	6 595	9 644	7 648	7 894	8 741	9 150		8 104	5	13
		(of EU27)	Big4 % on EU2	70	70	71	71	73	76	72	73	72	75	73	77		73		
			Oth, %	30	30	29	29	27	24	28	27	28	25	27	23		27		
wapa	28	UK	Un. Kingdom	226	162	204	206	243	239	207	219	205	196	186	233	[R]	203	25	15
		<b>EU27+UK</b>		<b>10 824</b>	<b>10 151</b>	<b>11 016</b>	<b>12 629</b>	<b>12 417</b>	<b>11 915</b>	<b>9 331</b>	<b>13 358</b>	<b>10 860</b>	<b>10 774</b>	<b>12 094</b>	<b>12 130</b>		<b>11 283</b>	<b>0</b>	<b>8</b>

Source: Table prepared by Agri.E2 with WAPA, Eurostat data (indicated as "estat" above) and expert advice.

(\*) ANPP, FR national producers association, estimate.

[Ra] Revised upwards with a higher percentage than normal, about 65-70% expected to go to processing.

[R] Revision downwards done.





## POLISH APPLE PRODUCTION, ESTIMATES AND FORECASTS – Marketing year 2022/23

Current estimates for the Polish apple crop for the ongoing marketing year range from more than 4,5 Million tonnes to below 4,0 million tonnes, the final figure depending very much, among other factors, on the level of shortage of workers for harvesting.

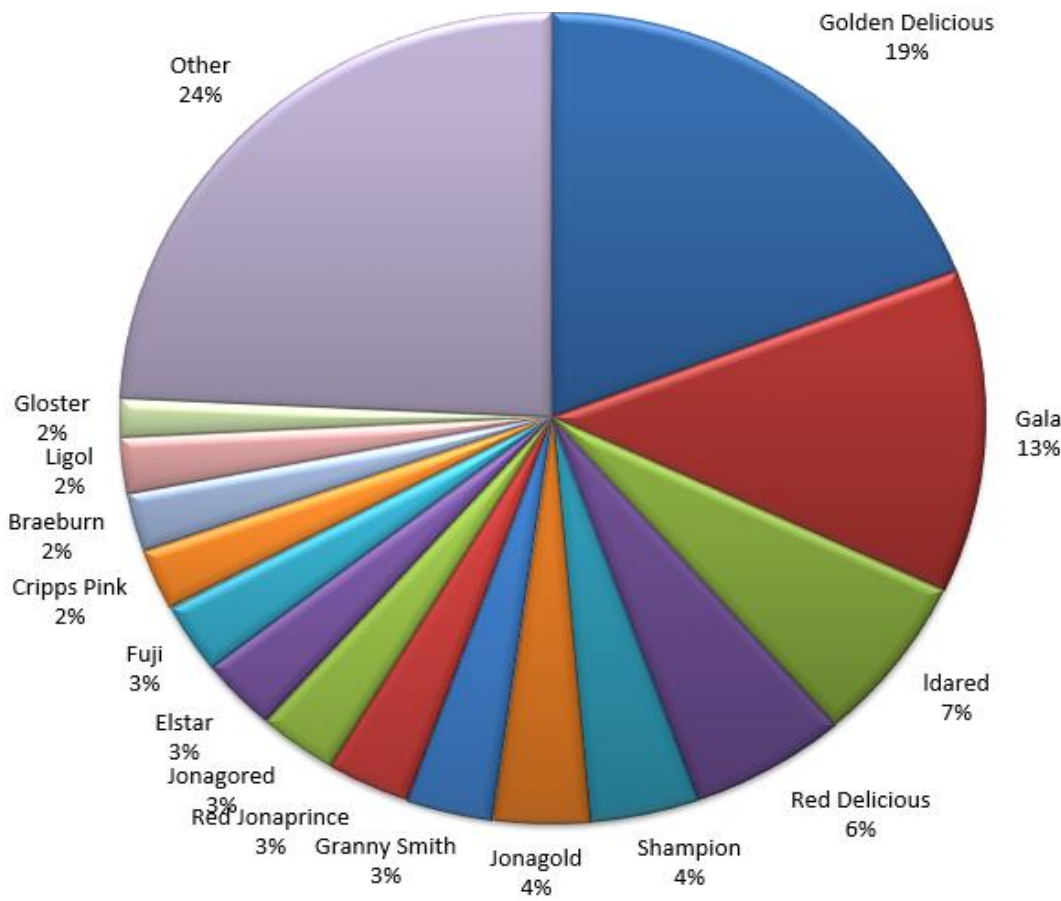
Million tonnes, data source	<u>2021/22</u>	<u>2022/23 rev.1</u>	<u>2022/23 rev.2</u>	<u>2022/23 rev.3</u>
<b>WAPA</b>	4,3	4,495	4,750	Revision downwards expected
<b>Central Statistical Office (CSO)</b>	4,0	4,2	4,2	
<b>Association of Polish Fruit Growers (*)</b>	4,0	4.0	lower than 4.0	

(\*) Published by agricultural media



000 tonnes 2017-21 avg	
Golden Delicious	2 133
Gala	1 437
Idared	742
Red Delicious	655
Shampion	457
Jonagold	399
Granny Smith	359
Red Jonaprince	351
Jonagored	329
Elstar	328
Fuji	310
Cripps Pink	268
Braeburn	262
Ligol	248
Gloster	169
Other	2 705

## Apple varieties in the EU



Based on 20 Member States that are the main producers plus the UK (small producer)

Data source: WAPA



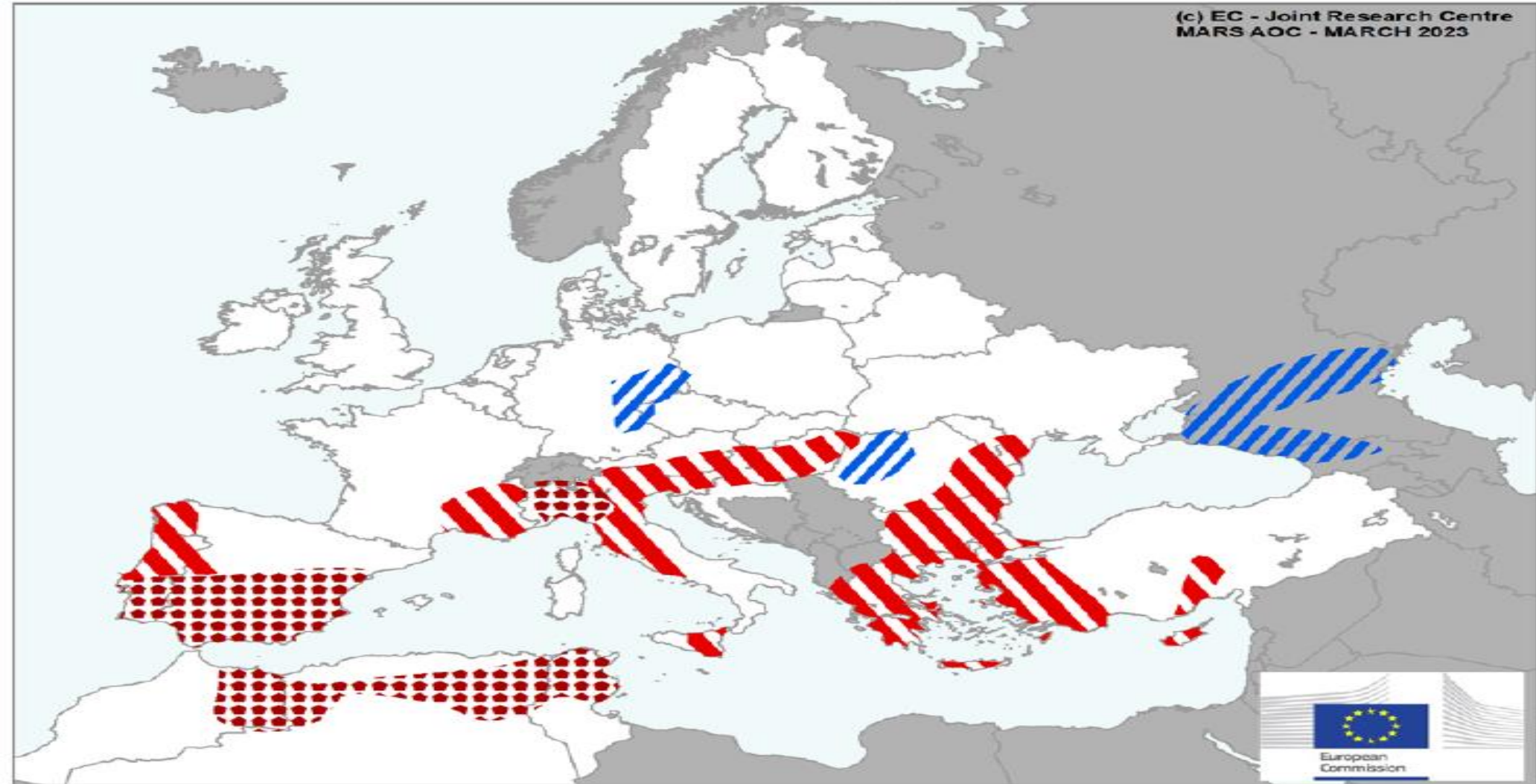
WEATHER FACTORS  
IN FRUIT AND VEGETABLE  
SUPPLY



