The impact of further tariff reduction on the EU sugar sector in the forthcoming multilateral round

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This paper indicates the need for reform in the EU sugar sector due to the erosion of border protection in terms of further reduction in import tariffs for sugar. Three tariff reduction methods are assessed to project the border protection for EU sugar: Swiss formula proposed by the Cairns Group, Harbinson proposal by the World Trade Organization (WTO) and Uruguay Round formula proposed by the EU. In the assumed forthcoming multilateral round for agriculture, the EU would need to lower the support price for sugar by 67%, if the Cairns Group tariff reduction method is used. However, if the Harbinson method is used, the EU would need to lower the support price for sugar by at least 35%. On the contrary, the EU may avoid lowering the support price for sugar under three concurrent conditions: 1) the Uruguay Round formula is used as the reduction method in the new WTO round and the EU can use the minimum reduction rate of 15% for sugar; 2) world sugar prices will recover in the future; and 3) both developed and developing countries are allowed to use the Special Safeguard Provisions.

Key words: tariff reduction, sugar, European Union, international trade, linear models, Swiss formula, Harbinson proposal, Uruguay Round formula, World Trade Organization

Introduction

Progress is slow in the negotiations for a new multilateral agreement under the World Trade Organization (WTO), where the agricultural sector is currently receiving special treatment. The global average rate of tariffs on agricultural products after the Uruguay Round is 62% (USDA 2001). In comparison, the global average rate of tariffs on manufactured products was over 40% in 1947, but the average rate was less than 4% at the conclusion of the negotiations for the Uruguay Round in 1994 (Porter et al. 2001, p. 3–15). Thus, it is likely that forthcoming rounds of multilateral agreements under the WTO will focus on decreasing the protection and tariffs for agricultural products, especially in the developed countries.

One of the key issues is the formula for achieving reductions in agricultural tariff rates, which are acknowledged to be too high. The de-
bate in bringing import tariffs down is polarised between supporters of the so-called Swiss formula and the backers of a linear approach for reducing tariffs. Under the linear approach, which was adopted in the Uruguay Round, high and low tariffs are both reduced at the same percentage rate, leaving the highest tariffs still at prohibitive levels even after any percentage reduction has been made. The Swiss formula approach recognises the wide diversity in the current range of tariffs. Using a coefficient mechanism, high starting tariffs are reduced at a faster rate than lower tariffs, thus addressing the issue of tariff peaks for certain heavily protected products such as sugar.

The objective of this paper is to estimate the potential implications of tariff reductions on the EU sugar sector. Three proposals to decrease import tariffs are examined. These proposals are from the European Union (Uruguay Round formula), the Cairns Group (Swiss formula) and the WTO (Harbinson proposal formula). The need for reform (lowering the intervention price) in the EU sugar sector is indicated in the paper due to the erosion of border protection for sugar because of further reduction in import tariffs in the future multilateral round for agriculture. The EU sugar sector has avoided extensive reforms in the past decades, but may encounter far reaching reforms in year 2006.

Earlier studies have evaluated the impacts of alternative EU sugar reform policies on EU sugar production, consumption, welfare, world sugar prices and trade. Frandsen et al. (2003) have demonstrated that the impacts of different policy reform options (cut in sugar intervention price by 25% only or reduction in sugar production quotas by 13% only) would have very different effects on the EU sugar sector and the degree of market access for countries outside the EU. The results are generated by the GTAP model, which is a standard multi-regional, static computable general equilibrium model. Poonyth et al. (2000) have also shown the impacts of reducing EU production quota for sugar alone and the combination of production quota reductions and intervention price cut by using a non-spatial partial equilibrium model (structural econometric model). Also, Roberts and Whish-Wilson (1991) and Bureau et al. (2001) have pointed out the option of reforming the EU sugar regime by allowing the production quota rights for sugar to be traded between sugar producers in the EU.

