Land Markets in the
Three Candidate Countries of the EU

ABSTRACT

The paper provides an overview and a comparison of land markets covering the three candidate countries for European Union membership: Croatia, the Former Yugoslav Republic (FYR) of Macedonia and Turkey. We analyse and compare agricultural land structures and factors driving land markets. The analyses are based on the available cross-section and time-series evidence on agricultural land structures and land productivity (yields). The land productivity measured by production per hectare of agricultural land varies between the three countries. Agricultural land structures are the result of historical evolution in land markets and land-leasing developments with additional different institutional environments and agrarian and land reforms.

Keywords: Land markets, land structures, land productivity, candidate countries, European Union.
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Land Markets in the Three Candidate Countries of the EU
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1. Introduction

European land markets have been determined by the historical evolution forming the initial conditions and additional reform processes during transition from a centrally planned to a market economy in the Central and Eastern European countries (CEECs) and with the process of European Union (EU) enlargement (Csaki & Lerman, 2000; Swinnen, 2002; Macours & Swinnen, 2002; Lerman et al., 2004). Our focus is on three candidate countries for European Union (EU) membership: Croatia, the former Yugoslav Republic (FYR) of Macedonia and Turkey. They are engaged in an ongoing strategy, policy and process for EU enlargement. Reports on the political and economic developments in candidate countries assess their progress in adopting and implementing EU legislation and standards and fulfilling other specific conditions. In addition, the evolution in agricultural structures, the agricultural land market environment with institutional and legal aspects, land market activity and potential imperfections on land and other associated rural factor markets are important for agricultural sector and rural economy competitiveness in the more competitive enlarged EU markets.

The aim of this paper is to provide a qualitative and quantitative analysis of the key issues and main factors driving developments of agricultural land markets in the candidate countries and the impact of national and EU programmes on the functioning of agricultural land markets. We focus on the analysis of key statistical data on land markets in the three candidate countries (Croatia, the FYR of Macedonia and Turkey) to provide some comparisons between them.

This paper is structured as follows: First, in section 2, we present a literature review. Section 3 analyses the main aggregates of land markets and land productivity, and section 4 explains factors shaping land market developments. The final section 5 derives main conclusions and policy implications.

2. Literature Review

During the last two decades, among the most often investigated research issues in agricultural economics have been land reform and land policies, land market and land leasing arrangements, and evolving farm structures focusing on transition Central and Eastern European countries (Csaki & Lerman, 2000; Lerman et al., 2002; Swinnen et al., 2007) and on emerging market economies. Focus of the analyses for the CEECs has been on agriculture in transition with land policies and evolving farm structures (Lerman et al., 2004) and patterns of agrarian transition (Macours & Swinnen, 2002). These patterns of agrarian transition vary between CEECs (Csaki & Lerman, 2000; Macours & Swinnen, 2002; Csaki & Fock, 2001) with differentials in causes of agricultural output decline during transition (Macours & Swinnen, 2000) and with differentials in successes and failures of reform in the

* Štefan Bojnec, Faculty of Management, University of Primorska, Koper, Slovenia (email: stefan.bojnec@fm-kp.si or stefan.bojnec@siol.net). The sections on land ownership, land sales transactions and land rental transactions also include the results obtained from a survey conducted by Kristine Van Herck in June 2011. Contributions by Radmila Jovančević for Croatia, Neda Petroska Angelovska and Marija Ackovska for the FYR of Macedonia and Abdulbaki Bilgic for Turkey are gratefully acknowledged.
transition of agriculture (Rozelle & Swinnen, 2004). Le Mouël (2005) provides an overview of the main issues in the literature on agricultural land markets with conditions for emerging and well-functioning agricultural land markets, including land reform and farm restructuring in transition countries, and agricultural land price formation. Latruffe & Le Mouël (2006a) provide comparative descriptive analysis of agricultural structures, agricultural land market environment with institutional and legal aspects, land market activity and potential imperfections on land and labour factor markets in selected EU countries. Swinnen et al. (2010) find that the effects of EU CAP subsidies are stronger on rental prices than on land prices, but differ across the EU member states.