# AREAS OF CONCERN - EXTREME WEATHER EVENTS

Based on weather data from 1 February 2023 until 17 March 2023

(c) EC - Joint Research Centre  
MARS AOC - MARCH 2023



 Drought

 Rain surplus

 Rain deficit

# AVERAGE DAILY TEMPERATURE

Averaged values

from : 01 February 2023

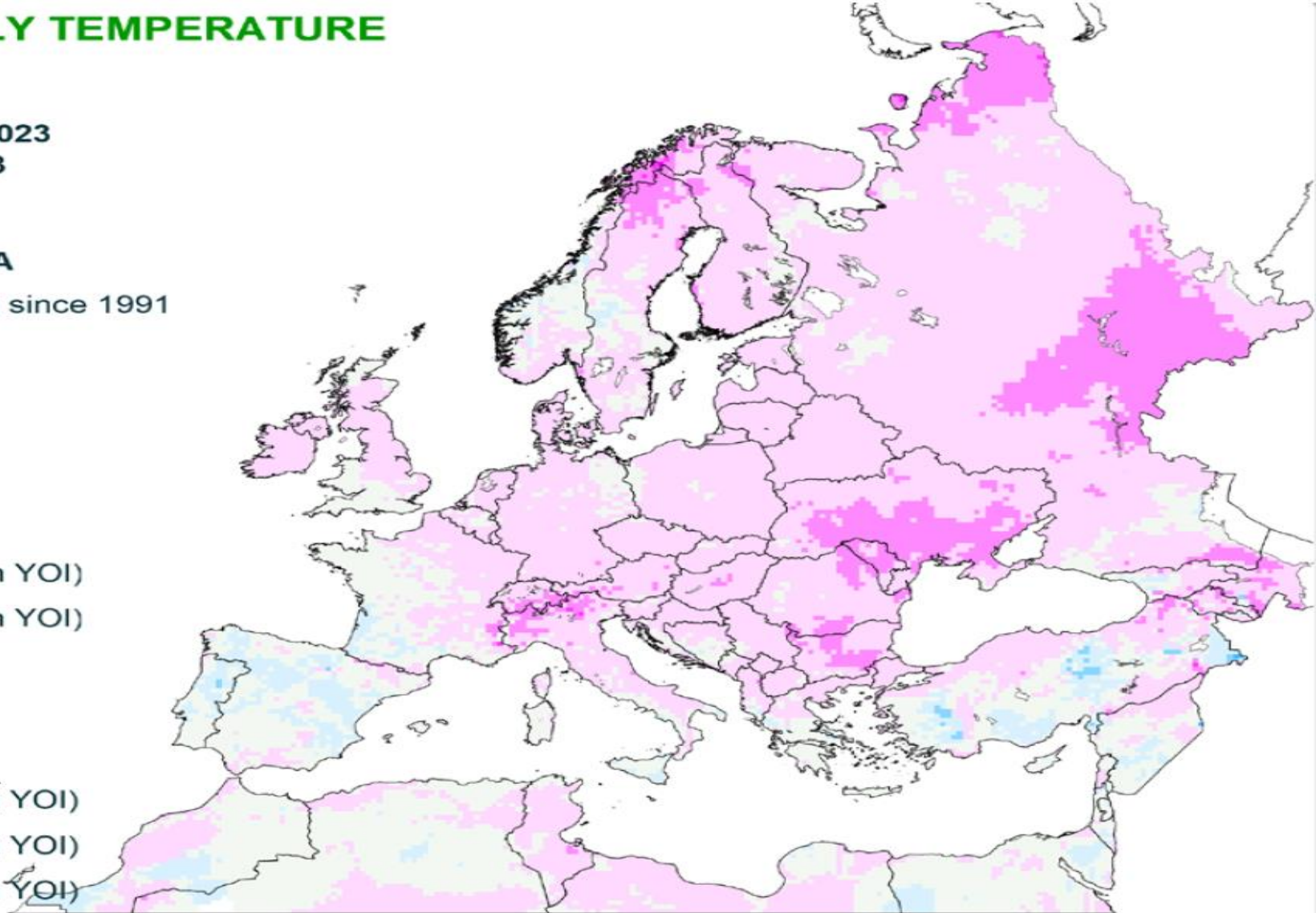
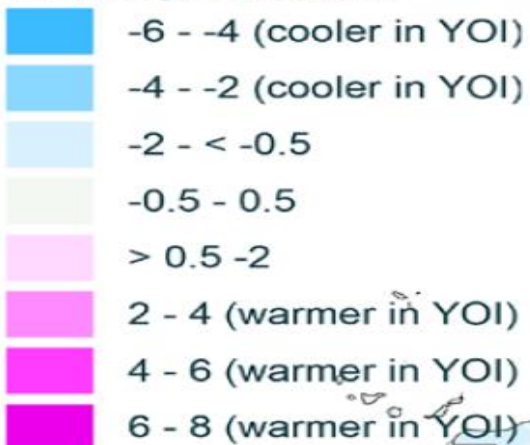
to : 13 March 2023

Deviation:

Year of interest - LTA

Average Period: Long since 1991

Unit: degrees Celsius



15/03/2023

resolution: 25x25 km



© European Union 2023

Source: EC Joint Research Centre (AGRI4CAST project)

Processed by: MARSOP6 consortium

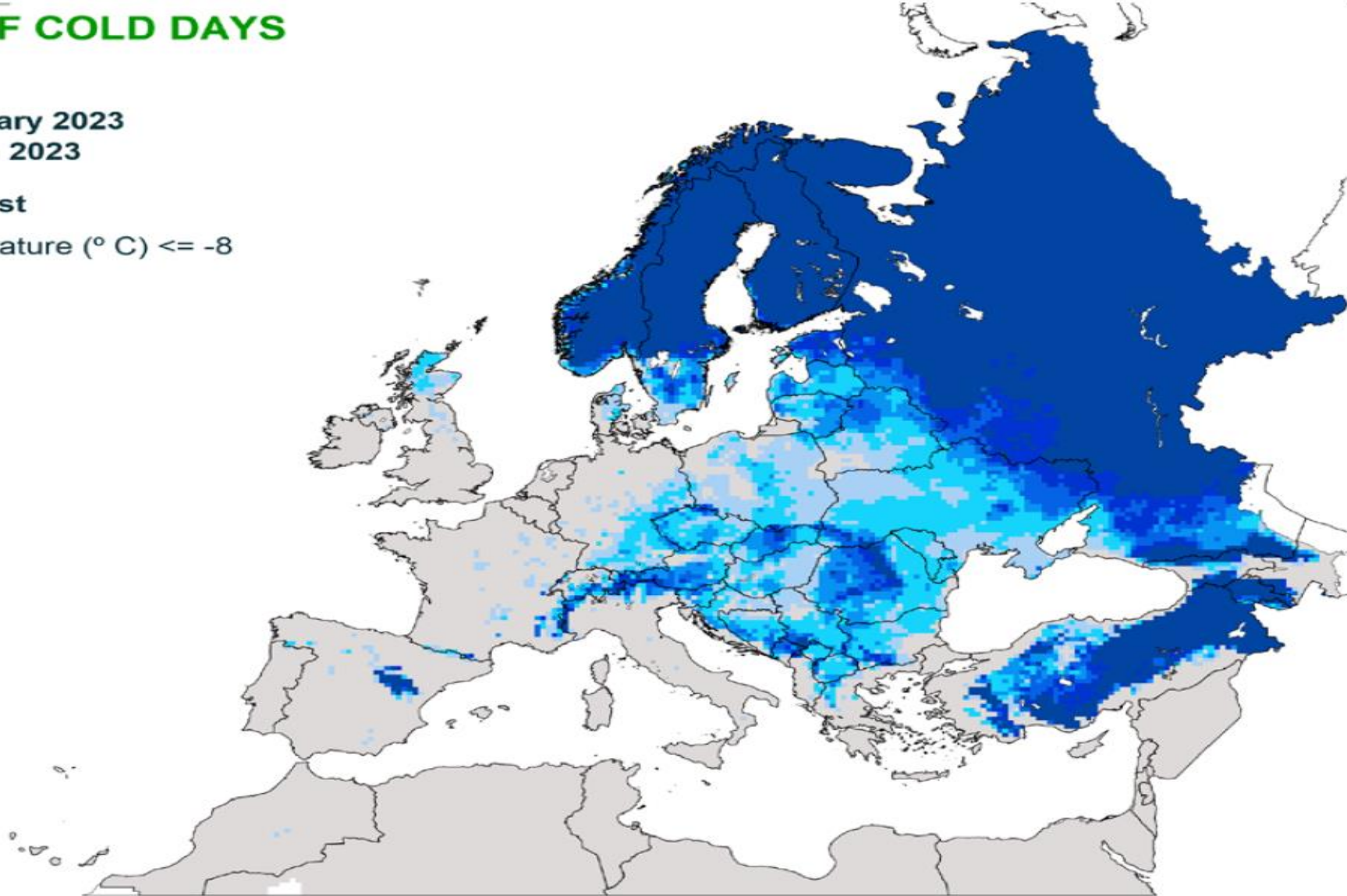
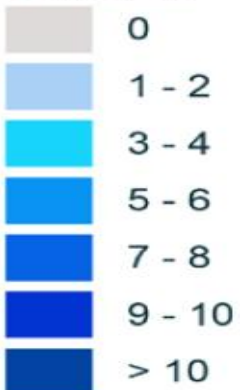
# NUMBER OF COLD DAYS

from : 01 February 2023  
to : 13 March 2023

## Period of interest

Minimum temperature (° C)  $\leq -8$

Unit: days



15/03/2023  
resolution: 25x25 km



© European Union 2023  
Source: EC Joint Research Centre (AGRI4CAST project)  
Processed by: MARSOP6 consortium

