

AGRI-FOOD TRADE ANALYSIS: COMPARISON OF SLOVENIA WITH THE NINE NEW MEMBER STATES

ZNAČILNOSTI TRGOVINE S KMETIJSKIMI IN ŽIVILSKIMI PROIZVODI: PRIMERJAVA SLOVENIJE Z OSTALIMI NOVIMI ČLANICAMI EVROPSKE UNIJE

Darja MAJKOVIČ^{1*}, Jernej TURK² and Emmanuelle CHEVASSUS – LOZZA³

^{1*}University of Maribor, Faculty of Agriculture, Vrbanska 30, 2000 Maribor, Slovenia.

Phone : 00386 2 25 05 831, Fax : 00386 2 229 60 71, E-mail : darja.majkovic@uni-mb.si

² University of Maribor, Faculty of Agriculture, Vrbanska 30, 2000 Maribor, Slovenia.

³ INRA (Nantes), Laboratoire d'Etudes et de Recherches Economiques – LERECO, Rue de la Géraudière – B.P.71627 44316 Nantes Cedex 3, France.

Manuscript received: October 7, 2005; Reviewed: January 3, 2006; Accepted for publication: June 23, 2006

ABSTRACT

The comparative analysis of trade with agricultural and food products of ten EU new member states (NMS), with emphasis on Slovenia, has been conducted at a highly disaggregated level. Slovenia has always been the net importer of agricultural and food products, and the same goes for the majority of ten NMS in the period analysed. For the purpose of assessing the similarities in their export structure, the export similarity index “S” has been used. By its use no significant overlap of export structures between NMS is revealed, but the slightly increase in resemblance is observed from 1999 to 2003, indicating the simultaneous restructuring of NMS’ agri-food sectors. Another indicator introduced in this comparative analysis is Revealed Comparative Advantage “RCA”, measuring competitiveness through major groups of products. Slovenia has the comparative advantage in comparison with the rest of new member states in following groups of products: meat, dairy products, beverages and others.

Key words: New member states, Agri-food trade, Export Similarity Index, Revealed Comparative Advantage

IZVLEČEK

V prispevku analiziramo trgovino s kmetijskimi in živilskimi proizvodi novih članic Evropske Unije. Analiza je narejena na dezagregirani ravni podatkov po posameznih proizvodih. Slovenija je, tako kot večina desetih novih članic EU, tradicionalna neto uvoznica hrane. Za prikaz skupnih značilnosti izvoza obravnavanih držav je uporabljen “izvozni indeks” S [8]. Z uporabo indeksa S je nakazana precej različna struktura izvoza kmetijskih in živilskih proizvodov, vendar pa le-ta s časom počasi, a vztrajno vse bolj sovпада in nakazuje na obstoječe podobne procese prestrukturiranja agro-živilskih sektorjev v novih EU članicah. S pomočjo analize izvoza so prav tako opredeljene komparativne prednosti Slovenije za nekatere skupine proizvodov (meso, mlečni proizvodi, pijače in ostalo).

Ključne besede: Nove članice EU, trgovina s kmetijskimi in živilskimi proizvodi, izvozni indeks, komparativna prednost