The previous literature has highlighted structural changes in agriculture and in the farming sector in CEECs (Csáki & Lerman, 2000). The previous literature review also highlighted association between agricultural support, farmland markets and prices. Land price formation and farm land markets have traditionally been in economic attention in farmland areas (King & Sinden, 1994) and in urban gravitation areas. With rapid urbanisation and expansion of big towns and cities, land markets play an important role in certain geographic areas in the transition of land from agricultural to urban use and urban influences on periurban farmland prices (Arnott & Lewis, 1979); Cavailles & Wavresky, 2003). Latruffe & Le Mouël (2006b) present a literature review on theory and empirical findings on the association between agricultural support, farmland markets and prices. Yet, Latruffe & Le Mouël (2007) on the basis of an overview of existing literature argue that agricultural support policy instruments contribute to increase the rental price of farmland depending on the farmland supply price elasticity vis-à-vis other inputs and input substitution. Land prices are seen to be more responsive to government-based returns than to market-based returns.

Land markets in the CEECs have been at the core of investigation of the transition process. Several determinants have determined and shaped land reforms and land structures (Lerman et al., 2004; Swinnen et al., 2005; Swinnen & Vranken, 2009). Our aim is to focus and compare some empirical facts on land markets and land productivity in the three candidate countries: Croatia, the FYR of Macedonia and Turkey. However, so far only a few studies have to some extent analysed different aspects of land markets and land productivity in these three candidate countries. Notable among such studies are, for example, a socio-economic assessment of farm households with policy recommendations during Croatia’s EU accession (Möllers et al., 2009) and the importance of family farm inheritance for rural factor markets in Croatia (Žutinić & Grgić, 2010). Moreover, a few studies have been conducted for agribusiness in the Turkish economy (Demirbaş, 2007; Güneş, 2001), Vural & Fidan (2009) conducted a case study on a hedonic price analysis to determine the marginal return to different parcel land characteristics in Turkey. They found that the agricultural land prices were determined by specific municipal real sale factors. The FYR of Macedonia so far has attracted fewer studies on land markets and land productivity (Swinnen & Van Herck, 2009; Petroska Angelovska et al., 2011). Noev et al. (2003) provide an overview and comparative analysis of land rental market developments in the FYR of Macedonia and Bulgaria. Swinnen and Van Herck (2009) investigated land market issues in the context of the Macedonian agricultural sector and agricultural policy with the pre-accession experience and the implications for the agricultural sector. Similar to other former Yugoslav republics, the agricultural collectivisation in Croatia and in the FYR of Macedonia failed in the second half of the 1940s, while land in large estates above a set maximum land size was nationalised and converted into socially owned land (Bojnec & Swinnen, 1997; Melmed-Sanjak et al., 1998). Due to failed collectivisation of peasants and other smaller household farms, the majority of agricultural land remained in the possession of small family household farms. Similar to other former Yugoslav republics and Poland, this has resulted in a bipolar ownership and operational farm structure with many small household farms and a few large former state (socially-owned) enterprises. The bipolar farm structure remains. For example for the FYR of Macedonia, private household farms own about 80% of the total agricultural land and the remaining 20% are owned by the state and leased by agricultural enterprises, which are the successors of the agrokombinats and socially-owned agricultural enterprises (Swinnen & Van Herck, 2009). In addition to the bipolar farm structure, agricultural land used by private
agricultural households is fragmented into several small plots, which has been determined by
the inheritance system. To increase average farm size and improve conditions for land
consolidation and structural changes in farm structures from less efficient to more efficient
farmers, the lack of a well functioning land market and land leasing market and institutions
are issues of particular importance (Noev et al., 2003). A significant proportion of the state-
owned land in the FYR of Macedonia is not cultivated or is cultivated illegally (Acrotass-
Consortium, 2006; Swinnen & Van Herck, 2009), while in Croatia some land is still under
mines from the war time in the first half of the 1990s.

3. Comparisons of Land Markets and Land Productivity

Our focus is on empirical evidence concerning land markets and land productivity in the
three candidate countries: Croatia, the FYR of Macedonia and Turkey.