# RAINFALL

## Cumulated values

from : 01 February 2023

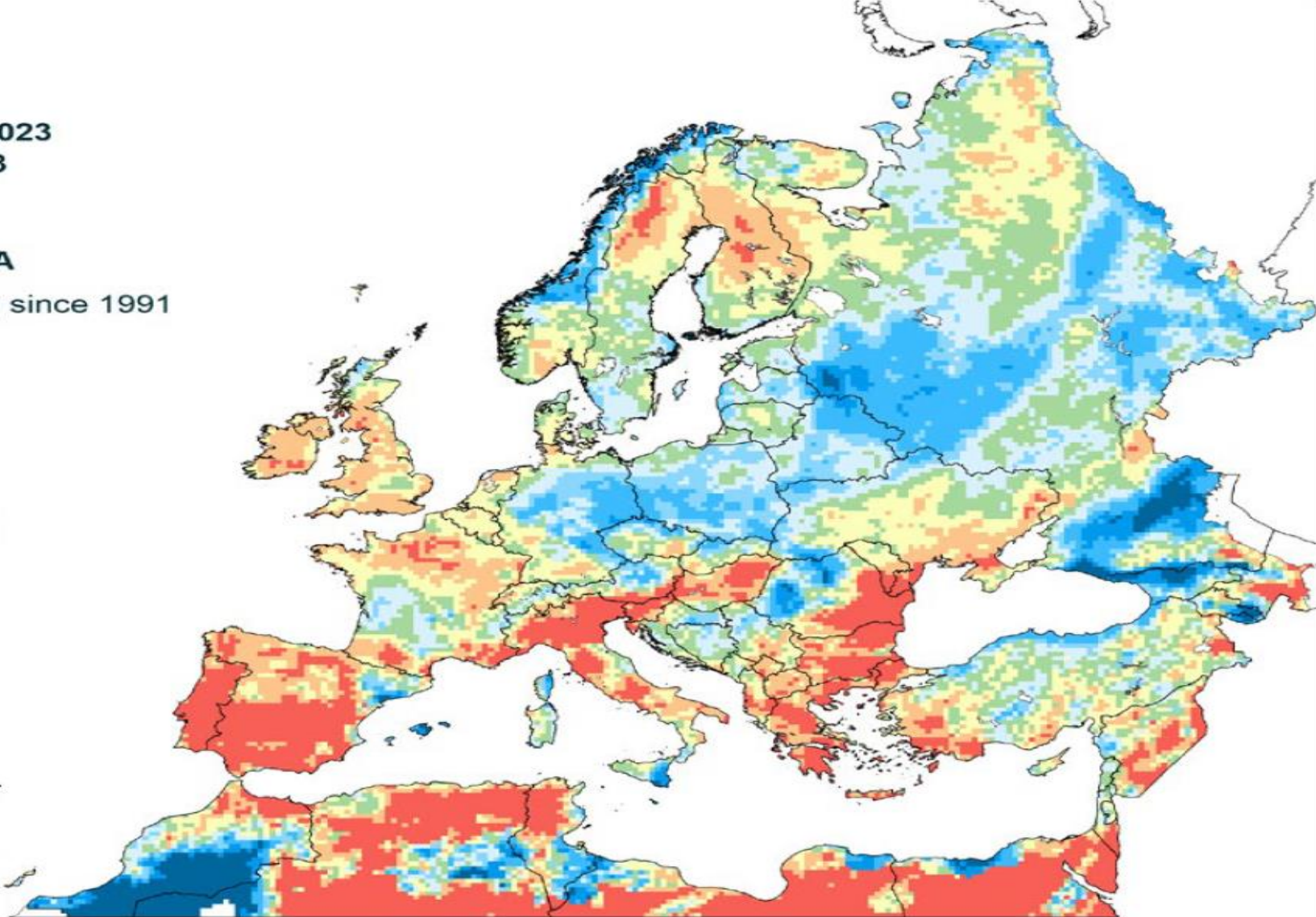
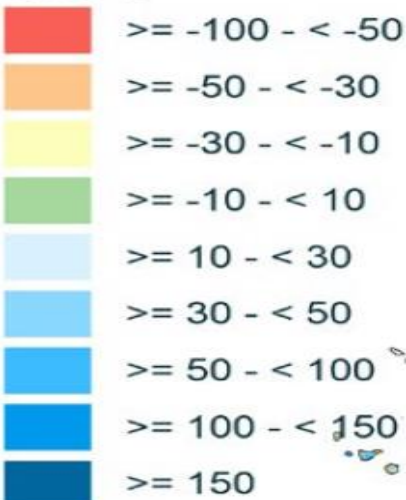
to : 13 March 2023

Deviation:

Year of interest - LTA

Average Period: Long since 1991

Unit: %



15/03/2023

resolution: 25x25 km



© European Union 2023

Source: EC Joint Research Centre (AGRI4CAST project)

Processed by: MARSOP6 consortium

# ANNEX

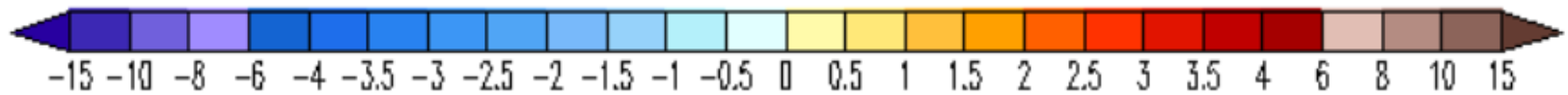
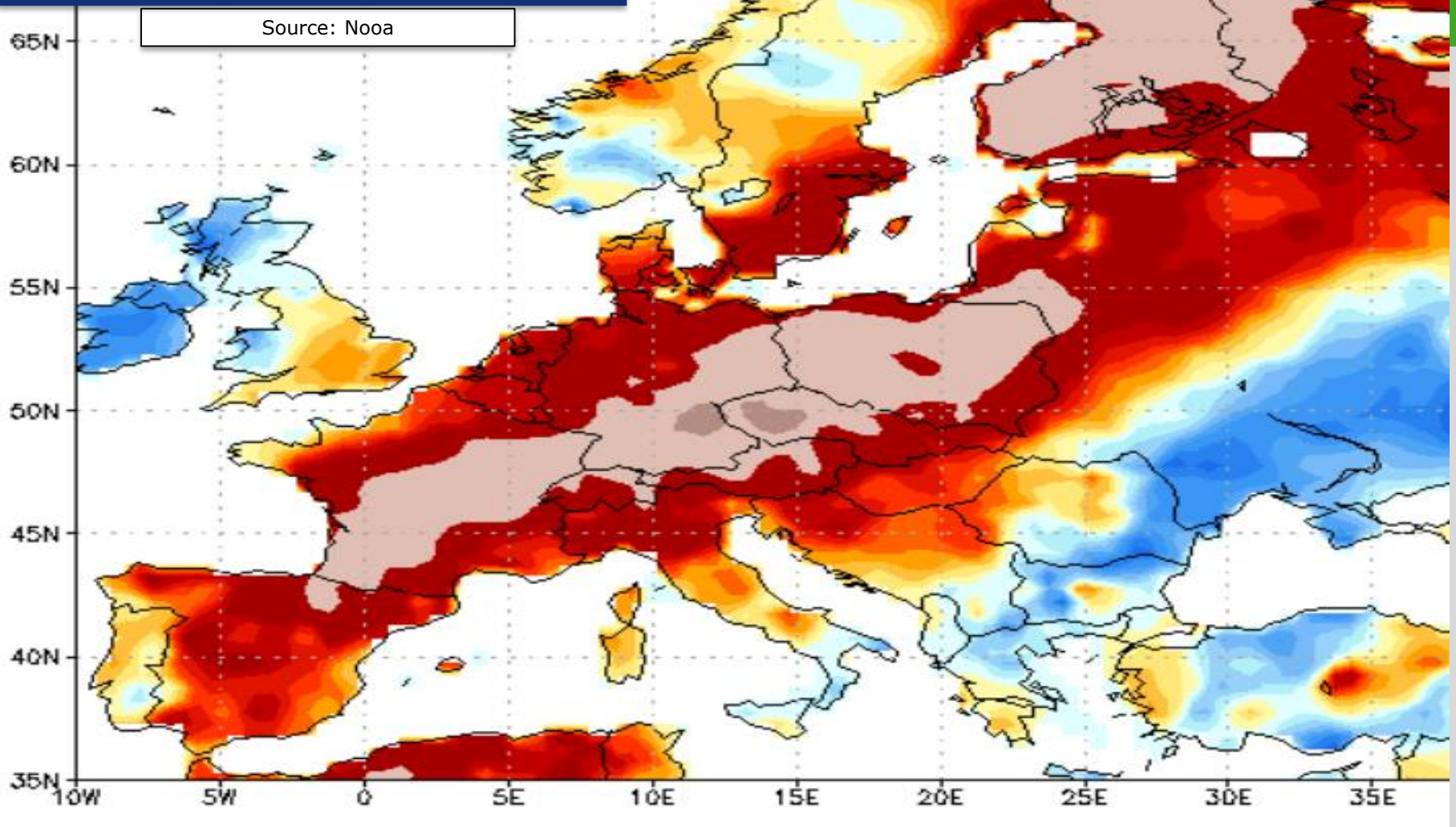
## BACKGROUND MAPS



## Heatwave/drought analysis

Last 2 month temperature anomaly, 16 Oct 2022

Source: Noaa



# MINIMUM DAILY TEMPERATURE

Lowest values

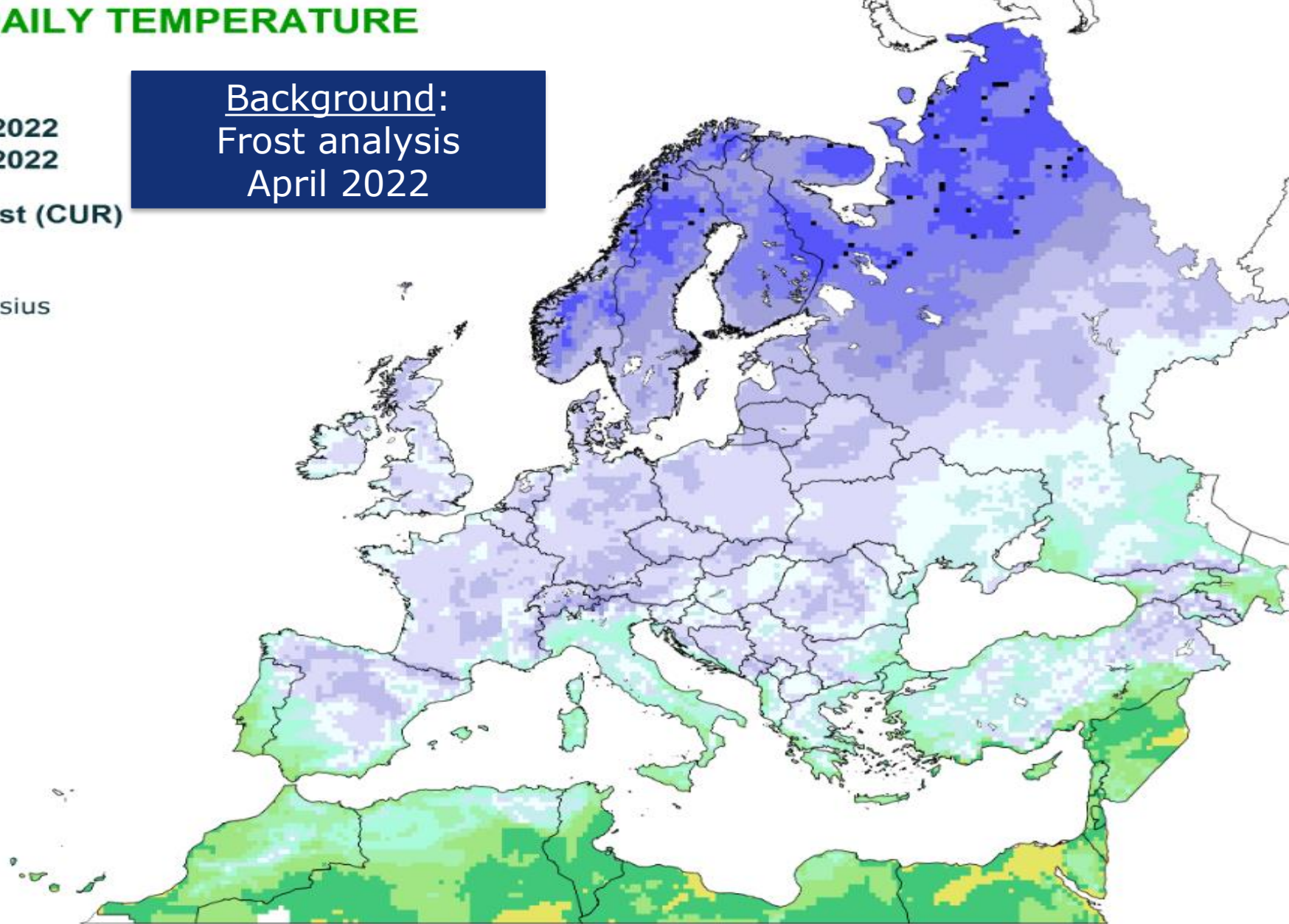
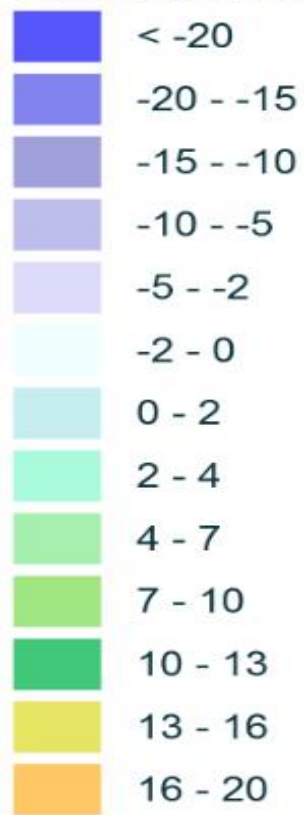
from : 01 April 2022

to : 12 April 2022

Background:  
Frost analysis  
April 2022

Period of interest (CUR)