### Tariff reduction formulas

Three different tariff reduction formulas are used for the projections of border protection for EU sugar (Table 1). The first formula is the Uruguay Round formula with a linear 36% on average and a minimum of 15% reduction in standard tariffs. The second formula is the Swiss formula proposed by the Cairns Group with standard tariffs.

Table 1. Tariff reduction formulas used in the projections for border protection.

<table>
<thead>
<tr>
<th>Formula</th>
<th>Description</th>
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<tbody>
<tr>
<td>Uruguay Round formula</td>
<td>( t_1 = (1-a) \cdot t_0 ), where parameter ( a = 0.36 ) (on average 36% reduction in tariffs) or parameter ( a = 0.15 ) (with a minimum 15% reduction in tariffs)</td>
</tr>
<tr>
<td>Swiss formula</td>
<td>( t_1 = (a \cdot t_0) / (a + t_0) ), where parameter ( a = 25 ) (no individual tariff exceeds 25%)</td>
</tr>
<tr>
<td>Harbinson proposal formula</td>
<td>( t_1 = (1-a) \cdot t_0 ) for all agricultural tariffs greater than 90% in ad-valorem basis, where parameter ( a = 0.60 ) (on average 60% reduction in tariffs) or parameter ( a = 0.45 ) (with a minimum 45% reduction in tariffs)</td>
</tr>
</tbody>
</table>

\( t_1 = \) import tariff for sugar at the end of the assumed new WTO round for agriculture
\( t_0 = \) import tariff for sugar at the end of the Uruguay Round Agreement on Agriculture
not exceeding 25% after reduction and a 50% down payment reduction made in the first year. Finally, the third formula is the tariff reduction formula proposed by the WTO or the so-called Harbinson proposal (WTO 2003) with a linear 60% on average and a minimum of 45% reduction for tariffs greater than 90% in ad-valorem basis.

The negotiation process in the WTO under the Doha Development Agenda is assumed to be completed by January 2005. Hence, the new WTO round is assumed to begin in marketing year 2005/2006 and end in marketing year 2009/2010, over an assumed five-year implementation period.

The base year for further tariff reduction is assumed to be marketing year 2004/2005, which is the continuance of Uruguay Round’s final bound rate for EU sugar. The linear reduction formulas of the Uruguay Round and Harbinson proposal are applied directly to the specific tariff rate for EU raw sugar in 2004/2005. However, the specific tariff rate for EU raw sugar is converted into ad-valorem equivalent for further tariff reduction under the Swiss formula. There is no perfect solution for converting a specific tariff into an ad-valorem equivalent. The price used for the conversion has a considerable impact on the value of the ad-valorem equivalent (Bureau and Salvatici 2003). The price utilised for calculating the ad-valorem equivalent tariff for EU raw sugar is the average of six years world market price for raw sugar during the Uruguay Round from 1995/1996 to 2000/2001. The ad-valorem equivalent tariff is the final bound tariff rate for EU raw sugar divided by the six-year average of the world market price for raw sugar:

Average world market price from 1995/1996 to 2000/2001 = EUR 200

Final bound tariff rate for EU raw sugar in 2000/2001 = EUR 339

Ad-valorem equivalent tariff for EU raw sugar = EUR 339/EUR 200 = 169.5%

After the conversion, ad-valorem tariffs (after being reduced by the Swiss formula) are calculated on the basis of world market price multiplied by the lowered ad-valorem tariff for the particular marketing year.

World market prices

The world sugar market is considered to be a highly distorted commodity market. World sugar prices are mostly driven by the level of stocks as a percentage of world sugar consumption and world demand for sugar. In the past years, the world market for sugar has been characterised by considerable overproduction and a rising level of stocks. The ratio of stocks as a percentage of world sugar consumption has risen from 36% in 1992/93 to 49% in 2001/2002. World stocks are at a high level, which has had the effect of depressing world market prices for sugar. It is reasonable to assume that world sugar prices will remain under pressure unless there are major changes in the current structure of the world demand and supply for sugar. Contrary to the results of Devadoss and Kropf (1996) generated by a non-spatial equilibrium world sugar model, agricultural trade liberalisation under the Uruguay Round did not stabilise the world sugar prices. In fact, the world price for raw sugar was higher at the beginning of the Uruguay Round than after the end of the Uruguay Round.