3.1 Land markets

Agricultural land endowment is an important factor of agricultural production and a possible
source of natural comparative advantage for agricultural production. Table 1 compares total
area, arable land, permanent crops, cultivated area and per cent of total area cultivated in the
three candidate countries. According to total area, arable land, permanent crops and
cultivated area of these three countries, Turkey is a few times bigger than Croatia, and
Croatia is about twice as large as the FYR of Macedonia. In addition to the land size, the
structure of land is an important potential for the level and structure of agricultural
production. The percentage of total area cultivated has declined in each of the candidate
countries since the beginning of the 1990s: for example, 3.3 percentage points in Turkey, 6.9
percentage points in Croatia and 7.6 percentage points in the FYR of Macedonia. This huge
reduction in the percentage of total area cultivated can be attributed to three reasons: 1) the
transfer of cultivated land from agricultural to non-agricultural uses; 2) fallow land due to
economic reasons and 3) uncultivated land due to non-economic reasons. The latter is largely
relevant only for Croatia, where some land is still under the landmines from the war in the
first half of the 1990s. Finally, it is clearly visible from this evidence that Turkey not only has
the greatest percentage of total area cultivated, but it seems to have also developed the best
management practices with the existing cultivated land in use for agricultural production as
it has the highest percentage of total area cultivated and the least important decline in this
percentage.

Table 1. Comparison of land areas (million of hectares)

<table>
<thead>
<tr>
<th></th>
<th>Croatia</th>
<th>FYR of Macedonia</th>
<th>Turkey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total area</td>
<td>5.65 5.66 5.65 5.66</td>
<td>2.57 2.57 2.57 2.57</td>
<td>78.36 78.36 78.36 78.36</td>
</tr>
<tr>
<td>Arable land</td>
<td>1.21 0.98 0.86 0.85</td>
<td>0.61 0.60 0.50 0.43</td>
<td>24.51 24.30 23.99 21.98</td>
</tr>
<tr>
<td>Permanent crops</td>
<td>0.11 0.13 0.07 0.08</td>
<td>0.06 0.05 0.04 0.04</td>
<td>3.01 2.57 2.59 2.91</td>
</tr>
<tr>
<td>Cultivated area</td>
<td>1.33 1.11 0.93 0.93</td>
<td>0.66 0.65 0.54 0.47</td>
<td>27.53 28.56 26.58 24.89</td>
</tr>
<tr>
<td>% of total area cultivated</td>
<td>23.4 19.6 16.4 16.5</td>
<td>25.8 25.2 21.1 18.2</td>
<td>35.1 34.3 33.9 31.8</td>
</tr>
</tbody>
</table>


According to (FAOSTAT, 2011), between 2003 and 2008, the fallow land in Croatia declined
from 25,000 to 13,000 hectares, which represents a bit more than 1% of agricultural area.
While data on the fallow land for the FYR of Macedonia are not reported, for Turkey the
fallow land declined during the same period from a bit less than 5 million hectares to 4.3
million hectares, which represents 1.1% of agricultural area.
In 2007, the percentage of agricultural area irrigated in the three candidate countries was as follows: 0.7% in Croatia, 2.7% in the FYR of Macedonia and 13.2% in Turkey. This might be also associated with structures of agricultural production with a greater share of cereals in Croatia and a greater importance of higher value-added fruit and vegetables on irrigated agricultural land in Turkey.

### 3.2 Sectoral structure of agricultural production

Gross agricultural production in Turkey is more than 20 times bigger than in Croatia, while in Croatia it is almost twice as high as in the FYR of Macedonia (Table 2). In each of the three candidate countries, the share of crop production is at least twice as high as that of livestock production. The share of livestock production is the highest in Croatia, while the share of crop production is the highest in the FYR of Macedonia, which experienced the lowest share of cereals in crop production. In crop production in the FYR of Macedonia as well as in Turkey, an important share of production is also represented by other crops, particularly vegetables and long-term plantings of fruit and vineyards. Due to large country size with different climatic conditions, Turkey is also known for specific crops such as cotton, oranges and other citrus. Therefore, sectoral structures of agricultural production vary between the candidate countries and in the case of Turkey there are also significant differences in the structures of agricultural production between regions and even inside some regions.