PODROBNI IZVLEČEK

V prispevku prikazujemo osnovne značilnosti trgovine s kmetijskimi in živilskimi proizvodi na območju desetih novih članic Evropske Unije (EU): Ciper, Češka Republika, Estonija, Latvija, Litva, Madžarska, Malta, Poljska, Slovaška in Slovenija. Pri analizi trgovinskih tokov omenjenih držav lahko razlike med le-temi v veliki meri pripišemo različni pomembnosti in stopnji napredka kmetijskega in prehranskega sektorja v posameznih državah. Za analiziranje stopnje konkurenčnosti in primerjavo slovenskega agro-živilskega sektorja s sektorjem v ostalih državah, smo uporabili dva bolj ali manj tradicionalna zunanjetrgovinska indikatorja, ki analizirata predvsem izvozno stran blagovne menjave. Prvi je t.i. »Export Similarity Index« (enačba (1)) ali indeks podobnosti izvoza S [8]. Drugi uporabljen indeks je »Revealed Comparative Advantage RCA« (glej enačba (2)) ali t.i. indeks komparativnih prednosti [2]. Analiza temelji na podatkih Slovenskega statističnega urada, kjer smo zajeli podatke o kmetijskih in živilskih proizvodih v prvih štiriindvajsetih poglavjih Kombinirane Nomenklature (KN) na nivoju šestih decimalk. S to serijo podatkov pokrivamo obdobje od leta 1996 do leta 2002. Nadalje smo za potrebe komparativne analize z ostalimi novimi EU članicami uporabili podatke Eurostatove baze podatkov Comext na nivoju osmih decimalk KN 1-24 za petletno obdobje pred vstopom v EU (1999-2003). Rezultati analize nam prikazujejo specifično geografsko orientiranost slovenskih trgovcev s kmetijskimi in živilskim proizvodi (glej Tabela 1 in Slika 1). Saldo blagovne menjave omenjenih proizvodov je brez izjeme skozi celotno obdobje negativen. Pri proučevanju geografske porazdelitve nadalje ugotovimo, da je takšen saldo značilen za vse izvozne trge (npr. EU, CEFTA) z izjemo trgov bivše Jugoslavije, kjer dosegamo tradicionalne presežke v menjavi. Kot možen razlog za tovrstne geografske vzorce trgovanja v analiziranem obdobju lahko omenimo (pre)majhno stopnjo konkurenčnosti slovenskih agro-živilskih proizvodov na večini mednarodnih trgov. V nadaljevanju analize ugotovimo, da so poleg Slovenije neto uvoznice hrane tudi praktično vse ostale nove EU članice, z izjemo Madžarske, katere agro-živilski sektor lahko označimo kot enega najbolj uspešnih v smislu trgovanja med desetimi obravnavanimi državami (Tabela 2, 3 in 4). Poleg Madžarske, lahko uvrstimo med najmočnejše trgovinske partnerice evropskih držav tudi Poljsko, tako na področju predelanih kot nepredelanih proizvodov. V nadaljevanju prispevka interpretiramo vrednosti uporabljenih

zunanjetrgovinskih kazalcev in njihov pomen, pri čemer ugotavljamo, da Slovenija polagoma izgublja na svoji konkurenčnosti izvoženih agro-živilskih proizvodov v primerjavi z ostalimi novimi članicami EU.

INTRODUCTION

In the 2004 enlargement towards East, ten new member states (NMS) joined the European Union: beside Slovenia, two island states (Cyprus and Malta) and the following Central and Eastern European countries: Czech Republic, Slovakia, Poland, Estonia, Lithuania, Latvia and Hungary. They form all but homogeneous group; in some of NMS agricultural sector still accounts the proportional share of GDP and/or employment (e.g. Poland), while in the others (Slovenia, Czech Republic, Hungary, Estonia) this share is currently close to the EU average level. Unequal significance and level of development of agricultural and also food sector can be seen when analysing the trade patterns of ten NMS. The dissimilarities are deepened while they are developing different specialization patterns along agri-food chain, with various degree of competitiveness from one country to another. Some indications about the magnitude of efficiency of the agri-food sector¹ are presented in the continuation, emphasising Slovenian trade performance in comparison with the rest of NMS. In Section 2, the methodology and data used are presented, while the Section 3 continues with the results and discussion. Section 4 concludes this paper.

METHODOLOGY AND DATA

For examination of competitiveness and comparison of Slovene agricultural sector and food industry with the rest of NMS, the highly disaggregated data from two sources have been analysed, comprising agricultural and food products from first twenty-four chapters of Combined Nomenclature (CN). Firstly, for the detailed analysis of Slovene agricultural and food trade, which is partially presented in this paper, the data from Slovene Statistical office from 1996 to 2002 has been used on the level of 6 digits of (CN) and secondly, the comparison with the rest of NMS has been investigated on level of 8 digits CN from Eurostat's Comext database for the period 1999 – 2003.