Sensitivity towards the fluctuation of world market prices for raw sugar (FOB Caribbean Price/New York No. 11) is considered by using both the Organisation for Economic Co-operation and Development (OECD 2003) and the Food and Agricultural Policy Research Institute (FAPRI 2003) projections of world market prices for raw sugar. Overall, the FAPRI projections are more optimistic compared to the OECD projections for the world prices of raw sugar. The world market prices are given in the form of free on board (FOB), but the projections are calculated on the basis of cost, insurance and freight. The cost per ton for insurance and freight can be found from Sugaronline.
Exchange rate movements and the Special Safeguard Provisions

The volatility of the Euro has been high from year 2001 to 2003, moving from one Euro equals to USD 0.80 towards USD 1.20. In year 2001, the weak Euro scenario was dominant, but the strong Euro scenario was dominant in year 2003. The projections’ sensitivity towards the strength of the Euro is measured by using two scenarios – a weak Euro scenario (EUR 1 = USD 0.80) and a strong Euro scenario (EUR 1 = USD 1.20). Under the scenario of a strong Euro (when world market prices are low), projections are made to show the additional border protection provided by the Special Safeguard Provisions for sugar (Commission Regulation No 1423/95). The safeguard duties are calculated according to the specifications given under Article 5.5 of the Uruguay Round Agreement on Agriculture. WTO members are allowed to impose additional duties automatically when import prices fall below a certain level or if import volumes rise above a certain level by invoking the Special Safeguard Provisions as a safeguard measure.

EU proposal

The EU will most probably lose its border protection for raw sugar in the assumed new WTO round if the standard tariff for EU raw sugar is further reduced by 36% for both weak and strong Euro scenarios. The import price (world market price plus tariff) for raw sugar from the world market will be lower than the intervention price for EU raw sugar (EUR 523). Under the scenario of a strong Euro, even the additional safeguard duties provided by the Special Safeguard Provisions are not enough to provide the border protection for EU raw sugar. The EU sugar regime cannot sustain a 36% reduction in tariff without cutting the intervention price for sugar. Though, a 25% cut in the intervention price for raw sugar (earlier suggested by the EU Commission) will be adequate in providing the border protection for EU raw sugar, but the safeguard duties are needed under the scenario of a strong Euro.

The EU may avoid cutting the intervention price for raw sugar by choosing the minimum reduction level of 15% under the Uruguay Round formula and using the optimistic FAPRI figures.
Fig. 2. Uruguay Round formula and the Special Safeguard Provisions additional duties imposed — The level of protection for EU raw sugar in the new WTO round under a strong Euro and after linear 15% reduction in standard tariff. *Additional duties are calculated from 2003/2004 onwards. Source: FAPRI 2003, USDA 2003, Commission Regulation No 1423/95, Sugaronline, author’s calculations.

for world market prices. Furthermore, additional safeguard duties are needed under the scenario of a strong Euro (Fig. 2). As a result, three conditions are needed to avoid reform (cut in intervention price) in the EU sugar regime and maintain border protection under the assumed new WTO round: 1) the Uruguay Round formula will be accepted as the reduction method in the assumed new WTO round and the EU can use the minimum reduction rate of 15% for sugar; 2) world sugar prices will recover in the future (at least similar to the levels projected by FAPRI); and 3) both developed and developing countries are allowed to use the Special Safeguard Provisions.