### Table 2. Structure of agricultural production

<table>
<thead>
<tr>
<th>Year</th>
<th>Croatia</th>
<th>FYR of Macedonia</th>
<th>Turkey</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gross production ($ billion)</td>
<td>% of crops</td>
<td>% of livestock</td>
</tr>
<tr>
<td>1992</td>
<td>1.17</td>
<td>63.5</td>
<td>36.5</td>
</tr>
<tr>
<td>1996</td>
<td>1.21</td>
<td>71.6</td>
<td>28.4</td>
</tr>
<tr>
<td>2001</td>
<td>1.30</td>
<td>73.5</td>
<td>26.5</td>
</tr>
<tr>
<td>2005</td>
<td>1.17</td>
<td>64.9</td>
<td>35.1</td>
</tr>
<tr>
<td>2009</td>
<td>1.32</td>
<td>66.6</td>
<td>33.4</td>
</tr>
</tbody>
</table>

*Source: FAOSTAT (2011).*

### 3.3 Agricultural factor endowments

Due to data availability for western and EU-27 countries, farm size in these countries is often investigated by land farm structures and average size of agricultural land per farm (Bojnec & Swinnen, 1997; Latruffe & Le Mouël, 2006a). Therefore, farm size has been widely studied for western, EU countries (Bojnec & Swinnen, 1997; Latruffe & Le Mouël, 2006a). Comparable statistics on farm structure have been developed and are available for the EU-27 countries (Eurostat, 2011), while so far there is no comparable evidence for the candidate countries.

Agricultural factor endowment is compared between the three candidate countries by three variables: arable land in hectare (ha) per person, fertilizer consumption in kg per ha of arable land, and by tractors per 100 km² of arable land. As can be seen from Table 3, Turkey is the richest candidate country by arable land in ha per person. Fertilizer consumption in kg per ha of arable land is the highest in Croatia, which experiences the lowest arable land in ha per person. Croatia experiences also the highest mechanisation factor endowment, which is measured by tractors per 100 km² of arable land, but this evidence at least might be less accurate. It seems less likely that tractors per 100 km² of arable land in Croatia have increased so rapidly from 37.7 in 2002 to 2228.7 in 2007.
### Table 3. Agricultural factor endowments in 2007

<table>
<thead>
<tr>
<th>Factor Endowment</th>
<th>Croatia</th>
<th>FYR of Macedonia</th>
<th>Turkey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arable land in ha per person</td>
<td>0.19</td>
<td>0.21</td>
<td>0.30</td>
</tr>
<tr>
<td>Fertilizer consumption in kg per ha of arable land</td>
<td>154.0</td>
<td>66.1</td>
<td>100.0</td>
</tr>
<tr>
<td>Tractors per 100 km² of arable land</td>
<td>2228.7*</td>
<td>1243.8</td>
<td>473.9</td>
</tr>
</tbody>
</table>

*This figure increased dramatically from 37.7 in 2002 to 2228.7 in 2007.

**Source**: World Bank (2011).

### 3.4 Land productivity

Land productivity is investigated and compared between the three candidate countries on the basis of yields per hectare for wheat and maize, as the main crops in the candidate countries. Turkey is a substantial wheat producer (Table 4). Its production is more than 25 times larger than that of Croatia, whose production is more than twice that of the FYR of Macedonia. Wheat yields in Croatia are slightly lower than in the enlarged EU-27, but more than twice that of Turkey and slightly less than twice that of the FYR of Macedonia.

### Table 4. Wheat production and yields

<table>
<thead>
<tr>
<th>Year</th>
<th>Croatia Production (million tonnes)</th>
<th>Croatia Yields (tonnes per ha)</th>
<th>FYR of Macedonia Production (million tonnes)</th>
<th>FYR of Macedonia Yields (tonnes per ha)</th>
<th>Turkey Production (million tonnes)</th>
<th>Turkey Yields (tonnes per ha)</th>
<th>EU Production (million tonnes)</th>
<th>EU Yields (tonnes per ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1992</td>
<td>0.66</td>
<td>39.0</td>
<td>0.30</td>
<td>26.8</td>
<td>19.3</td>
<td>20.4</td>
<td>106.7</td>
<td>45.1</td>
</tr>
<tr>
<td>1996</td>
<td>0.74</td>
<td>36.9</td>
<td>0.27</td>
<td>22.9</td>
<td>18.5</td>
<td>19.8</td>
<td>124.3</td>
<td>49.4</td>
</tr>
<tr>
<td>2001</td>
<td>0.97</td>
<td>40.2</td>
<td>0.25</td>
<td>21.3</td>
<td>19.0</td>
<td>20.3</td>
<td>126.6</td>
<td>47.9</td>
</tr>
<tr>
<td>2005</td>
<td>0.60</td>
<td>41.1</td>
<td>0.33</td>
<td>30.8</td>
<td>21.5</td>
<td>23.2</td>
<td>135.4</td>
<td>51.2</td>
</tr>
<tr>
<td>2009</td>
<td>0.94</td>
<td>51.9</td>
<td>0.27</td>
<td>30.8</td>
<td>20.6</td>
<td>25.7</td>
<td>138.5</td>
<td>54.1</td>
</tr>
</tbody>
</table>