Methodology used to assess the relative state of competitiveness of Slovenian agri – food sector compared to the rest of NMS can be based on usage of selected

¹ Agri – food sector comprises agricultural production and food industry.

trade indicators. One of them is Export Similarity Index (S) [8], defined as:

$$S(ab,c) = \left\{ \sum_i \text{Minimum}[X_i(ac), X_i(bc)] \right\} 100 \quad (1)$$

It measures the similarity of export patterns of countries (or country groups) a and b to market c. $X(a)$ is the share of commodity i in a's exports to c. If the commodity distribution of a's and b's are identical ($X(a) = X(b)$ for each i), the index will take on a value of 100. If a's and b's export patterns are totally dissimilar (for each $X(a) > 0$, $X(b) = 0$, and vice versa), the index will be zero. Index compares only patterns of exports across product categories, so it is not influenced by the relative sizes or scales of total exports. But, it should be noted here that this measure may be subject to aggregation bias (as the data are more finely disaggregated, the index will tend to fall) and hence embodies a certain arbitrariness due to product choice. With the aim to compare Slovenian exports with the exports of respective NMS the index S was computed on the 6 digits level of CN for all the products, which were later disentangled into two major groups of primary and processed products. For these two groups we assume different level of value added - processed products reveal higher value added content than primary ones². The S for the two groups reflects

the similarity / dissimilarity of exports of agricultural and food products respectively and thus illuminate their degree of competition separately.

Measure of revealed comparative advantage (RCA), originating from [2] can be used to help assessing a country's export potential. The RCA indicates whether a country is in the process of extending the products in which it has a trade potential, as opposed to situations in which the number of products that can be competitively exported is static. It can also provide useful information about potential trade prospects with new partners. The RCA index of country i for product j is measured by the product's share in the country's exports in relation to its share in world trade (since our purpose is the comparison of NMS, we will refer to NMS' shares instead of world shares):

$$RCA_{ij} = \frac{\frac{x_{ij}}{X_{it}}}{\frac{x_{wj}}{X_{wt}}} \quad (2)$$

where x_{ij} and x_{wj} are the values of country i's exports of product j and world (NMS) exports of product j and where X_{it} and X_{wt} refer to the country's total exports and world (NMS) total exports. A value of less than unity

Table 1. Slovenian trade balance for agri-food products with respect to geographical repartition (in mio €).

	EU ¹	ex Yu ²	CEFTA ³	ROW ⁴	Total
1996					
Export	65.58	175.52	8.25	33.04	282.38
Import	316.93	82.11	89.76	145.15	633.96
Balance	-251.36	93.41	-81.51	-112.12	-351.57
2002					
Export	83.19	269.30	11.35	43.65	407.49
Import	413.96	80.23	129.67	135.28	759.14
Balance	-330.77	189.07	-118.33	-91.63	-351.65

¹ EU 15 members

² Bosnia and Hercegovina, Serbia and Montenegro, Croatia, Former Yugoslav Republic of Macedonia

³ Current CEFTA members in the respective years

⁴ The rest of the world (not included in 1, 2 or 3)

Source: own computations based on data from Slovene Statistical Office.

² We refer to primary products as the ones, are classified by BEC (Broad Economic Categories classification of United Nations) into following categories: 111=food and beverages, primary, mainly for industry; 112=food and beverages, primary, mainly for household consumption; 21=industrial supplies not else specified-primary. The processed products refer to following categories: 121=food and beverages, processed, mainly for industry; 122=food and beverages, processed, mainly for HH consumption; and 22=industrial supplies not else specified-processed.

implies that the country has a revealed comparative disadvantage in the product (or group of products). Similarly, if the index exceeds unity, the country is said to have a revealed comparative advantage in the product (group of products).

RESULTS AND DISCUSSION

Looking from the trade perspective, Slovenian agri-food sector is certainly not a driving force of Slovene economy. The negative trade balance on all but former Yugoslav states' market (Table 1) provides first indication that Slovenia lacks competitiveness in the agricultural and food sector vis-à-vis the majority of its trading partners. Of course the status of net-importer country may be to some extent justified by the fact that conditions for farming in Slovenia are unfavourable and that the supply cannot follow the demand. But for the structure of our trade with relatively low level of value added (see also [4]) no such justification is to be seen, and the need for more efficient structural reform of the agricultural and food sector seems to be the future necessity.

