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The Effects Of The Distribution Of Agricultural Direct Payments

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ABSTRACT

The Common Agricultural Policy (the CAP) is the most important common policy of the European Union, for which reason it traditionally monopolizes a large part of the European Union budget. Without doubt, the aids that farms receive from this policy are the pillar on which it sustains the battered agricultural sectors. Among CAP aid, direct payments are particularly important, in 2008 accounting for about 37% of the total EU budget.

The main objective of this paper is to analyse the effects that the distribution of the CAP direct payments have on the agrarian economy. Specifically, we have analysed the equality level in distribution of CAP direct aid in the countries of the European Union using a concentration index. In this way, we have examined the fairness of distribution of CAP direct aid in the agricultural sector.

Keywords: Common Agricultural Policy, Concentration Index, Distribution

1. INTRODUCTION

he Common Agricultural Policy (CAP) is the European Union's most important common policy, which is why it traditionally takes up a large part of the European Union budget. It is clear that European Union funds through CAP aid have been one of the basic pillars in guaranteeing sustainability and survival of the countryside (Alfranca, 2006).

Inequality in the distribution of aid or, more generally, the contribution of the CAP to the distribution of income, have been considered by the European Commission (1991 and 2002) after successive reforms of the CAP. Unfair aid distribution and its lack of transparency (Montero et al., 2009) have generated public controversy. However, there have been few empirical studies which have characterized and quantified the effects of the agricultural aid programmes on the distribution of agricultural income, although they have all been carried out from the point of view of concentration analysis using the Gini coefficient. These studies can be divided into two large groups. The first group examines the effect CAP aid has had on various aspects of agriculture, especially the distribution of income (Keeney, 2000; Frawley and Keeney, 2000; Rocchi et al., 2005; Allanson, 2006, 2007 and 2008; Allanson and Rocchi, 2008), while the second group includes studies of the distribution of aid in different geographical areas. This study falls within the second type of study, analysing the distribution of CAP aid in the different countries of the European Union (EU).

To this end, Schmid et al. (2006) analysed the distribution of direct CAP payments in the different countries of the EU-15. The results showed the existence of significant differences in the distribution of aid among the different countries with the existence of a bias towards the receipt of large amounts of aid by large landowners in some member state. In Sinabell et al. (2008 and 2009) the study was broadened to include data for 2000 and 2006, but with very similar conclusions. Comparison of the 14 members of the European Union in 2000 and 2006 showed the existence of very heterogeneous behaviour between the different countries and analysis of the development of concentration showed that there was no uniform pattern of change.

The concentration of aid has been a thorny subject for EU members, because most have progressive tax systems aimed at greater distribution of wealth, so any increase in the concentration of income is subject to examination by the EU's active policies. It must be stressed that, although the image of farmers in Europe is not generally good, because of the high prices of farm produce, the prices actually received by farmers (farm gate prices) have barely risen, in many cases it being intermediaries who are speculating with staple foods (Alfaro et al., 2011).

So this study tries to analyse the level of concentration existing in agricultural sector aid in EU countries in the period 2002-2008, using the Gini concentration index (Gini, 1912; 1921), studying variations in the aid received and its development.

2. METHODS

In examining farm income distributions, many studies have used the Gini coefficient. As already pointed out, this coefficient is widely followed in the economic literature investigating distributional issues. In the field of agricultural economics, it has been used to study the distribution of subsidies, income, wealth, operated land or land ownership across farms. In this paper we have use this index to analyse the distribution of the total direct aids in15 countries of the European Union. We have considered only 15 countries because in this form we can have more information about the distribution of direct aid in order to make comparison in the evolution of this distribution.

2.1 Distribution of the aid directs in the EU15

The Europe Commission receives from the Member States, on an annual basis, data on the payments made to the beneficiaries of the European Agricultural Guarantee Fund (EAGF). Using this information we analyse the distribution of the all direct payments in the 15 members of the European Union. Thus, the table 1 show the concentration index for these countries.

Table 1. Concentration index in the distribution of direct aid

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Gini Index	2002	2003	2004	2005	2006	2007	2008
Belgium	0,325	0,343	0,332	0,325	0,340	0,357	0,411
Denmark	0,299	0,311	0,323	0,340	0,415	0,450	0,456
Germany	0,418	0,373	0,402	0,396	0,417	0,424	0,427
Greece	0,206	0,183	0,198	0,225	0,283	0,337	0,384
Spain	0,364	0,374	0,368	0,372	0,403	0,412	0,417
France	0,319	0,310	0,316	0,317	0,325	0,328	0,332
Ireland	0,308	0,306	0,318	0,294	0,301	0,299	0,293
Italy	0,301	0,295	0,311	0,342	0,399	0,412	0,412
Luxemburgo	0,439	0,465	0,444	0,473	0,380	0,390	0,384
Netherlands	0,277	0,296	0,270	0,235	0,443	0,349	0,352
Austria	0,230	0,225	0,262	0,257	0,243	0,249	0,253
Portugal	0,330	0,379	0,385	0,389	0,453	0,478	0,477
Finland	0,262	0,267	0,284	0,285	0,298	0,306	0,311
Sweden	0,366	0,317	0,324	0,331	0,368	0,383	0,385
United Kingdom	0,502	0,448	0,455	0,425	0,481	0,481	0,452

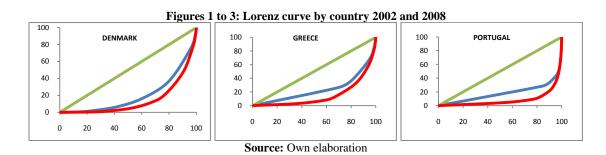
Source: Own elaboration

The results show that an increase in concentration occurred in the period 2002-2008 in every country except Ireland, the United Kingdom and Luxembourg. This increase shows the existence of a less equitable distribution of aid among its beneficiaries. So the different measures adopted by the European Union to make the distribution of aid fairer have contributed towards farm growth and therefore towards the concentration of aid in the hands of a few.