**Source**: FAOSTAT (2011).

Maize production in Turkey is around twice as high as in Croatia, while maize production in the FYR of Macedonia is few times smaller than in Croatia (Table 5). Unlike the experience in the FYR of Macedonia, maize yields in Turkey and particularly in Croatia have increased rapidly and are at the level or even above the levels for the enlarged EU-27.

### Table 5. Maize production and yields

<table>
<thead>
<tr>
<th>Year</th>
<th>Croatia Production (million tonnes)</th>
<th>Croatia Yields (tonnes per ha)</th>
<th>FYR of Macedonia Production (million tonnes)</th>
<th>FYR of Macedonia Yields (tonnes per ha)</th>
<th>Turkey Production (million tonnes)</th>
<th>Turkey Yields (tonnes per ha)</th>
<th>EU Production (million tonnes)</th>
<th>EU Yields (tonnes per ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1992</td>
<td>1.54</td>
<td>41.5</td>
<td>0.13</td>
<td>29.8</td>
<td>2.23</td>
<td>42.4</td>
<td>44.5</td>
<td>48.0</td>
</tr>
<tr>
<td>1996</td>
<td>1.89</td>
<td>52.2</td>
<td>0.14</td>
<td>33.9</td>
<td>2.00</td>
<td>36.4</td>
<td>53.8</td>
<td>58.0</td>
</tr>
<tr>
<td>2001</td>
<td>2.21</td>
<td>54.5</td>
<td>0.12</td>
<td>34.5</td>
<td>2.20</td>
<td>40.0</td>
<td>61.6</td>
<td>64.1</td>
</tr>
<tr>
<td>2005</td>
<td>2.21</td>
<td>69.2</td>
<td>0.15</td>
<td>44.9</td>
<td>4.20</td>
<td>70.0</td>
<td>63.2</td>
<td>70.3</td>
</tr>
<tr>
<td>2009</td>
<td>2.18</td>
<td>73.5</td>
<td>0.15</td>
<td>47.5</td>
<td>4.25</td>
<td>71.9</td>
<td>57.8</td>
<td>69.2</td>
</tr>
</tbody>
</table>

**Source**: FAOSTAT (2011).
4. Factors Shaping Land Markets Developments

4.1 Historical evolution

Historical factors have played a crucial role in the shaping of land market developments in each of the three analysed candidate countries. The Ottoman and Islamic rules were important factors shaping land markets for the territory of present Turkey (Sesli, 2010) and to a lesser extent for the territory of the FYR of Macedonia, but not for Croatia, which has been under the influence of the Austro-Hungarian, particularly Hungarian, empires. Later reforms conducted in modern Turkey have been important for land market developments there. On the other hand, since the First World War, land market developments on the territory of Croatia and the FYR of Macedonia shared some similar developments of land reforms, agricultural and farm restructuring as some other parts of the first Yugoslavia (Kingdom of Serbs, Croats and Slovenians) and the second, communist, Yugoslavia (Bojnec & Swinnen, 1997). Since the collapse of the former Yugoslavia in 1991, Croatia and the FYR of Macedonia have conducted land reforms, which have not resulted in substantial changes in agricultural structures and farm restructuring, as the majority of land has remained in private family farm ownership and operation.

4.2 Land reforms and land markets settings

During the last two decades of institutional developments and land reforms in the three candidate countries, there have been modest structural changes in land markets. In Croatia and the FYR of Macedonia, land ownership and land use are bimodal, consisting from several small-scale farms and few large scale enterprises (Swinnen & Van Herck, 2009; Petroska Angelovska et al., 2011). In Turkey, land reforms, land markets developments and farm restructuring are the results of long-term institutional development ranging from the Ottoman rules and more recent contemporary institutional developments. Yet, due to its large size and different historical-institutional developments, significant regional differences are recorded for land markets, agricultural structures and farm restructuring in Turkey. Unlikely for Croatia and the FYR of Macedonia, farm groups consisting of two or more households (SIS, 2001) are also important in the legal status of agricultural holdings in Turkey.