As Table 2 indicates, the trade balances for agricultural and food products of all but one NMS (Hungary) are negative. So all NMS (with the exception of Hungary), are net importers of agricultural and food products. Hungary is relatively abounded with natural land resource and internationally competitive, especially in crop and meat production. It is the NMS case where FDI

impacts are clearly visible, with the FDI penetration as one of the highest among the national food industries in the entire continent, which resulted in a steady increase in productivity compared to other CEE countries [10],[11]. The composition of the 10 NMS imports and exports to the European market in 2003 again reveals the predominant role of Hungary and Poland as the larger European trading partners among NMS. Hungary and Poland's export to European market accounts more that 60 per cent of all 10 NMS exports and around 40 percent of the total 10 NMS imports. While looking at primary products, more than one third of those are exported by Poland, followed by Hungary, while Slovenian share accounts less than 2 percent. On the import side, the majority of primary products are imported by Poland, while Slovenia imports more than 7 percent of those. When trading with processed products, again the strongest exporters are Poland and Hungary, Slovenian share is about 3.5 percent, while we import around 7 percent (the detailed computation available at authors by request).

Patterns of trade geography are influenced by different factors, such as political and economic factors, but usually also strongly determined with historical and cultural linkages. Slovenia started to diversify its trade during the 1980s with the economic decline of the former Yugoslav economy, but reorientation was more substantial for other manufactured goods but agri-food products [3]. So, with this in mind, Slovenian trade orientation of agri-food products in last years still reveals this rather unusual

Table 2. Ten NMS trade balance for agri-food products in 2003 (in mio €).

Country	Export	Import	Balance
Czech Republic	1212.49	2196.42	-983.93
Cyprus	144.99	461.41	-316.41
Estonia	294.57	505.99	-211.42
Hungary	2624.13	1340.14	1283.99
Latvia	171.18	543.62	-372.43
Lithuania	600.74	640.06	-39.32
Malta	92.62	319.72	-227.10
Poland	3037.12	3183.07	-145.95
Slovakia	523.02	941.15	-418.13
Slovenia	248.79	741.74	-492.95

Note: the results, when using the widely recognised Comext database, differ from those obtained from National statistic offices in respective countries (e.g. according to the official trade statistics for Slovakia trade balance in year 2003 reached -361.34 mio € and for Slovenia -419.27 mio €). Authors are fully aware of the problem of data availability and reliability especially in the case of NMS. The divergence in data (and results) between the national and EU databases comes mainly from different statistic regimes and ways of collecting and computing the data in respective countries. But for the purpose of this comparative analysis the use of such uniform database is necessary for correct calculation of different trade indicators (*S*, *RCI*) in order to obtain the direct comparison between NMS.

Source: own computations from Comext database.

picture. Instead of orienting more towards EU market (due to the expected accession), Slovenian exporters still focused mainly on the markets of former Yugoslav republics and even expanded their exports to these markets. This can be explained by bilateral free trade agreements between Slovenia and former Yugoslav states, yet with the EU entry in 2004 the Slovenian preferential trade status is abolished. Slovene traders should focus to other markets in larger extent before the actual EU entry was stepping into the force in 2004, and by this at least partially avoid the shock of loosing shares on important southern markets. This intuitive thinking is confirmed by [9], who argue that usually the effects of regional trade agreements are visible before their actual implementation and the same conclusions draw [7]. We must stress out here that this was not the case of Slovenia, exporting only 23% to the EU in 2002, and almost three quarters to the other countries, namely ex YU (see Figure 1). Being part of the same state until 1990s, thus historical links, similar language and common border (with Croatia) are probably the reason for this orientation. Unfortunately, the data to explore the changes in terms of trade before and after the breakdown of former Yugoslavia and use of common currency was not available to us³, but still, after more than decade, Yugoslav markets remain the pivotal one for Slovenian exporters. Between the year 1996 and 2002 two important events occurred: Slovenia became the CEFTA member in the very same year (1996) and two

years later signed the European association agreement. One would think, major steps should be undertaken by Slovenian traders as a response to these occurrences. As [3] report, due to high prices of Slovenian agri-food products compared to other CEFTA members, Slovenian farmers feared the removal of import tariffs will induce increase of CEFTA's imports and welfare losses for domestic producers. But, as Figure 1 shows, their fears did not become the reality, since CEFTA membership did not influence the trade significantly. This is empirically confirmed by [6], who used the gravity model to explain the level of border effects which are more significant towards CEFTA than EU and so the integration towards the latter was much deeper than towards former.

