

EVOLUTION OF FRUIT PRODUCTION WORLDWIDE

DASCĂLU IONUȚ*¹, MĂNESCU CAMELIA¹, MATEOC-SÎRB NICOLETA¹
¹*Banat University of Agricultural Sciences and Veterinary Medicine "King Michael I of Romania" from Timisoara, Faculty of Agricultural Management, Timisoara, Romania*

*Corresponding author's e-mail: dascalu_ionut91@yahoo.com

Abstract: Research aimed at presenting the evolution of fruit production worldwide during 1980-2014. The research methodology consisted in the analysis and processing of literature data. Fruit production ranks among first in both Romanian and world agriculture. During the decades, world area cultivated with fruit tree species increased very much: in 2014, there were over 75 million ha, i.e. 45% more than in 1980.

Keywords: fruit culture, production, world fruit production, evolution.

INTRODUCTION

Fruit tree species are cultivated on all continents. However, due to the different climate areas, to the different biology and range area, fruit tree species have been divided into two great groups: deciduous fruit tree species (specific to the temperate area) and the persistent leaf-fruit tree area (specific to the warm area) [3].

The goal of the research was to analyse the evolution of areas cultivated with fruit trees and of fruit production worldwide in both warm and temperate areas during 1980-2014.

MATERIALS AND METHOD

To edit this paper, we have used a research methods the analysis and processing of data from both official statistics sites (of the United Nation Food and Agriculture Organisation) and data from specialised studies and articles.

RESEARCH RESULTS

Compared to 1980, the area cultivated with fruit trees worldwide increased with over 35 million ha, from 39.4 million ha in 1980 to 77.4 million ha in 2014.

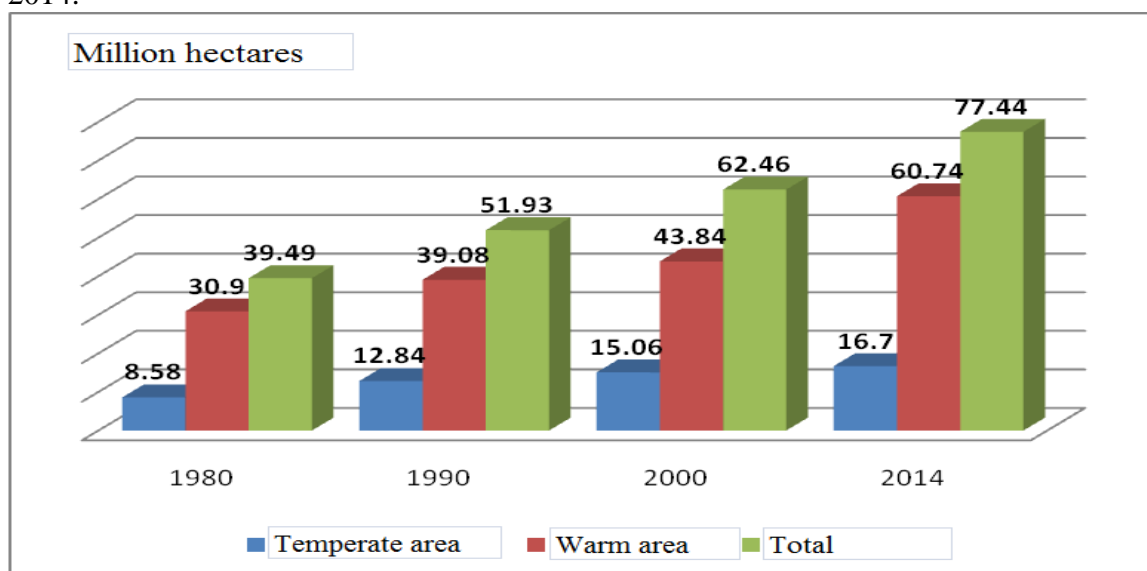


Figure 1. Evolution of area cultivated with main fruit tree species worldwide (1980-2014)

Source: After F.A.O. 2017

In 2014, compared to 1980, areas cultivated with fruit trees in both temperate and warm areas increased with over 95%. Of the two areas where fruit trees are cultivated, the warm one shares 78% of the total area, the largest areas being cultivated with coco nut trees, olive trees, banana trees and orange trees.

From the point of view of areas cultivated with fruit tree species worldwide, the largest areas are cultivated with coco nut trees, olive trees, cocoa tree, banana tree, apple tree and orange tree. Together, they share over 60% of the area cultivated with fruit tree species worldwide.

Among the fruit trees cultivated in the temperate area, apple tree shares the most: over 30% of the area in 2014. It is followed by plum tree (15.09%), almond tree (10.36%) and pear tree (9.42%).