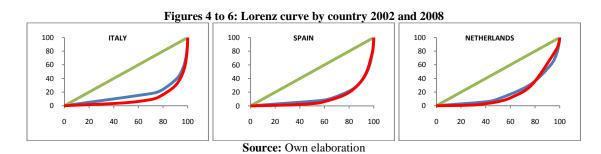
The country with the fairest distribution of aid in 2008 was Austria, with a concentration index of 0.253. This is not a new situation, as Austria has been in the top positions in terms of fairness of distribution of aid since 2002. In contrast, the greatest concentration of distribution is seen in Portugal, with a concentration index of 0.477 in 2008. It is notable that seven of the fifteen countries studied have a concentration index greater than 0.4, which shows the existence of a certain degree of concentration in distribution of aid. These results clearly show that in 2008 there were still many countries in which a few people received large amounts of aid.

2.2 An analyses of the evolution in the CAP distribution

For more thorough analysis, we used the Lorenz curve (Lorenz, 1905) on the countries where the greatest increase or regression in concentration levels occurred, these being Denmark, Greece, Portugal, Italy, Spain, the Netherlands, Belgium, Luxembourg and the United Kingdom.

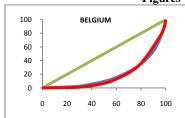


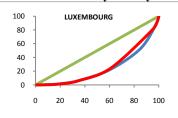
Figures 1 to 3 represent the countries where the greatest increase in CAP aid concentration occurred in the period 2002 to 2008. It can be observed on the graph how the area below the bisecting line of the angle increases, leading to greater levels of concentration. These figures are especially relevant in Greece, which had the lowest concentration level in the EU-15 at the start of the period (2002), but ended 2008 exceeding six countries in concentration levels. Another notable case is Portugal, with the greatest rate of concentration of agricultural aid in the EU-15 in 2008, displacing from this position the United Kingdom, which had the highest concentration level in the period 2002-2007.

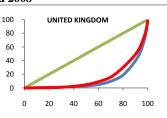


Italy, Spain and Holland (Figures 4 to 6) show increases in concentration, but less important than the foregoing. It is significant that the three countries have a large agricultural sector, which suggests that in spite of the sector's low profitability; numerous farms remain and are disappearing more slowly than in other countries.

Figures 7 to 9: Lorenz curve by country 2002 and 2008







Source: Own elaboration

There is a third group of countries made up of Belgium (which, although its concentration level has not decreased, has an agricultural sector of less importance in the overall economy of the country), Luxembourg and the United Kingdom, which have reduced their concentration levels. It is noteworthy that in a context of stable, continuous increase, certain countries have reduced their concentration levels (in addition to those mentioned, the interannual rates of other countries such as Germany or France have barely increased). This fact shows how countries which have been receiving this kind of aid for a longer time are now tending to redistribute their aid, also because of the deterioration of other production sectors with consequent partial reorientation towards agriculture.

3. CONCLUSIONS

The concentration of agricultural aid is linked to two primordial factors, land ownership and the legislation regulating aid collection. Assuming that the first of these factors is determined beforehand, we can only establish different scenarios of future policies conditioning concentration levels. So the new community legislation on single payment conditions concentration levels, because the existing grants (mostly uncoupled) do not allow sector regeneration.

The loss of importance of the agricultural sector in the EU countries in general, where the economy has been tertiarized, together with entry barriers for young farmers who do not own land and lack incentives to rent, condition and encourage increases in concentration: there are increasingly fewer active receivers of aid and new additions to the sector are not encouraged. It should be remembered that this is a sector with high levels of specialization and which is increasingly less labour-intensive, because of the huge increase in mechanization of the sector.

The results of our concentration analyses reveal the sector's concentration increases (except for two countries). For this reason, the present aid system and its implications for rural areas need to be rethought. In view of these results and bearing in mind the continuous budget cuts of the Common Agricultural Policy, it is increasingly difficult for it to meet one of the primordial objectives of that policy, "to maintain the rural population": farmers cannot maintain their subsistence incomes and so have to abandon the countryside in search of other job opportunities.

The constantly worsening image of farmers held by the citizens of the European Union conditions the overall budgets. This deterioration has been made more acute by external problems: speculation with raw materials, competition from other countries and, finally, high prices of products at their destination (which can be 10 times the source price), practices blamed almost totally on the farmers of the EU members, who are not responsible for them.

There is no doubt that the main budget policy of the European Union should take all these factors into account on its new temporal horizon. For this reason, it should take into account one of the sector's main indicators, the levels of aid concentration in recent years.

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