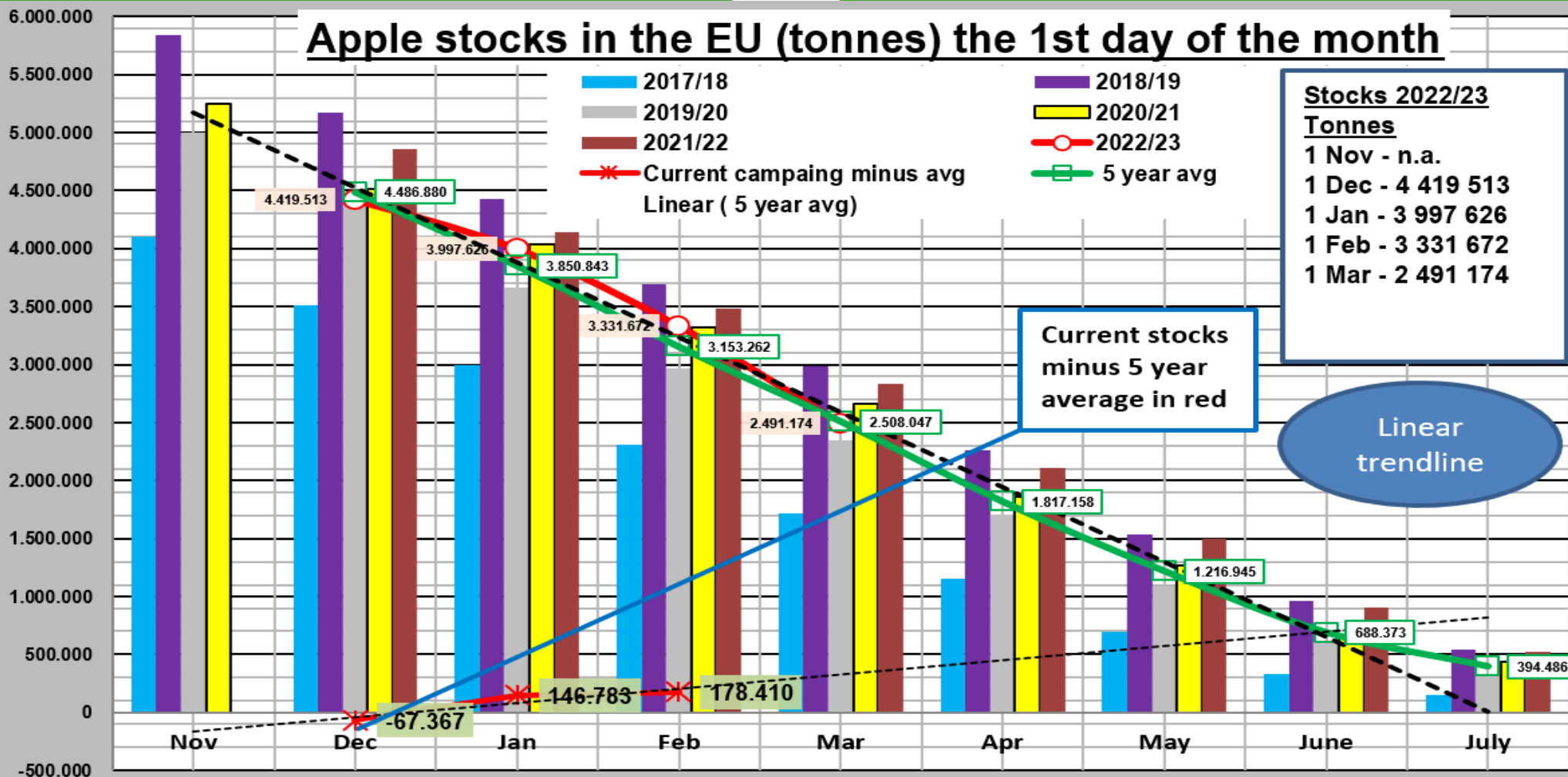
Unit: degrees Celsius



Source: JRC



# Apple stocks in the EU (tonnes) the 1st day of the month

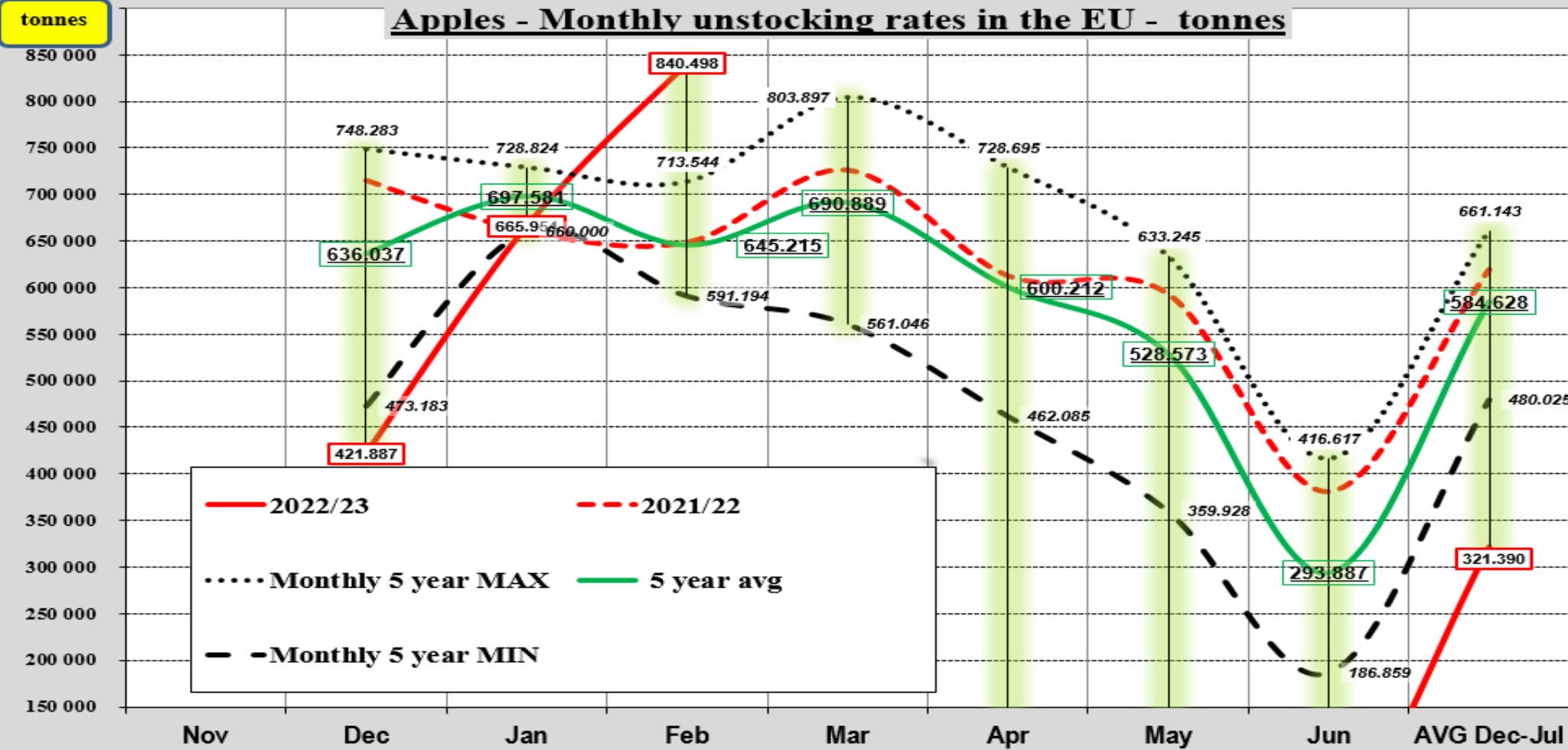


Data sources: Wapa and AMI

Further detail



## Apples - Monthly unstocking rates in the EU - tonnes



Data source: Wapa and AMI



## 3. TRADE

**3.1. Export development (export diversification is in section 5)**

**3.2. Import monitoring**

**3.3. Comparison of exports and imports of apples**

Marketing Year

Month

**EU27 EXPORT VOLUME – 080810**  
 Provisional data 2022/23 – Data source: Taxud

Partial data for the last months

Marketing Year	Total Marketing Year	Partial data for the last months											
		Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
2022/2023	<b>571 187</b>	37 262	78 057	117 631	120 365	111 961	105 911	-	-	-	-	-	-
2021/2022	<b>1 140 897</b>	50 802	87 104	105 641	130 882	135 648	104 167	111 935	119 096	99 056	101 941	64 431	30 195
2020/2021	<b>1 101 123</b>	33 707	74 434	113 971	127 556	120 499	109 290	122 527	124 295	93 972	81 462	61 285	38 125
2019/2020	<b>1 161 878</b>	51 311	96 506	134 779	139 181	139 767	123 111	133 498	121 602	94 082	64 633	42 340	21 070
2018/2019	<b>1 398 077</b>	32 166	73 311	114 935	141 138	136 330	145 178	171 534	163 297	133 747	145 408	83 296	57 736
2017/2018	<b>915 619</b>	41 088	68 095	84 995	96 765	102 355	100 748	99 646	110 442	76 871	65 483	50 561	18 569
2016/2017	<b>1 689 803</b>	51 189	103 183	123 780	146 828	172 301	190 002	198 171	207 106	174 702	163 940	111 879	46 722
2015/2016	<b>1 790 529</b>	54 211	108 366	142 152	153 746	161 584	171 047	216 459	210 362	212 422	180 115	122 239	57 827
2014/2015	<b>2 000 368</b>	60 898	120 431	152 253	160 293	175 794	222 613	241 097	265 605	236 376	200 258	103 480	61 268
2013/2014	<b>1 819 594</b>	22 385	72 331	134 238	143 280	165 651	195 542	220 706	219 321	247 068	202 092	125 070	71 909
2012/2013	<b>1 799 845</b>	48 723	93 863	142 811	169 062	163 145	216 213	207 067	226 917	248 744	156 919	89 844	36 537
2011/2012	<b>1 751 964</b>	46 189	94 677	118 979	146 140	164 601	210 589	239 464	246 609	192 183	169 465	80 062	43 006
2010/2011	<b>1 299 479</b>	34 435	59 296	83 623	100 054	134 337	156 791	180 995	202 580	142 632	112 802	61 074	30 862