Cairns Group proposal

The EU will even more likely lose its border protection for raw sugar in the assumed new WTO round if the standard tariff for EU raw sugar is further reduced according to the Cairns Group proposal by using the Swiss formula. Moreover, a 25% cut in the intervention price for raw sugar is not sufficient to provide border protection for both the weak and strong Euro scenarios (Fig. 3). There is a need to lower the intervention price by 67% in order to maintain border protection for EU raw sugar. Hence, the intervention price system may no longer be applicable in the EU sugar regime and most probably a safety net system would replace the intervention price system.

Harbinson proposal

The EU will probably expect to lose its border protection for raw sugar in the assumed new WTO round if the standard tariff for EU raw sugar is further reduced by 60% according to the Harbinson proposal. In order to maintain the border protection for raw sugar under this reduction rate, the intervention price needs to be lowered by 45%.

The EU can also choose the minimum reduction rate of 45% under the Harbinson proposal, but the EU will still face the possibility of losing its border protection for raw sugar in the assumed new WTO round. Nonetheless, the EU will be able to sustain its border protection with a 25% cut in the intervention price for raw sugar.
under a weak Euro scenario, but incapable of maintaining its border protection under a strong Euro scenario (Fig. 4). In this case, there is a need to lower the intervention price by 35% in order to maintain border protection for EU raw sugar.

Conclusions

The EU sugar sector is sensitive to further tariff reductions because of the huge difference between the EU support price (intervention price for raw sugar is EUR 523) and world market price for sugar (New York No. 11 is between EUR 110 to 200 per ton). The likelihood for the EU sugar sector to escape reform is small, although member governments in the WTO failed to agree on a framework of modalities for the future agriculture trade reform at the Fifth WTO Ministerial Conference held in Cancun on September 2003. The negotiations under the Doha Development Agenda are still on-going and the final agreement may not be achieved by January 2005. However, the future multilateral agreement on agriculture will eventually decrease protection for agricultural products. Thus, tariffs for
sugar will decline sooner or later. There is a need to reform the EU sugar sector by lowering the intervention price for sugar because of the erosion of border protection due to further reduction in import tariffs.

Besides pressures from the future multilateral agreement, the EU sugar sector is also facing legal challenges from Australia, Brazil, and Thailand in the WTO. These countries are claiming that EU exporters of C sugar (unsubsidised) are able to export C sugar at prices below their production cost due to cross-subsidy from the main A and B quota sugar of the EU sugar regime. This WTO challenge is a significant threat to the future exports of C sugar from the EU. Moreover, the EU’s initiative to eliminate duty and quota for sugar imports from the least developed countries (LDC) is pressuring the EU to reform the sugar sector in order to avoid a major influx of sugar coming from the LDC. The EU Commission initially estimated that 2.7 million tons of sugar may enter the EU market by year 2009, but later gave a second estimation that sugar imports from the LDC would gradually increase to 900,000 tons in the medium term. Nevertheless, the EU Commission can use the endorsed safeguard measures to protect the EU sugar market from serious disturbances. The EU Commission may prevent the flood of sugar coming from the LDC after year 2009 by applying the safeguard measures enacted in the Regulation for Generalised System of Preferences and the Agreement on Safeguards under Article XIX of GATT 1994.

The EU sugar sector is facing pressures not only from the multilateral and unilateral agreements, but also from future bilateral agreements. For example, the EU-Mercosur negotiations are underway and Brazil is demanding market access to the lucrative EU sugar market. The EU Commission may extend market access for sugar in the form of expanding tariff rate quotas for Brazil or leave sugar out of the agreement (sugar is not included in the agreement between EU and South Africa).

The EU may cope with the future challenges ahead by reforming the EU sugar sector. Conservative reforms may be the combination of a reduction in the support price and a cut in the production quotas for sugar. Radical reforms may be a drastic cut in the support price for sugar combined with the abolition of sugar production quotas or the full liberalisation of the sugar sector.

References


Huan-Niemi, E. The impact of further tariff reduction on the EU sugar sector


SELOSTUS

WTO:n kauppaneuvotteluissa esitettyjen tuontitullien alentamisvaihtoehtojen vaikutukset EU:n sokerimarkkinoihin

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