In addition to individual family-farm-size fragmentation, the land of small-scale farms is often further fragmented into several small plots due to inheritance division of land of a family farm among several children. Fragmented farm structures and small plots are one of the major obstacles to the modernisation of agricultural production. For example, in the FYR of Macedonia, the average size of family farms is around 1.7 ha with mixed production structures (Swinnen & Van Herck, 2009), and around 80% of total cultivated land is owned or leased by around 180,000 small-scale private family farms most often of an average size between 2.5 and 2.8 ha (Petroska Angelovska et al., 2011). Family household subsistence farming in the FYR of Macedonia seems to be more important than in Turkey or in Croatia, which has important implications for small-scale agricultural farm structures and the need for farm restructuring with the creation of opportunities for off-farm employment and incomes (Janeska & Bojnec, 2011).

Regarding institutional and possible legal constraints on agricultural land ownership, there is no restriction on the ownership of agricultural land by a domestic natural person in the three candidate countries. Yet, approval of ownership by a responsible local government institution is required. Certain restrictions on land ownership are imposed on foreign natural persons or legal entities.

In the FYR of Macedonia, restrictions on the ownership of agricultural land are imposed on foreign natural persons and legal entities. Foreign natural persons can own agricultural land if they inherited property with reciprocity, if they have already lived for several years in the FYR of Macedonia or if they can prove they are a farming company. In other cases, they can rent agricultural land with the approval of the previous central government. However, the
limitations do not hold for foreign legal companies. They can own or rent agricultural land independent of ownership structure.

In Croatia, foreign natural or legal entities face more restrictions regarding the ownership of agricultural land than do domestic natural persons during the country’s pre-accession period of adjustment to EU membership and possibly up to seven years after Croatia’s accession to the EU.

In Turkey, domestic legal entities and foreign natural persons or legal entities face different restrictions than domestic natural persons regarding the ownership of agricultural land. Domestic legal entities, foreign natural persons and foreign legal entities can own only apartments or firms, but they are not allowed to own an agricultural land.

In the FYR of Macedonia, agricultural land that is owned or rented, but cultivated, is excluded from an annual taxation, whereas in Croatia and Turkey, the owner of agricultural land is obliged to pay land taxes on a yearly basis according to the quality of land.

4.3 Land sales transactions and land sale prices

Land sales transactions are a traditional way in which agricultural land markets function. Vranken et al. (2011) provides an overview of sales market regulations of agricultural land for EU countries and two candidate countries, i.e. the FYR of Macedonia and Turkey. In land sales transactions in the three candidate countries, there is no a minimum or a maximum sales price. In the FYR of Macedonia, state-owned land cannot be sold – it can only be rented.

Agricultural land sale prices vary between the candidate countries and within the countries. In 2011, the price of agricultural land in Croatia was between €5,000 and €7,000 per ha.

In the FYR of Macedonia, the sales price of agricultural land was around €2,500 per ha, while arable land sales price was higher between €10,000 and €15,000 per ha. The price of agricultural land varies by region and by location within regions and by the quality of land. The price interval can be from €2,000 up to €40,000 per ha. In locations where agricultural land can be transformed into urban land or land for construction, the price can be up to €100,000 per ha. The average sales price in the FYR of Macedonia varies by land quality category: between €2,000 to €15,000 per ha in mountain areas, €15,000 to €25,000 per ha for land category classes between 5-8, and €25,000 to €40,000 per ha for land category class of 4.

In Turkey, the sales price of agricultural land varies between 50,000 and 80,000 Turkish Liras (TL) per ha. There are considerable regional differences in the sales price, depending on several internal factors and particularly between regions. One important factor of them is the fertility of land or the land quality. The most fertile land can cost up to 150,000 TL per ha.

With land sales transactions, these are associated costs for the transfer of land, such as notary and cadastral costs and a registration fee regulated by law. In the FYR of Macedonia, the buyer needs to pay a registration tax amounting to 2-4% of the land sales price.