Marketing Year Month 

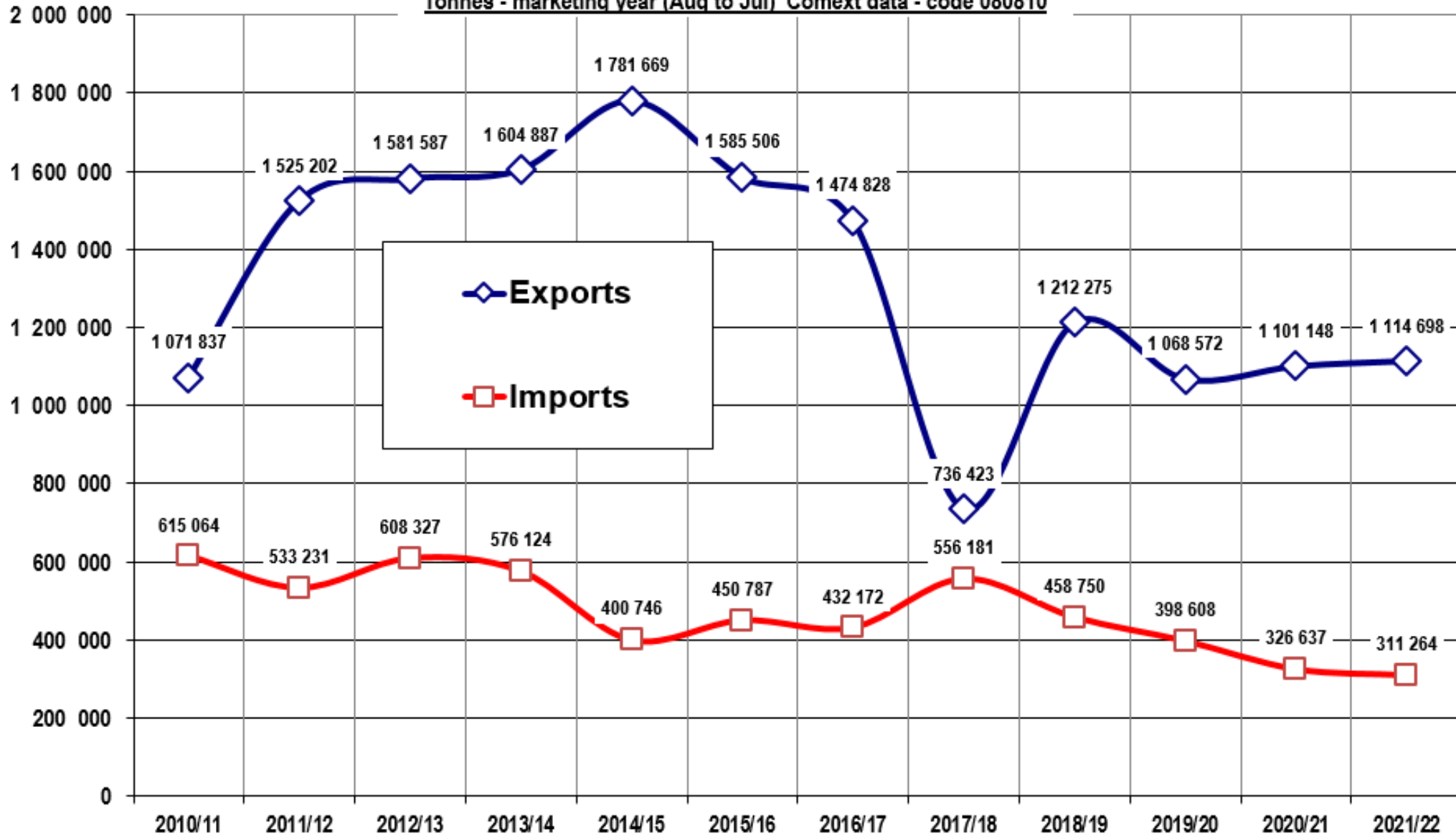
**EU27 IMPORT VOLUME – 080810**  
 Provisional data 2022/23 – Data source: Taxud

Partial data for the last months

Marketing Year	Total Marketing	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
	Year												
2022/2023	<b>99 809</b>	28 369	17 318	18 934	20 016	10 317	4 854	-	-	-	-	-	-
2021/2022	<b>312 691</b>	35 737	24 363	23 392	29 263	13 997	5 755	6 696	10 421	14 672	29 786	64 489	54 121
2020/2021	<b>326 946</b>	19 402	25 419	27 792	27 989	9 125	3 892	4 525	6 960	20 192	38 608	70 203	72 840
2019/2020	<b>382 721</b>	21 315	22 235	42 119	36 806	9 583	9 228	7 944	8 935	22 852	47 548	83 342	70 815
2018/2019	<b>360 589</b>	34 765	28 688	26 602	22 163	14 610	3 519	6 293	11 782	27 583	50 638	68 036	65 910
2017/2018	<b>412 445</b>	23 474	20 300	28 530	18 807	9 425	5 956	4 695	8 045	38 767	67 865	92 791	93 791
2016/2017	<b>307 704</b>	16 924	11 642	18 712	21 509	8 057	4 750	5 679	8 424	27 759	44 202	64 886	75 162
2015/2016	<b>326 059</b>	16 106	10 778	21 759	23 783	12 006	8 543	10 380	10 359	34 479	44 982	66 542	66 341
2014/2015	<b>277 934</b>	9 551	4 466	9 484	10 669	10 471	3 808	6 607	10 833	35 111	43 549	66 919	66 466
2013/2014	<b>425 005</b>	20 814	15 068	29 567	28 876	10 084	7 881	11 028	19 387	62 327	74 337	77 070	68 568
2012/2013	<b>424 654</b>	15 461	7 767	7 777	8 616	5 011	4 246	4 532	17 086	66 746	92 775	94 042	100 594
2011/2012	<b>376 083</b>	8 529	13 007	31 943	20 958	4 740	3 117	4 816	19 746	53 856	72 916	78 893	63 562
2010/2011	<b>456 609</b>	20 013	7 091	20 374	28 203	4 735	2 774	3 478	24 775	76 556	100 108	103 159	65 346

# ExtraEU27 trade for apples 2010/11 to 2021/22

Tonnes - marketing year (Aug to Jul) Comext data - code 080810







## 4. TRADE INDICATORS (II)

- Total export value by MS
- Total import value by MS
- Export diversification

**EU27 AVERAGE EXPORT PRICE – 080810**  
 Provisional data 2022/23 – Data source: Taxud

Partial data for the last months

Marketing Year	Month	EU27 AVERAGE EXPORT PRICE – 080810 Provisional data 2022/23 – Data source: Taxud												
		Total Marketing Year	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
2022/2023		<b>86</b>	82	81	78	90	91	89	-	-	-	-	-	-
2021/2022		<b>77</b>	70	77	72	74	78	87	83	81	79	72	69	72
2020/2021		<b>76</b>	87	78	73	79	80	80	78	77	79	72	64	60
2019/2020		<b>73</b>	68	73	71	70	72	71	73	74	76	77	80	90
2018/2019		<b>60</b>	79	74	65	66	67	64	60	61	56	45	41	46
2017/2018		<b>78</b>	83	87	80	83	78	78	78	74	81	74	62	85
2016/2017		<b>58</b>	72	78	69	68	63	58	53	54	49	50	48	57
2015/2016		<b>59</b>	81	82	69	65	68	63	56	53	46	47	46	53
2014/2015		<b>52</b>	70	67	62	56	55	48	45	47	51	45	49	50
2013/2014		<b>57</b>	84	77	67	64	63	58	56	56	51	50	49	54
2012/2013		<b>60</b>	79	77	68	65	62	56	56	54	53	55	59	75
2011/2012		<b>57</b>	70	65	62	62	59	55	52	54	53	51	62	68
2010/2011		<b>64</b>	70	72	67	68	67	66	62	58	59	60	68	74

Source: Taxud

**EU27 AVERAGE IMPORT PRICE – 080810**  
 Provisional data 2022/23 – Data source: Taxud

Partial data for the last two months

Marketing Year	Month	EU27 AVERAGE IMPORT PRICE – 080810 Provisional data 2022/23 – Data source: Taxud												
Total Marketing Year	Partial data for the last two months													
	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul		
2022/2023	<b>72</b>	137	<b>105</b>	28	19	29	55	-	-	-	-	-	-	
2021/2022	<b>105</b>	134	119	48	18	22	32	32	36	78	122	148	150	
2020/2021	<b>98</b>	117	59	31	19	35	50	49	63	94	114	132	137	
2019/2020	<b>86</b>	111	55	21	17	30	36	35	55	92	115	122	124	
2018/2019	<b>87</b>	122	44	22	16	18	61	39	40	84	102	119	121	
2017/2018	<b>108</b>	119	65	39	33	33	49	54	82	107	121	132	133	
2016/2017	<b>106</b>	123	84	30	26	25	59	49	84	108	126	129	133	
2015/2016	<b>98</b>	122	81	32	25	35	29	26	65	100	117	132	129	
2014/2015	<b>107</b>	105	91	43	37	44	46	34	70	104	122	128	128	
2013/2014	<b>89</b>	112	62	25	23	45	40	32	68	98	107	110	116	
2012/2013	<b>112</b>	105	74	46	44	75	77	70	94	103	118	125	124	
2011/2012	<b>85</b>	94	34	20	23	68	55	47	77	86	99	107	112	
2010/2011	<b>83</b>	93	57	20	21	57	59	74	84	87	89	95	101	

