# CONFERENCE OF EUROPEAN STATISTICIANS 

ECE-Eurostat-OECD Joint Consultation
on the European Comparison Programme
(Geneva, 23-25 October 2000)

On reducing the number of basic headings and products priced

## Introduction

1. This note complements Document PPP-00/P1/27 Optimisation of Number of Basic Headings and of Items prepared by Eurostat for consideration and decision by the Working Group under item 8 of the agenda. It attempts to clarify a number issues raised in the document and, more specifically, considers the possible effects of reducing the number of basic headings and items priced on Survey 2001-I: Food, Beverages and Tobacco.
2. Document PPP-00/P1/27 describes four simulations undertaken by Eurostat to test the sensitivity of survey results when:

- price and expenditure data collected under CHGS-PPP are reclassified according to COICOP-PPP;
- expenditure data are used as weights at the class level (COICOP 3) instead of at the basic heading level (COICOP 4);
- the number of items priced are reduced by 30 per cent, 50 percent and 70 per cent at the basic heading level (COICOP 4);
- the number of items priced are reduced by 30 per cent, 50 percent and 70 per cent at the class level (COICOP 3).

3. All the surveys considered cover consumer goods and services and Document PPP-00/P1/27 makes no inferences with regard to the surveys of capital goods. Moreover, the simulations cover only the nineteen countries that were working with Eurostat from the start of the 1999 round. Only one of these countries - Poland - is a transition economy. The results of the simulations for Poland vis-à-vis EU Member States could be of particular relevance to Candidate Countries.
4. The simulations are a response to the often repeated criticism that the expenditure classification is too detailed and product lists are too long. Experience shows that that many countries find it difficult to provide expenditure data at the five-digit level of the ESA 79-based classification. Because of this, countries co-ordinated by the OECD are currently only required to provide weights - and CPI sub indices - at the four-digit level. However, their selection of products takes place - or is supposed to take place - at the five-digit level to ensure a spread of products comparable to that of EU Member States. This suggests that, when the change to the ESA 95-based classification is effected, basic headings at different levels of aggregation could be identified for reporting prices, CPI or HICP sub-indices and expenditures.
5. Products lists are long and seem longer ex post when the number of splittings are taken into account. But whether they are too long is debatable given the preference for brand and model specifications, the need for each country to price at least one representative product per basic heading and the growth in the number of participating countries (from nine in 1975 to 30 in 1999). Product lists have grown not to increase product coverage at the basic heading level as suggested in Document PPP-00/P1/27, but to ensure country coverage at the basic heading level. Undoubtedly,
when all countries worked as one group, the length of the product list was counterproductive vis-àvis pre-survey work, but this has been rectified to a large extent by the breaking down of participating countries into three groups. As a result, group product lists are more balanced, smaller and more manageable. Nonetheless, it is interesting to note that though the individual group lists are smaller, the combined list contains a similar number of products as before.
6. With the convergence that is taking place in European markets and the need to use generic specifications to provide overlap between the three groups, it is timely to reconsider the feasibility of reducing the number of products priced without a serious loss of reliability. It is particular pertinent to see whether it is feasible to reduce both the number of basic headings and the number of products given that sampling theory postulates that increases in the heterogeneity of strata have to be offset by increases in the number of observations if the same level of reliability is to be obtained. If it is feasible, then, as Document PPP-00/P1/27 points out, the pricing of fewer products will enable price collectors to visit more outlets - an important consideration when pricing generic specifications. In other words, it is not the intention to collect less prices, but to price less products.

## The transition from CHGS-PPP to COICOP-PPP

7. Table 1 in Document PPP-00/P1/27 gives for seven surveys the percentage differences between the PPPs calculated using price and expenditure data classified by CHGS basic headings and the PPPs calculated using the same price and expenditure data after they have been reclassified by COICOP basic headings. The percentage differences are shown by survey by country. A weighted average of the percentage differences for each country is also provided.
8. When considering the percentage differences in Table 1 (and in the other tables in Document PPP-00/P1/27), it should be remembered that by themselves they have limited meaning. They are interrelated and have to be taken together. Thus, for example, the percentage difference for durables is $0.6 \%$ for Germany, $-1.3 \%$ for France and $-2.1 \%$ for Italy, but the actual differences are $-1.9 \%$ between Germany and France, $-2.7 \%$ between Germany and Italy and $0.8 \%$ between France and Italy. It is also important to remember that the volume indices between countries will reflect similar differences.