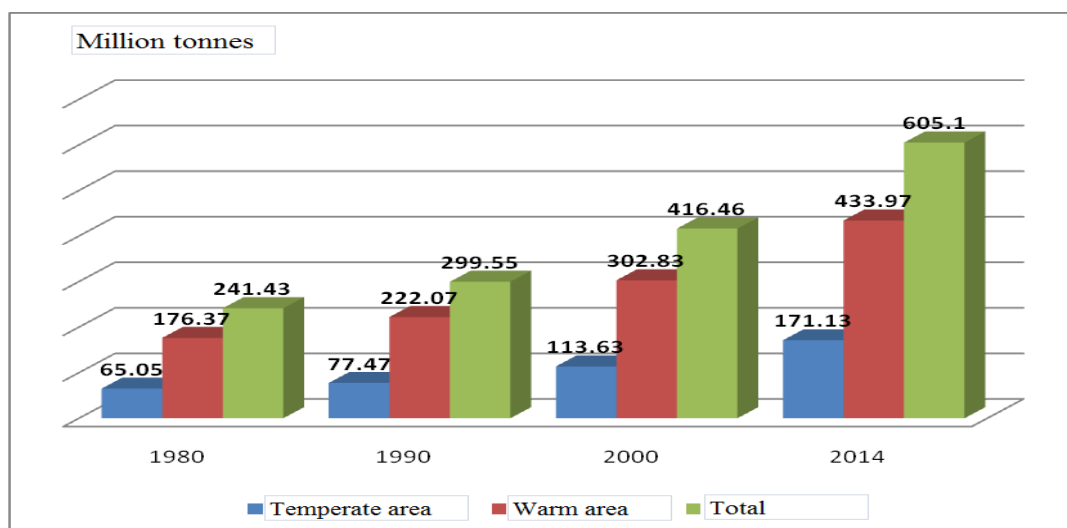


Figure 2. Evolution of world production in the main fruits (1980-2014)

Source: After F.A.O. 2017

From the point of view of global fruit production, the order of fruit tree species is banana tree, orange tree, apple tree and coco nut tree.

Fruit production from the temperate area shares over 28% of the fruit production worldwide, with the highest productions in apple and pear trees.

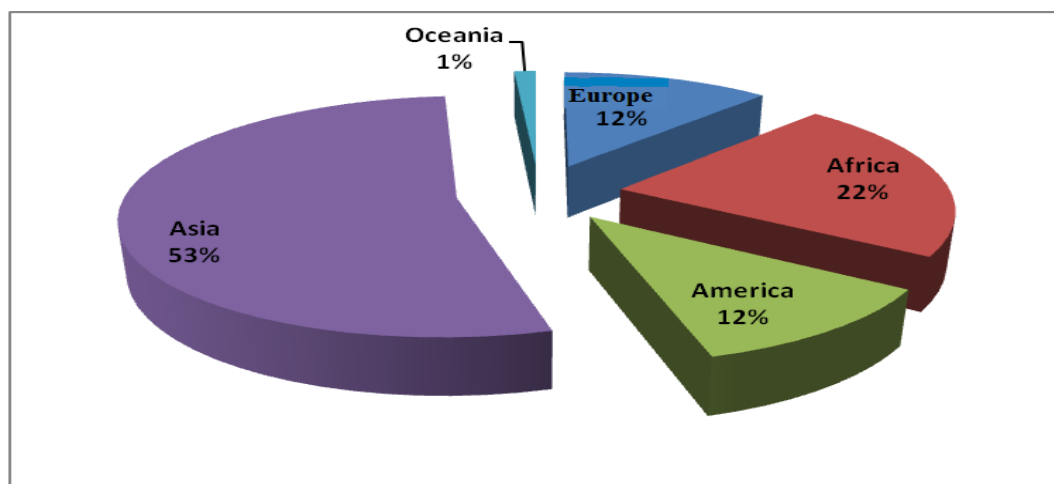


Figure 3. Areas cultivated with fruit trees per continents in 2014 (%)

Source: After F.A.O. 2017

The areas cultivated with the main fruit tree species have a different distribution per continents. In 2014, the largest areas were Asia (53%), followed by Africa (22%) and Europe (12%).

As for the areas cultivated with fruit trees in the temperate area, Europe ranks second after Asia with a share of 21%.

Table 1.