Source: Taxud

**Further detail**

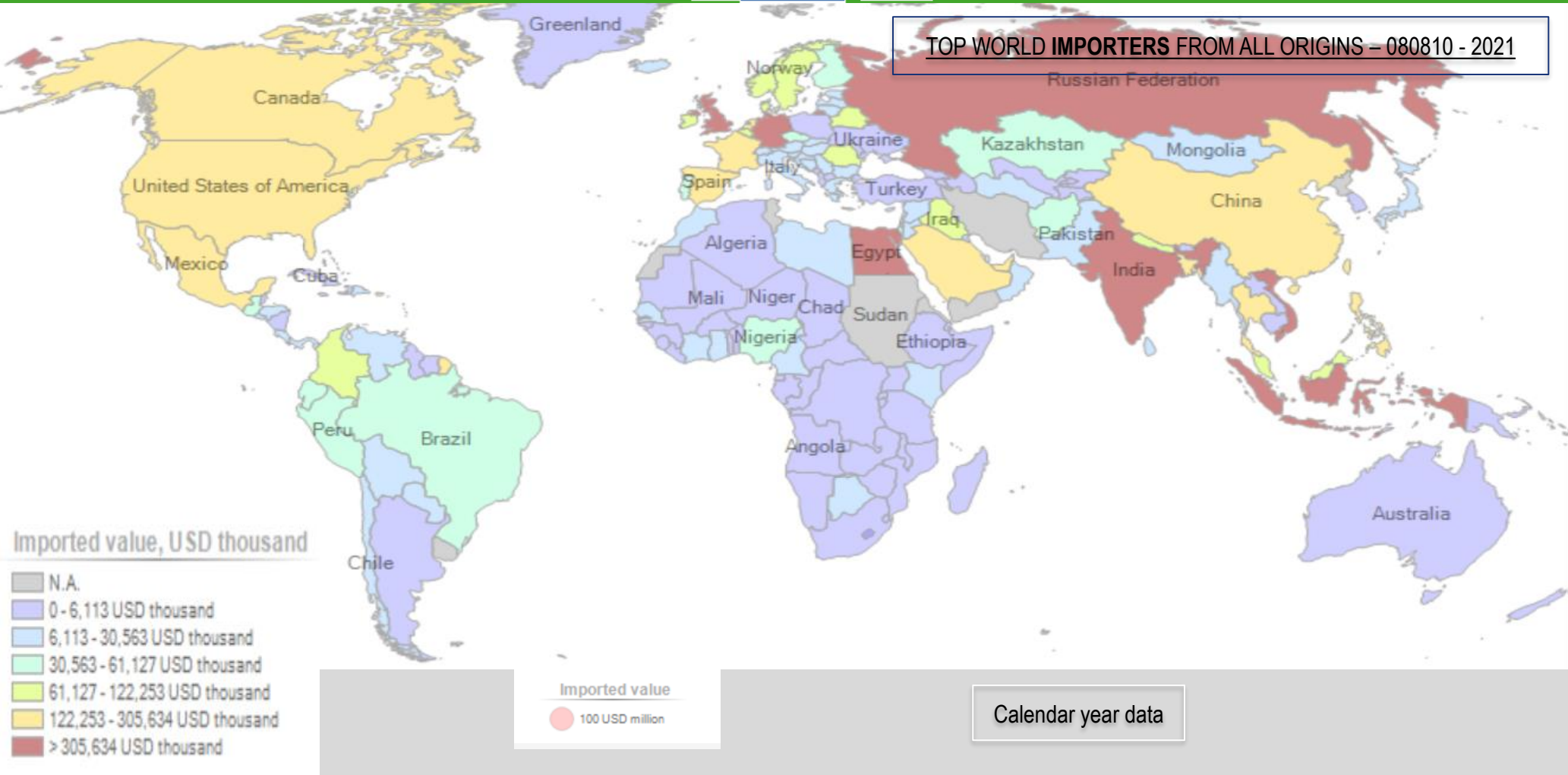


## 5. EXPORT DIVERSIFICATION

- **Map of top world importers/exporters of apples - map**
- **Bar chart on top world importers/exporters and annual growth rates**
- **Key trade indicators on top world importers/exporters of apples**
- **World consumption of apples, main players**



TOP WORLD IMPORTERS FROM ALL ORIGINS – 080810 - 2021



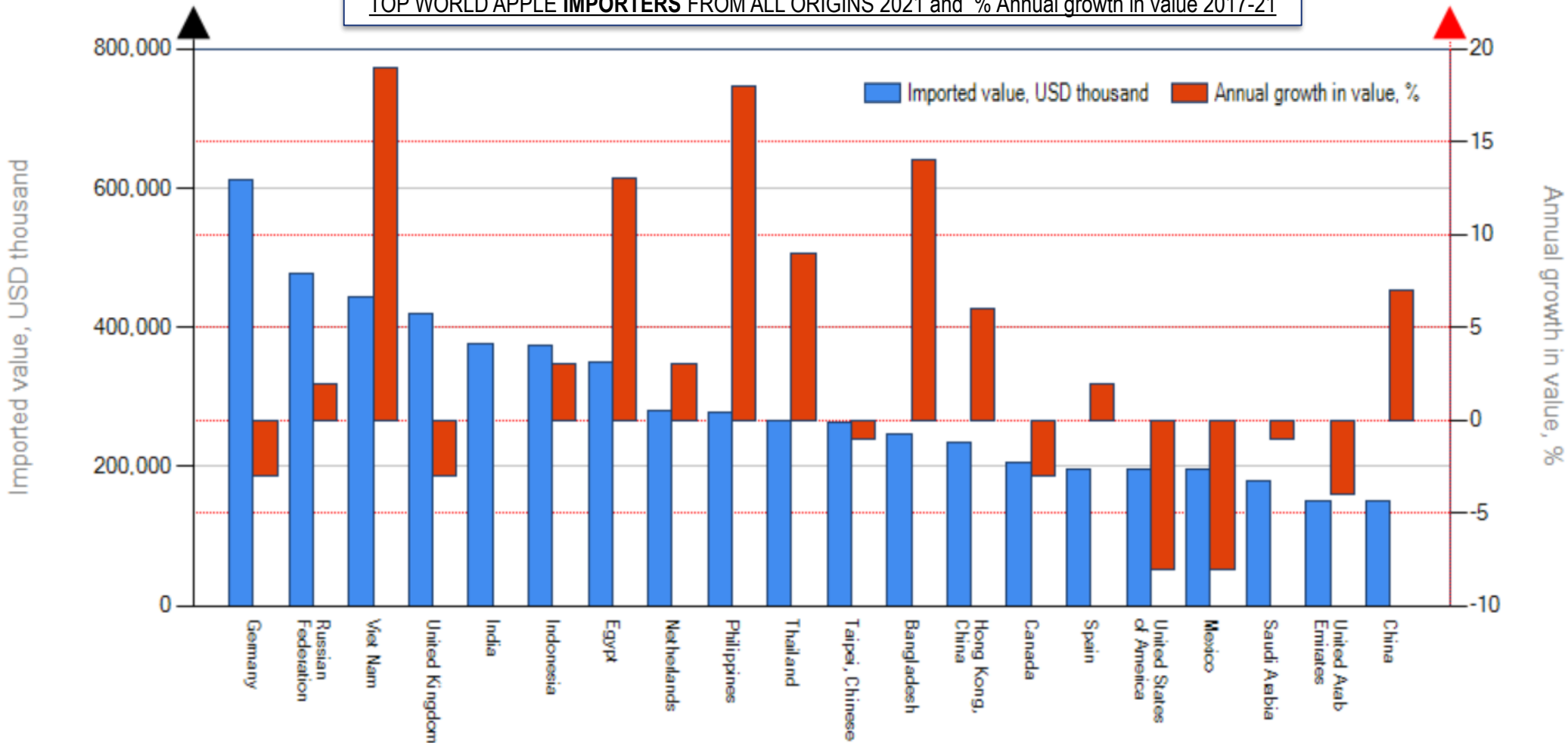
Further detail

Data source: ITC/COMTRADE



Calendar year data

TOP WORLD APPLE IMPORTERS FROM ALL ORIGINS 2021 and % Annual growth in value 2017-21



Data source: ITC/COMTRADE

Further detail



TOP WORLD APPLE IMPORTERS FROM ALL ORIGINS - 080810

Importers	Value imported in 2021 (USD thousand) ▼	Trade balance in 2021 (USD thousand) i	Quantity imported in 2021	Quantity Unit	Unit value (USD/unit) i	Annual growth in value between 2017-2021 (%) i	Annual growth in quantity between 2017-2021 (%) i	Share in world imports (%) i	Average tariff (estimated) applied by the country (%) i	Ease of doing business ranking i	Number of non-tariff requirements applied by the country
World	8,463,751	-505,282	0	No quantity		1		100			
<a href="#">Germany</a> i	611,268	-556,014	595,986	Tons	1,026	-3	-6	7.2	4.9	22	20
<a href="#">Russian Federation</a> i	477,432	-472,376	615,999	Tons	775	2	-5	5.6	4.1	28	216
<a href="#">Viet Nam</a>	444,069	-443,115	285,437	Tons	1,556	19	19	5.2	9.1	70	
<a href="#">United Kingdom</a> i	420,880	-410,253	327,473	Tons	1,285	-3	-10	5	4.9	8	20
<a href="#">India</a> i	377,427	-363,082	436,194	Tons	865	0	3	4.5	48.5	63	47
<a href="#">Indonesia</a> i	374,148	-374,148	189,363	Tons	1,976	3	3	4.4	4.7	73	27
<a href="#">Egypt</a> i	348,935	-348,526	281,955	Tons	1,238	13		4.1	30.2	114	N/A
<a href="#">Netherlands</a> i	280,440	-52,480	243,678	Tons	1,151	3	3	3.3	4.9	42	20
<a href="#">Philippines</a> i	279,187	-279,187	184,265	Tons	1,515	18	7	3.3	6.4	95	46
<a href="#">Thailand</a> i	266,610	-260,441	188,428	Tons	1,415	9	6	3.2	7.4	21	
<a href="#">Taipei, Chinese</a>	264,663	-264,475	146,992	Tons	1,801	-1	-3	3.1	25.4	15	
<a href="#">Bangladesh</a>	245,698	-245,697	262,098	Tons	937	14	5	2.9	25	168	
<a href="#">Hong Kong, China</a> i	235,235	-176,559	165,148	Tons	1,424	6	0	2.8	0	3	19
<a href="#">Canada</a> i	205,692	-165,505	196,264	Tons	1,048	-3	-3	2.4	1.9	23	104
<a href="#">Spain</a> i	197,496	-85,695	0	No quantity		2		2.3	4.9	30	20
<a href="#">United States of America</a> i	197,132	719,537	115,620	Tons	1,705	-8	-9	2.3	0	6	49
<a href="#">Mexico</a> i	196,765	-196,233	153,959	Tons	1,278	-8	-14	2.3	19.3	60	9
<a href="#">Saudi Arabia</a> i	179,335	-179,333	119,677	Tons	1,498	-1	-8	2.1	0	62	144
<a href="#">United Arab Emirates</a>	151,412	-128,530	206,207	Tons	734	-4	3	1.8	0	16	54
<a href="#">China</a> i	150,977	1,278,605	67,985	Tons	2,221	7	1	1.8	16.2	31	74