In general, there is no restriction related to the acquisition of agricultural land by a domestic natural person in the three candidate countries. In Croatia the sale of agricultural land needs to be approved by the government agency and the tenant has pre-emption rights. In the FYR of Macedonia, co-owners have a priority right and neighbours have priority purchase right. In Turkey there are restrictions regarding the subdivision and sale of a plot below a certain minimum size and the sale of agricultural land needs to be approved by the government. The tenant in Turkey has pre-emption rights and co-owners have priority rights. There are also restrictions for land sale transactions in border areas and in specific protected areas.

Some additional restrictions regarding the acquisition of agricultural land apply to foreign legal entities in Croatia, according to its Agreement for accession to the EU. In the FYR of Macedonia, foreign natural persons can own agricultural land if it is inherited with reciprocity, if they have already lived for a certain period in the FYR of Macedonia or if they
can prove they are a farming company. Foreign legal entities can own agricultural land independent of ownership structure (e.g. majority of shareholders from the FYR of Macedonia). In Turkey, domestic legal entities, foreign natural persons and foreign legal entities can only legally own apartment or firms, but they are not allowed to own agricultural land.

4.4 Land rental transactions

Land rental transactions are important conditions for emerging and well-functioning agricultural land markets to increase operational farm size (Swinnen et al., 2006). Except for state-owned land in the FYR of Macedonia, land rental transactions in the three candidate countries are not limited by the government setting of minimum or maximum rental prices.

In Croatia as well as in other two candidate countries, there are regional differences in rental price. In Croatia, the minimum tenancy duration is 5 years and the maximum duration is 20 years. The tenancy contract is inheritable and almost all the tenancy contracts are in written form. All rental agreements are required to be registered in the cadastral and in the land register. Legal contract enforcement depends widely according to the contract.

In the FYR of Macedonia, the law regulates a minimum rental price for state-owned agricultural land and a maximum length of time tenancy duration. The minimum rental price for state-owned agricultural land varies by land quality: €25 per ha for cadastral classes from 1 to 4, €15 per ha for cadastral classes from 5 to 8, €15 for the mountain areas for cadastral classes from 1 to 4, and €5 per ha for the mountain areas for cadastral classes from 5 to 8. The average rental price is around €15 per ha of agricultural land and €25 per ha of arable land. Regional differences in rental price depend on demands, which is higher in more attractive regions (e.g. Strumica & Tikves), but lower in less attractive regions with uncultivated land, where the land is almost without rental value. The average rental price depends on the land quality: €5-15 per ha in the mountain areas, €15 per ha for land category from 5 to 8 class, and €25 per ha for land category of the class 4. Oral rental agreements were traditional, but recently there has been a switch to written contracts. Rental agreements are registerable optionally in the land register. The tenancy contract is inheritable. All tenancy contracts for renting state-owned agricultural land take a written form. During the years 2006-10, the responsible ministry signed around 3,000 contracts for renting around 123,000 ha of land. However, legal contract enforcement is not clearly defined and managed if one of the parties breaches the terms.

In Turkey, rental prices are not regulated and land renting is often orally agreed between owner and tenants without defining monetary rental prices. The owner and tenant usually agree on how to share the products: often the owner provides the land and other costs are covered by tenant and then around 1/3 of the product is taken by the owner and 2/3 of the product is taken by the tenant. There are regional differences depending on how tenant and owner reach agreement on the type of the rent to be paid. The tenancy duration is not restricted. The tenant does not have pre-emptive rights when the land is sold by the owner and the tenancy contract is not inheritable. An oral rental agreement is possible due to a high level of trust between owner and tenant, which is often between relatives, neighbours or similarly trusted persons. Rental agreements are not registered in the cadastral nor in the land register. The owner and tenant may make an agreement at notary offices. If one of the parties breaches the agreement terms, even if the agreement is oral, the parties apply to the court to solve the problem.

4.5 Agricultural support, farmland markets and land prices

Agricultural support measures to agriculture and the rural economy from domestic and international (particularly EU) sources vary between the three candidate countries. The domestic government supports to agriculture and the rural economy are also correlated with the level of economic level, as measured by GDP per capita: it is higher for Croatia than for the FYR of Macedonia or Turkey. So far there is no any study on the capitalisation of
agricultural and rural development support measures on farmland markets and land prices in the three candidate countries. Due to relatively lower domestic government support, for example in the FYR of Macedonia, while international donations and support were less often given for land markets, it is also less likely to significantly influence farmland markets transaction and land prices. As each of these three countries has experienced significant outflow of labour to Western Europe since the mid-1960s, particularly from rural areas, remittances and other financial flows from abroad to some rural areas might be even more important for rural well-being and survival than domestic and international government supports.