So is there a sort of trade resistance between Slovenia and its trading partners? And if so, does this hold for the rest of NMS as well; characteristically only for agri – food sector or does it hold in general for the whole economies? These questions could be further explored by the use of some empirical techniques (e.g. gravity modelling). To return to the trade orientation, in Table 3 the geographical patterns of all ten NMS in year 2003 are shown.

The differences between NMS occur more evidently when we take a closer look at their geographical patterns of trade (Table 3). Malta and Cyprus seem to trade more with EU and other countries, than with the rest of NMS, since both trade flows (export and import) to the NMS represent a very minor proportion. For the rest of eight Eastern and

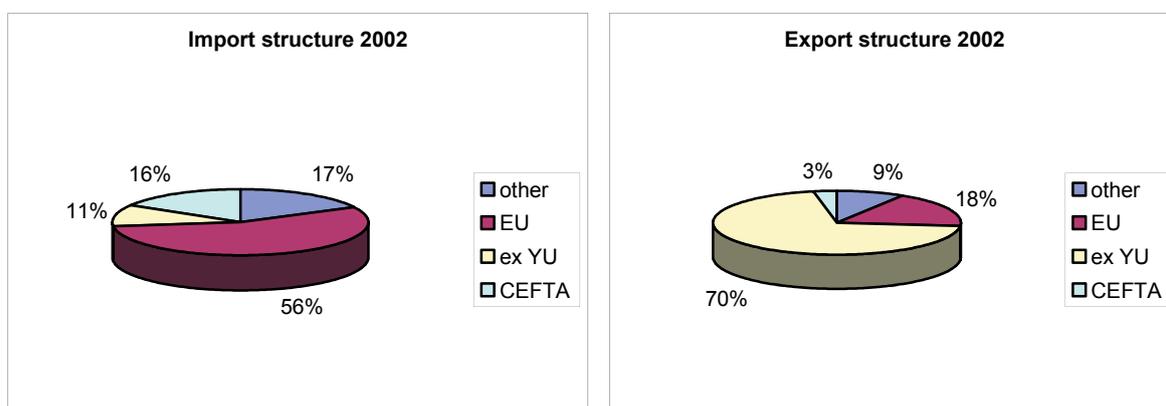


Figure 1. Geographical patterns in Slovenian trade with agri-food products in 2002 (Source: own computations based on data from Slovene Statistical Office).

³ According to [3], in 1992 the export of agri-food products to EU market accounted almost 32%, and former Yu market 54%. On the import side, the EU share was 29% and former Yu 43%. So our export competitiveness toward EU has significantly fallen, while supply from Yugoslav markets with unfavorable political situation was replaced by other countries, most notably EU.

Table 3. Geographical repartition of the 10 NMS import and export (%) of agri-food products, respectively, in year 2003.

	Import geography			Export geography		
	EU15	9 NMS	ROW ¹	EU	9 NMS	ROW
Czech Republic	52,01	24,17	23,82	35,45	43,33	21,22
Cyprus	58,22	0,39	41,38	66,16	4,97	28,87
Estonia	51,64	24,56	23,80	36,14	35,93	27,93
Hungary	51,66	10,31	38,04	51,04	12,46	36,50
Latvia	45,50	22,17	32,33	30,72	26,10	43,18
Lithuania	42,51	40,79	16,70	26,35	30,88	42,77
Malta	76,53	0,45	23,02	13,97	0,16	85,87
Poland	52,22	5,82	41,96	52,63	13,07	34,30
Slovakia	33,06	12,31	54,64	21,99	63,64	14,37
Slovenia	53,59	14,13	32,29	22,23	3,38	74,39

¹The market "Rest of the world" constitute all other trading partners but EU15 members and NMS.