Fruit production per continents in 2014

(t)

SPECIES	CONTINENTS				
	Europe	Africa	America	Asia	Oceania
Temperate area					
Apples	17491575	2557548	10791361	53092671	697120
Plums and sloes	2473880	365489	815803	7609652	17703
Almonds	302309	268896	1576304	389700	160000
Pears	2976540	758522	1869017	20071402	123163
Apricots	958108	495157	99442	1798849	14181
Peaches and nectarines	4511633	868140	2271237	15071214	73630
Walnuts	327374	36822	720158	2375836	2541
Hazelnuts	109937	169	32659	570686	-
Chestnuts	133260	200	79564	1838540	-
Cherries	879145	28523	439236	883802	15121
Sour Cherries	848509	-	144538	369184	-
Quinces	71428	61566	42157	472951	1263
Strawberries	1598077	442271	2064988	3964336	44701
Blueberries	57116	59	464845	600	3000
Raspberry	442846	388	153815	14700	822
Cranberries	10114	180	639054	2914	-
Gooseberries	170454	-	-	120	11
Temperate area total	33362305	5883930	22204178	108527157	1153256
Warm area					
Bananas	393148	20453449	28136085	63665102	1482367
Oranges	6291921	9111638	31808351	24679865	361919
Mandarins, Clementines and Satsumas	3303006	2658947	3450420	20899539	106855
Mangoes, Mangosteens and Guavas	-	5369650	5262541	34546236	46784
Lemons and Limes	1538910	1256244	6464973	6955385	38702
Pineapples	1107	4605914	9538994	11165324	128026
Grapefruit (inc. Pomelos)	85206	853635	1970678	5478529	9108
Olives	8895728	3186151	542458	2711520	65851
Coconuts	716	2065214	5356658	50418956	2670212
Dates	16180	3386900	36652	4160582	-
Papayas	-	1386461	4057315	7211283	15979
Cocoa beans	-	2921757	722849	753611	52045
Tea	385	743270	94764	4717205	5716
Kiwi fruit	780968	32	291901	1959718	414985
Figs	93534	471298	71903	500909	85
Avocado	97313	791870	3506004	565708	67861
Pistachio	11722	4667	233176	607039	1274
Kaki fruit	284950	-	182465	4719894	3315
Warm area total	21794794	59267097	101728187	245716405	5471084
CONTINENTS TOTAL	55157099	65151027	123932365	354243562	6624340

Source: After F.A.O. 2017

In 2014, world fruit production in the temperate area was above 171,000,000 t, of which over 19% in Europe alone.

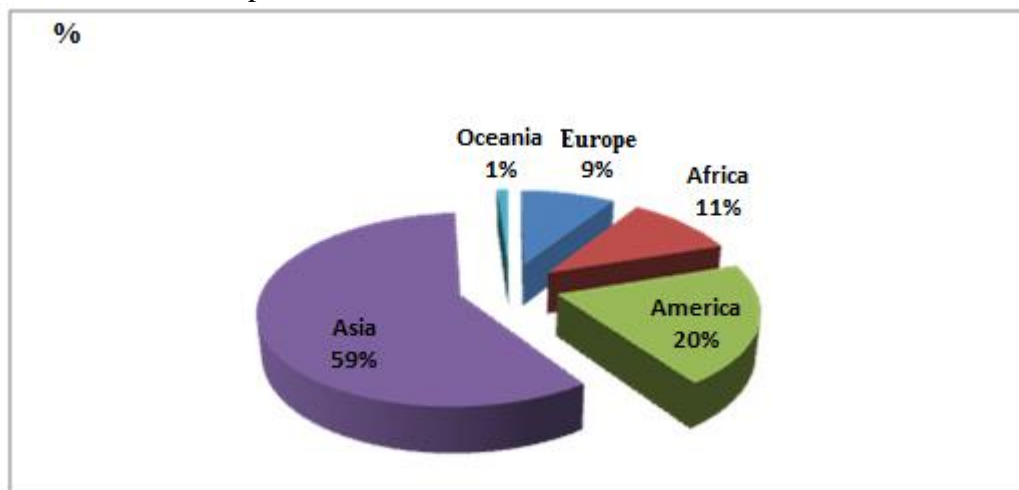


Figure 4. Share of fruit production per continents in 2014

Source: After F.A.O. 2017

CONCLUSIONS

- Worldwide, in the last decades, the area cultivated with fruit tree species increased considerably: in 2014, there were 77 million ha, i.e. 35 million ha more than in 1980.
- Worldwide, the highest fruit production is in Asia, which shares 59%, followed by America with 20% and Africa with 11%. As for the areas cultivated with fruit trees in the temperate area, Europe ranks second after Asia, with a share of 21%.
- In 2014, world fruit production in the temperate area reached 171,000,000 t, of which over 19% produced in Europe.
- In 2014, Europe produced the largest yields of raspberry (442,846 t) and gooseberry (170454 t); it is also the second great producer of apples, pears, plums, peaches, nectarines and apricots after Asia.

REFERENCES

- [1]. **BACIU AURELIAN**, 2005, Pomicultură generală, Craiova, Universitaria
- [2]. **COCIU VASILE**, 1990, Soiurile noi – factor de progres în pomicultură, București, Ceres
- [3]. **NEGRILĂ AUREL**, 1971, Pomicultura. București, Editura didactică și pedagogică
- [4].*** www.fao.org/statistics/en/.
- [5]. ***<http://www.fao.org/docrep/005/y4252e/y4252e06.htm>