Data source: ITC/COMTRADE

Further detail

## TOP WORLD IMPORTERS – Thousand Euro – Calendar year data



Importers	Imported value in 2010	Imported value in 2011	Imported value in 2012	Imported value in 2013	Imported value in 2014	Imported value in 2015	Imported value in 2016	Imported value in 2017	Imported value in 2018	Imported value in 2019	Imported value in 2020	Imported value in 2021 ▼
World	4,867,642	5,208,142	5,978,766	6,393,676	5,936,080	6,982,817	6,982,595	7,060,472	6,836,948	6,897,443	6,928,892	7,154,528
<a href="#">Germany</a> <i>i</i>	439,511	483,536	464,479	533,864	447,191	455,688	464,563	610,276	618,201	441,369	577,322	516,713
<a href="#">Russian Federation</a> <i>i</i>	501,628	543,463	619,400	594,347	467,040	342,964	334,707	359,946	438,121	351,920	417,763	403,580
<a href="#">Viet Nam</a> <i>i</i>	18,489	18,093	18,376	18,457	18,411	34,337	46,633	59,168	70,884	112,055	121,888	375,377
<a href="#">United Kingdom</a> <i>i</i>	383,154	371,386	426,655	460,278	406,602	442,759	397,993	417,125	421,214	378,932	386,388	355,776
<a href="#">India</a> <i>i</i>	91,348	133,233	152,492	159,250	176,322	189,255	214,857	272,219	253,434	217,911	176,372	319,044
<a href="#">Indonesia</a> <i>i</i>	126,580	133,831	132,585	132,240	150,644	125,237	238,116	278,995	301,207	305,159	285,825	316,272
<a href="#">Egypt</a> <i>i</i>	70,826	96,280	181,023	166,621	231,762	402,320	323,880	193,338	194,305	366,386	270,946	294,959
<a href="#">Netherlands</a> <i>i</i>	212,023	241,156	248,204	346,120	263,615	203,250	189,845	192,566	243,738	178,883	205,161	237,060
<a href="#">Philippines</a> <i>i</i>	31,556	47,614	59,388	67,601	62,751	79,003	138,498	135,107	136,438	151,052	220,413	236,001
<a href="#">Thailand</a> <i>i</i>	92,392	97,617	124,053	139,430	128,243	211,308	217,717	178,485	161,225	189,095	226,612	225,369
<a href="#">Taipei, Chinese</a> <i>i</i>	114,370	103,857	127,677	153,117	184,492	215,279	250,051	236,144	205,729	227,830	189,991	223,723
<a href="#">Bangladesh</a> <i>i</i>	41,033	42,846	39,169	29,336		77,965	140,628	140,153	132,536	182,924	202,972	207,693
<a href="#">Hong Kong, China</a> <i>i</i>	90,223	103,737	119,932	99,614	111,488	160,087	157,869	160,320	167,749	225,255	184,297	198,847
<a href="#">Canada</a> <i>i</i>	138,719	143,905	183,313	209,202	188,257	178,608	234,607	198,172	179,138	190,471	165,760	173,874
<a href="#">Spain</a> <i>i</i>	161,528	171,980	167,333	208,776	164,336	161,296	172,604	157,028	158,957	147,044	162,003	166,946
<a href="#">United States of America</a> <i>i</i>	160,179	118,619	158,389	197,386	213,468	219,428	280,505	237,106	191,382	213,567	158,740	166,638
<a href="#">Mexico</a> <i>i</i>	173,575	153,111	226,489	259,023	207,753	252,117	212,190	249,064	245,738	252,791	218,619	166,328
<a href="#">Saudi Arabia</a> <i>i</i>	117,960	126,502	146,101	141,928	134,280	172,556	176,118	164,287	163,869	165,979	162,445	151,594
<a href="#">United Arab Emirates</a> <i>i</i>			160,065	177,890	183,031	210,347	192,423	171,928	137,713	127,199	119,264	127,991
<a href="#">China</a> <i>i</i>	57,183	83,108	71,827	50,797	34,846	132,118	111,305	101,968	99,397	195,659	121,380	127,623