Source: own computations from Comext database

Central European NMS, which in the geographical way constitute the lax region, of course trade with other NMS does gain more important share, namely in the import of Czech Republic and Estonia on import side, as well as Slovakia and again Czech Republic on the export side. In fact, EU is a major importer to all NMS. On the export side, picture is much more heterogeneous. EU represents a major export market for Cyprus, Hungary, Poland and also Estonia (in the latter case with the shares almost equally distributed among export markets). Very important export market for Slovenia represents market ROW (almost three quarters - notably ex Yu), while for Malta this share of third countries is even higher. Slovenia now faces the direct competition of other twenty-four states on the single market. This competition will hopefully induce quicker and more efficient restructuring in agricultural and food sector. To explore further the situation on two important markets for Slovenia, EU and countries of former Yugoslavia, the Export Similarity Index S was computed for Slovenia in comparison to the rest of NMS. With its use, the similarity of exports (by value added content) is revealed for years 1999 and 2003, which enables us to look closer at the competition on these markets we might face from other NMS. The degree of competition on Single European Market among NMS depends among others also on the similarity of their exports. The similarity of Slovenian exports with other compared NMS countries is not very significant when competing on the global market, although it has risen or remained more or less on the same level in most cases in period from 1999 to 2003 (detailed computations available at authors). The only exception is Malta, which trade is obviously very much different from Slovenian

one. To take a look on EU market (Table 4), the increase from 1999 to 2003 in similar exports for Slovenia compared to 9 NMS is to be seen in most cases, most notably with Poland, Czech Republic and Slovakia. We may say, the more the exports are similar, the bigger the competition is that we are facing on the targeting market and likely trade diversion effect occurs – possibility of displacement of imports from Slovenia by other nine NMS countries becomes larger.

In general, the biggest similarities, revealed by the S indicator, are to be seen in the case of Slovenia with Czech Republic and with Slovakia. Regarding the market of former Yugoslav republics (see Table 5), which was in the analysed period very important for Slovenian agri-food trade, we notice that while in 1999 not all NMS exported their agri-food products, but four years later they expanded to these markets, most notably with processed products. As on all the other markets analysed, also on this one the most evident similarity is revealed with Czech Republic and Hungary, with Slovakia following. But attempts to maintain the market shares in the former Yugoslav region are visible at the moment: some of the major Slovene companies in the food sector merge due to more successful access to these markets.

Through applying the RCA formula to Slovene and NMS data, it is possible to identify the groups of products in which Slovenia has comparative advantages. [1] claims that according to Heckscher-Ohlin theorem, country exports those goods that require relatively intensive use of the factor endowment in which it is relatively abundant, so the comparative disadvantage might suggest the absence of natural resources and raw materials in production of

Table 4. Slovenian export similarity with the rest of 9 NMS on the EU market.

Country	All products		Primary		Processed	
	1999	2003	1999	2003	1999	2003
Malta	14,41	2,38	2,34	3,32	40,88	2,31
Estonia	6,63	16,20	2,90	8,43	9,76	18,67
Latvia	9,73	9,14	7,30	10,51	11,79	8,56
Lithuania	13,10	12,46	10,51	9,83	15,24	18,62
Poland	16,62	20,06	18,85	12,79	14,47	27,08
Czech Republic	15,15	21,27	13,44	17,87	15,86	24,15
Slovakia	11,94	19,51	6,43	11,20	16,27	28,22
Hungary	17,11	16,92	16,79	11,46	15,86	23,21
Cyprus	6,75	9,00	1,12	2,13	13,74	13,93

Source: own computations from Comext database

Table 5. Slovenian export similarity with the rest of 9 NMS on the ex Yu market.

Country	All products		Primary products		Processed products	
	1999	2003	1999	2003	1999	2003
Malta	/*	3,26	/	0,19	/	4,16
Estonia	8,69	0,25	0,96	/	12,35	0,32
Latvia	/	0,23	/	/	/	0,29
Lithuania	0,57	6,13	0,00	5,21	0,90	6,40
Poland	5,75	10,58	3,88	17,74	13,94	7,35
Czech Republic	20,65	22,36	19,22	22,93	21,94	22,31
Slovakia	25,56	14,70	38,57	24,23	22,04	11,57
Hungary	23,48	24,01	14,30	18,22	30,85	27,76
Cyprus	2,02	1,44	3,38	1,13	2,41	1,82

*No exports from respective NMS to the ex Yu market were reported.