5. Conclusions and Policy Implications

During the last 20 years of transition from a centrally planned to a market economy in the CEECs, accompanied by the simultaneous East-West European integration process, European land markets have been changed substantially. Structural changes in the farming sectors, land reform and EU accession have had socio-economic implications for farm households and for rural factor markets.

Our focus has been on the three EU candidate countries: Croatia, FYR of Macedonia and Turkey. We analyse by each country and by comparative analysis: land distributions and developments and factors driving land market developments. Agricultural land structures are the results of historical evolution in land market, land sale and land leasing developments within different institutional environments, agrarian and land reforms.

The land markets are quite different in the three candidate countries for EU membership. Turkey is larger than Croatia and particularly larger than the FYR of Macedonia, in terms of the size of the agricultural sector (land area). In addition, there are also differentials in land market institutional settings and their evolutions, historical agrarian and land reforms, agricultural and farm structures. Croatia and the FYR of Macedonia share more similarities in comparison to Turkey. Similar to Slovenia, Croatia and the FYR of Macedonia have largely experienced privately-owned and operated agriculture also during the former Yugoslav system (Bojnec & Swinnen, 1997). In both Croatia and the FYR of Macedonia, agricultural land within agricultural service cooperatives has been limited. The former state land has been transformed in state management and largely continued to be operated by the privatised agricultural enterprises. For example, similar to the case of Slovenia, the FYR of Macedonia has established a state fund for the management of former state land, and this fund has become an important player in land-leasing arrangements.

In addition to own-operated land and land market transactions, land-leasing has become an important land operation. As in western European countries, land-leasing arrangements are expected to increase further, thus increasing the considerable differentials between land ownership and land operation farm structures. This process is likely to be the main driving force in agricultural and farm restructuring towards an increasing average operational land size of farms.

On the other hand, Turkey has experienced an evolution in land market and land-leasing arrangements, which are linked both to historical (Islamic) traditions and land-market transactions, which are typical for developed market economies. Land-leasing arrangements in Turkey are largely based on trust and still-prevailing oral sharecropping arrangements between land owners and tenants rather than on a contract arrangement and land-lease price, which is more typical for Croatia and, except for state land, to a lesser extent for the FYR of Macedonia. In Turkey due to the country’s large size and different historical-cultural traditions, there are also significant differentials in land market and land-leasing developments within the country by regions (Sesli, 2010).

Furthermore, land markets in the three candidate countries have experienced the convergence of laws toward EU norms. In this regard, Croatia is adjusting its rules and implementation to be soon ready for the EU membership.
References


Melmed-Sanjak, J., P. Bloch and R. Hanson (1998), Project for the Analysis of Land Tenure and Agriculture Productivity in the Former Yugoslav Republic of Macedonia, Land Tenure Center, University of Wisconsin, Madison, Wisconsin.
The Factor Markets project in a nutshell

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<th>Title</th>
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<td>Funding scheme</td>
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<td>Coordinator</td>
<td>CEPS, Prof. Johan F.M. Swinnen</td>
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<td>Duration</td>
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<td>Short description</td>
<td>Well functioning factor markets are a crucial condition for the competitiveness and growth of agriculture and for rural development. At the same time, the functioning of the factor markets themselves are influenced by changes in agriculture and the rural economy, and in EU policies. Member state regulations and institutions affecting land, labour, and capital markets may cause important heterogeneity in the factor markets, which may have important effects on the functioning of the factor markets and on the interactions between factor markets and EU policies. The general objective of the FACTOR MARKETS project is to analyse the functioning of factor markets for agriculture in the EU-27, including the Candidate Countries. The FACTOR MARKETS project will compare the different markets, their institutional framework and their impact on agricultural development and structural change, as well as their impact on rural economies, for the Member States, Candidate Countries and the EU as a whole. The FACTOR MARKETS project will focus on capital, labour and land markets. The results of this study will contribute to a better understanding of the fundamental economic factors affecting EU agriculture, thus allowing better targeting of policies to improve the competitiveness of the sector.</td>
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<td>EC Scientific officer</td>
<td>Dr. Hans-Jörg Lutzeyer</td>
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