Data source: ITC/COMTRADE

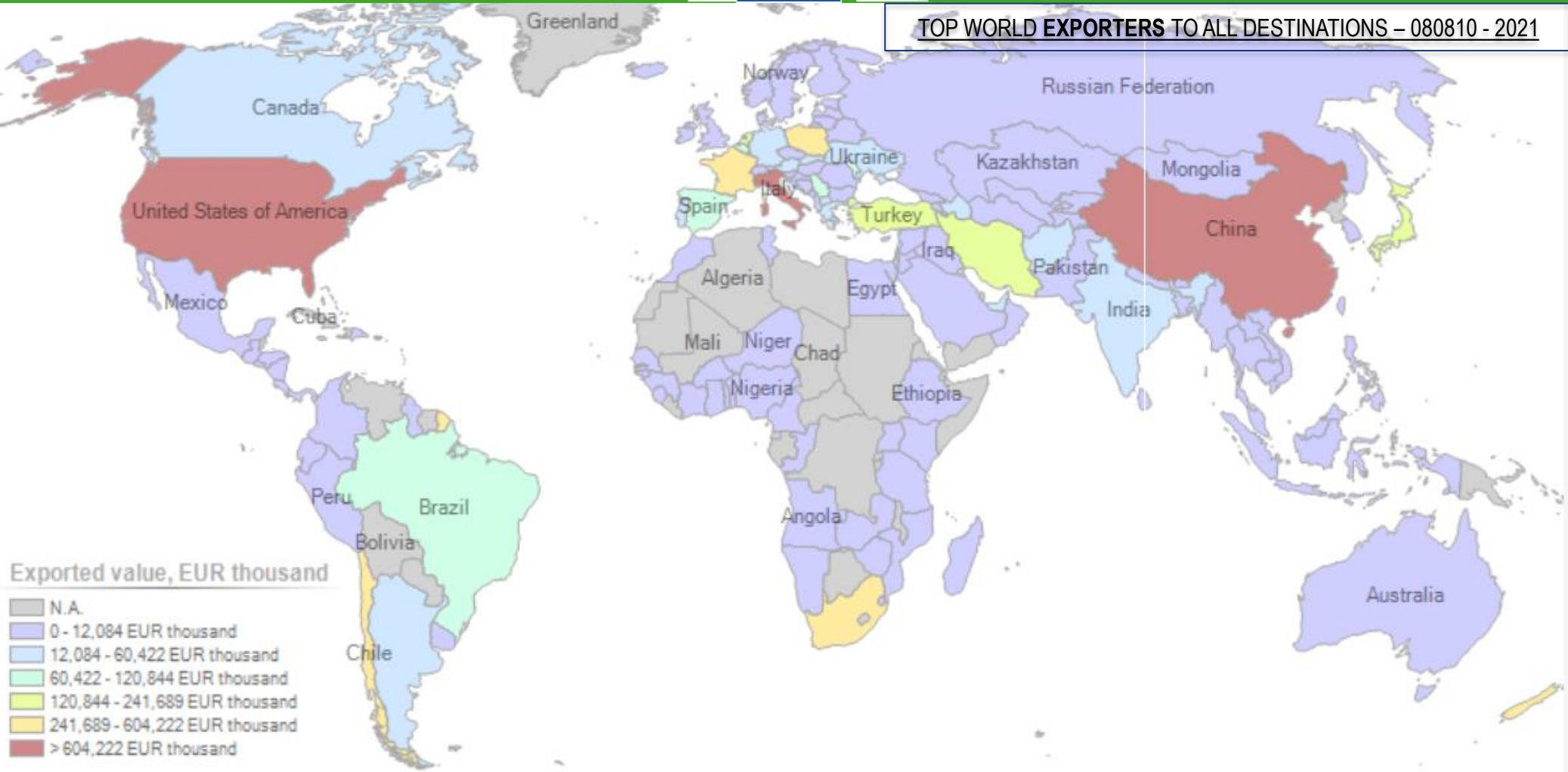
Further detail





Calendar year data

### TOP WORLD EXPORTERS TO ALL DESTINATIONS – 080810 - 2021



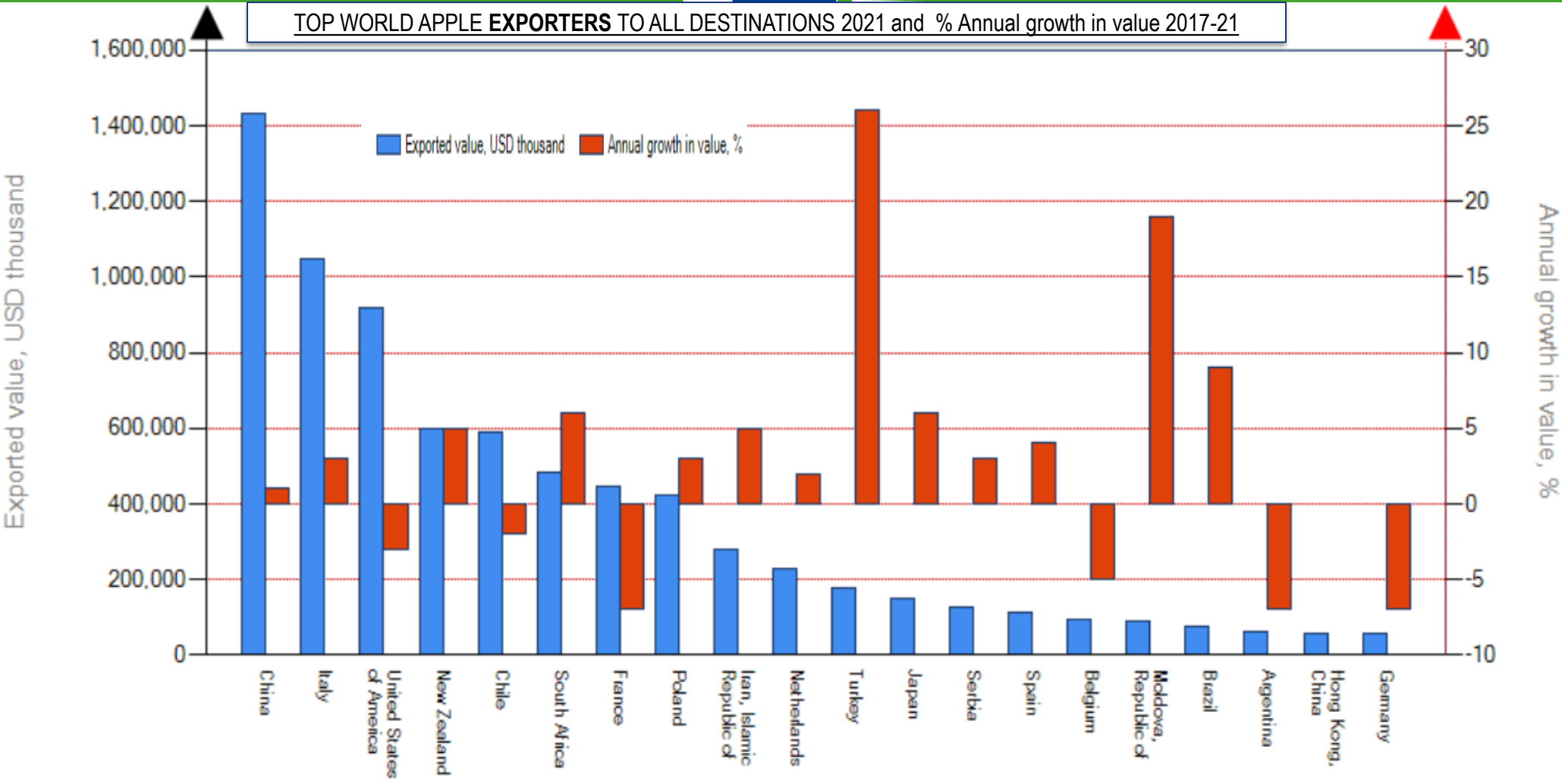
Data source: ITC/COMTRADE

Further detail



Calendar year data

TOP WORLD APPLE EXPORTERS TO ALL DESTINATIONS 2021 and % Annual growth in value 2017-21



Data source: ITC/COMTRADE

Further detail



Calendar year data

TOP WORLD APPLE EXPORTERS TO ALL DESTINATIONS - 080810

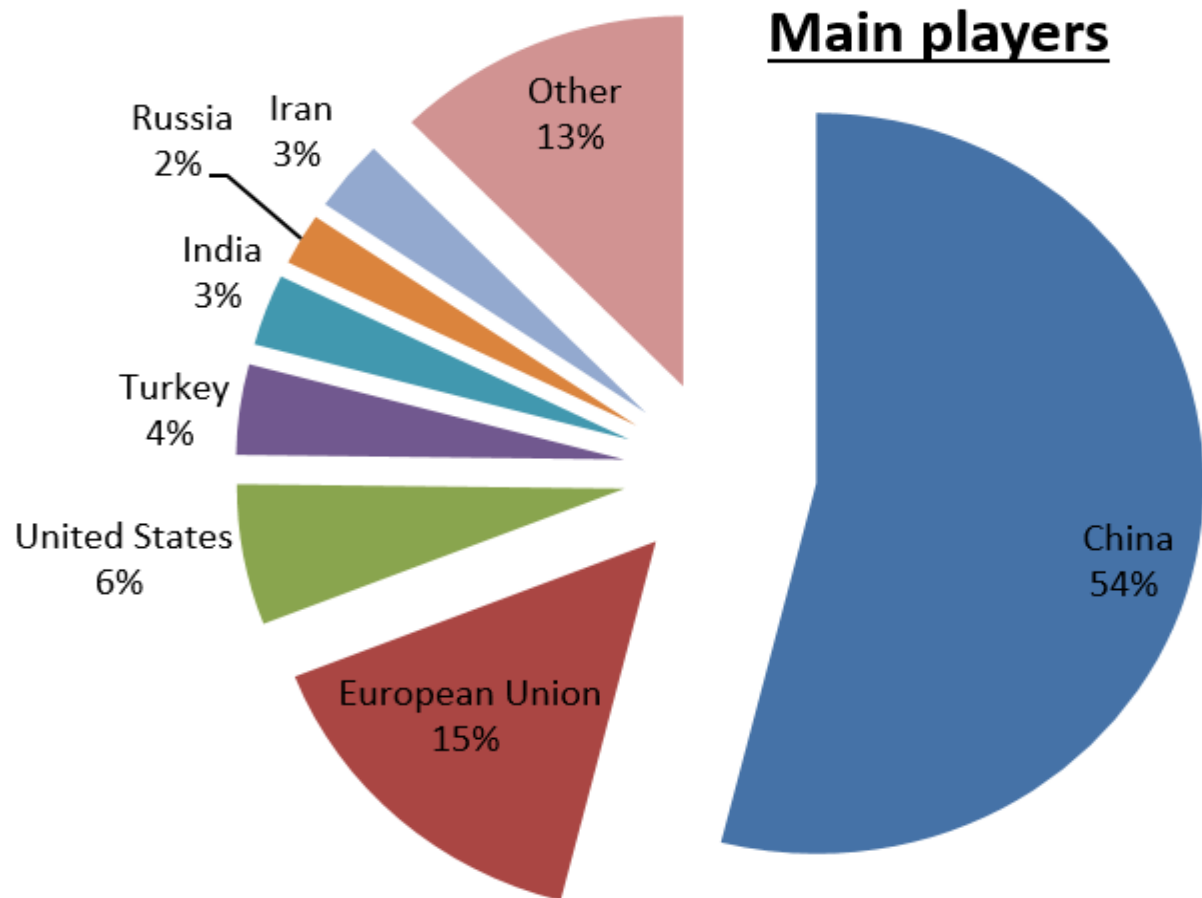
Exporters	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
	Exported quantity, Tons	Exported quantity, Tons	Exported quantity, Tons	Exported quantity, Tons	Exported quantity, Tons	Exported quantity, Tons	Exported quantity, Tons	Exported quantity, Tons	Exported quantity, Tons	Exported quantity, Tons	Exported quantity, Tons	Exported quantity, Tons
World	No Quantity	No Quantity	No Quantity	No Quantity	No Quantity	No Quantity	No Quantity	No Quantity	No Quantity	No Quantity	No Quantity	No Quantity
<a href="#">China</a> <i>i</i>	1,122,953	1,034,635	975,878	994,664	865,048	833,356	1,323,328	1,334,874	1,118,486	971,146	1,058,094	1,078,352
<a href="#">Iran, Islamic Republic of</a> <i>i</i>	268,118	226,301	399,227	205,510	433,997	321,468	354,243	604,241	424,942	746,440	884,751	985,444
<a href="#">Poland</a> <i>i</i>	705,319	526,475	941,678	1,216,294	1,026,593	845,105	1,009,193	941,867	794,318	973,806	657,310	921,863
<a href="#">Italy</a> <i>i</i>	857,330	975,852	933,361	787,795	974,847	1,143,837	1,050,232	1,033,666	686,053	934,728	938,141	920,271
<a href="#">United States of America</a> <i>i</i>	791,203	833,415	874,003	891,229	888,632	989,078	776,657	910,290	927,760	832,423	807,525	752,834
<a href="#">Chile</a> <i>i</i>	842,131	801,470	761,984	833,129	819,591	673,181	821,287	716,299	778,972	673,864	660,011	643,736
<a href="#">South Africa</a> <i>i</i>	391,520	713,568	580,972	No Quantity	381,885	465,695	510,897	553,048	448,668	464,388	508,451	589,186
<a href="#">New Zealand</a> <i>i</i>	259,683	299,452	284,450	322,137	307,893	358,510	380,924	380,845	408,743	432,194	443,879	403,307
<a href="#">Turkey</a> <i>i</i>	80,208	87,302	68,774	126,007	112,719	142,155	140,595	201,181	238,345	257,682	211,493	354,560
<a href="#">France</a> <i>i</i>	689,569	729,302	626,319	543,441	701,343	634,095	574,927	535,305	431,159	381,354	410,131	307,883
<a href="#">Moldova, Republic of</a> <i>i</i>	162,522	195,790	147,335	194,286	117,481	97,775	131,312	221,984	216,074	218,218	193,506	206,123
<a href="#">Serbia</a> <i>i</i>	107,007	130,182	61,642	115,938	135,982	187,366	232,223	197,406	144,760	217,001	172,778	179,637
<a href="#">Netherlands</a> <i>i</i>	330,996	380,907	313,452	316,742	236,869	201,334	194,725	180,508	191,835	163,113	194,306	158,204
<a href="#">Belgium</a> <i>i</i>	244,292	267,803	182,532	200,429	178,890	232,621	211,207	162,899	112,640	189,150	153,650	125,880
<a href="#">Lebanon</a> <i>i</i>	79,168	61,455	88,118	71,483	53,104	56,944	58,530	70,818	62,084	39,498	50,352	121,125
<a href="#">Spain</a> <i>i</i>	111,765	132,148	130,037	112,833	123,325	130,345	132,729	131,696	118,668	127,076	142,089	116,632
<a href="#">Brazil</a> <i>i</i>	90,818	48,666	72,253	85,429	44,294	60,112	30,646	55,437	70,997	56,713	62,564	99,048
<a href="#">Argentina</a> <i>i</i>	180,436	234,339	132,117	163,598	144,340	106,326	90,909	77,746	93,940	109,341	106,083	89,739
<a href="#">Macedonia, North</a> <i>i</i>	90,105	73,640	85,332	77,070	68,687	82,147	82,268	41,525	49,757	103,075	91,688	80,027
<a href="#">Greece</a> <i>i</i>	43,685	38,629	47,101	54,493	69,598	93,622	88,872	75,395	71,917	89,024	74,787	78,115
<a href="#">Azerbaijan</a> <i>i</i>	42,096	46,640	59,810	41,666	45,575	37,946	66,321	77,489	89,822	96,892	72,088	66,849

Data source: ITC/COMTRADE

Further detail



## World consumption of fresh apples 2019/20 (volume)



### **GENERAL REMARKS AND DISCLAIMERS**

1. Where EU28 is listed it should be read as "EU+UK"; since 1 February 2020 Comext data on EU27 is the standard default (1 January 2021 for Taxud data). In a few cases there is a need to check on the content of the slide to distinguish between EU28 and EU27 because an upgrade of apps may still be ongoing.
2. Due to different timings of data processing in different slides and some other factors, such as the intermediate data carrier and methodologies, some differences on figures referred to similar or almost identical indicators are possible.
3. This a working document intended for reflection and analysis not containing any official position of the European Commission.

**The end**

*Thank you*