Source: own computations from Comext database

broad commodity types described below. Comparative advantage is a dynamic concept, since the country's ability to produce certain goods changes over time, due to various endogenous or exogenous factors, such as changes in factor endowments, including technology and human capital.

The results reveal competitiveness and structural changes which occurred in an analysed period. Although a country may have a RCA in particular industry at the time, this does not guarantee that the comparative advantage will be maintained straight forward. But the development and past changes might be seen evidently (see Table 6), probably even more if one has longer time series of the data available for the analysis. The sharp decrease of comparative advantages is seen in product's group Others, while for Meat, Dairy products and markedly for Oilseeds and Beverages the advantages have risen.

CONCLUSIONS

Slovenian trade with agricultural and food products is compared to the rest of new member states. Comparative advantages in 2002 hold for four out of ten product groups. The export structure was also analysed in terms of export similarity index S, where the slight declining of Slovene competitiveness on all exporting markets through the period 1999-2003 is noted. On the basis of increased values of S, we conclude that the structural changes in agricultural production and food industry have occurred, and two sectors became more similar over analysed period in ten NMS. If this path continues, Slovenia will lack competitiveness in agri-food sectors compared to NMS toward EU and other markets in the future. The speed and extent of adjustment towards the competitors will be the key factor of Slovene agri-food sector in the near future.

Table 6. Slovene Revealed Comparative Advantages in 2002, compared to the rest of NMS.

Group of products ⁴	1999	2002
Cereals	0.79	0.55
Fruits and vegetables	0.34	0.26
Meat	1.09	1.27
Dairy products	1.52	1.64
Sugar	0.29	0.17
Oilseeds	0.49	0.90
Beverages	1.15	2.51
Condiments	0.90	0.92
Fish	0.38	0.23
Others	3.75	1.10

Source: own computations from Comext database

REFERENCES

[1] Addison – Smith, D., Ireland's Revealed Comparative Advantage, *Quarterly Bulletin* 1. Economic Analysis, Research and Publications Department, Central Bank & Financial Services Authority of Ireland (2005)1: 101-114.

[2] Balassa, B., Trade Liberalization and 'Revealed' Comparative Advantage, *The Manchester School of Economic and Social Sciences* (1965)33: 99-123.

[3] Bojnec, Š., Hartmann, M., Agricultural and Food Trade in Central and Eastern Europe: The Case of Slovenian Intra-Industry Trade, IAMO Discussion Paper No. 65, Halle (Saale): Institute of Agricultural Development in Central and Eastern Europe, 2004, pp. 1-35.

[4] Bojnec, Š., Majkovič, D., Globalization of Slovenian agricultural and food trade, *Managing global transitions* (2006) 4: 347-361.

[5] Chevassus-Lozza E., and Gallezot, J., Les effets de l'élargissement de l'Union aux PECO sur les marchés agricoles et agro-alimentaires, Study for French Ministry of Agriculture and Fish, convention no96 G5 01 02, 1998.

[6] De Sousa, J. and Disdier A.C., Legal Framework as a Trade Barrier – Evidence from Transition Countries: Hungarian, Romanian and Slovene examples, *HWWA Discussion Paper* no. 201, 2002, pp.1-41.

[7] Eichengreen B., and Irwin D., The Role of History in Bilateral Trade Flows, *NBER Working Papers* 5565, National Bureau of Economic Research Inc., 1996.

[8] Finger, J.M., Kreinin, M.E., A Measure of „Export Similarity“ and the Possible Uses. *The Economic Journal* (1979) 89: 995-912.

[9] Frankel, J., Stein, E. and Wei, S., Trading blocs and the Americas: The natural, the unnatural, and the super-natural, *Journal of Development Economics*, Elsevier, (1995) 47: 61-95.

[10] Jansik, C., Food Industry FDI – An Integrating Force between Western and Eastern European Agri-food Sectors, *Eurochoices* (2004) 3: 12-16.

[11] Swinnen, J., Will Enlargement Cause a Flood of Eastern Food Imports, Bankrupt the EU Budget and Create WTO Conflicts?, *Eurochoices* (2001) 1: 48-53.

⁴ The products are classified in ten groups according to the classification key developed by [5].