Table A: Distribution of percentage differences

| Survey | COICOP 4/CHGS <br> Percentage difference |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | 0.9 | $1-2.9$ | $3-4.9$ | $5+$ | Total |
|  | 10 | 7 | 1 | 1 | 19 |
| Clothing | 5 | 13 | 1 |  | 19 |
| Transport | 17 | 2 |  |  | 19 |
| Services | 3 | 9 | 4 | 3 | 19 |
| Other goods | 18 | 1 |  |  | 19 |
| Food | 4 | 11 | 3 | 1 | 19 |
| Furniture | 4 | 4 | 5 | 6 | 19 |
| Overall | 13 | 6 |  |  | 19 |

9. Table A above shows how the percentage differences in Table 1 are distributed by survey. From the distributions it can be seen that, with the exception of Transport and Other goods - surveys
for which the correspondence between CHGS and COICOP is more clear cut than it is for others, PPPs at the overall level are relatively more robust than PPPs at the survey level. The percentage differences are not indicators of quality loss. Nonetheless, during the transition period, which in effect is a protracted break in series when prices collected according to COICOP-PPP are phased in over three years and countries are not moving in unison from ESA 79 to ESA 95, it will be less misleading to users if the results of annual comparisons are published for a smaller number of analytical categories.
10. Document PPP-00/P1/27 argues that because the overall percentage differences in Table 1in particular the $2.6 \%$ for Sweden - are "implicitly accepted when replacing CHGS by COICOP" they provide "an implicitly accepted threshold for the other simulations". This is argument is flawed. PPPs for household expenditure can be calculate using either CHGS or COICOP. The two sets of PPPs will probably be different but neither set is necessarily correct. The percentage differences are nothing more than percentage differences. However, in situations such as moving from COICOP 4 to COICOP 3 or reducing the number of products priced, when statistical theory presupposes a reduction in reliability as the probable outcome, it is possible to infer - unless shown otherwise - the degree of deterioration in quality from the percentage differences.

## Moving from COICOP 4 to COICOP 3

11. The percentage differences between PPPs calculated and aggregated using COICOP basic headings (COICOP 4) and PPPs calculated and aggregated using COICOP classes (COICOP 3) are given in Table 2 in Document PPP-00/P1/27. It covers the same seven surveys as Table 1.
12. Generally the percentage differences are small when moving from COICOP 4 to COICOP 3. This is not surprising giving the structure of COICOP-PPP. Table C below shows the number of COICOP classes and basic headings by survey, it also shows the number of basic headings that are also classes. In other words, when moving from COICOP 4 to COICOP 3, the PPPs and weights for these basic headings stay the same.

Table C: COICOP classes and basic headings by survey

| Survey | Number of <br> basic <br> headings | Number of <br> classes | Number of <br> basic <br> heading <br> already <br> classes |
| :--- | :---: | :---: | :---: |
| Durables | 19 | 13 | 10 |
| Clothing | 12 | 7 | 5 |
| Transport | 8 | 4 | 3 |
| Services | 45 | 40 | 36 |
| Other goods | 27 | 20 | 14 |
| Food | 52 | 18 | 6 |
| Furniture | 11 | 5 | 2 |

13. Table C shows all surveys, except Other goods and Food, having only a small number of basic headings merged when moving from COICOP 4 to COICOP 3. In effect what the Working

Group is being asked is to reconsider are the decisions it made when it agreed COICOP-PPP. Does, for example, the Working Group still think it is necessary when calculating PPPs to have separate expenditure weights for different types of major household appliances, for men's, women's and children's clothing and footwear, for cars by engine size, for local and long-distance rail and road passenger transport and for kitchen, bedroom and dining and living room furniture? Or, does it now think that global weights for major household appliances, clothing, footwear, rail transport, road transport and furniture are sufficient? If global weights are acceptable, OECD experience suggests that the selection of products for pricing still needs to be made at a level lower than the class level.
14. Document PPP-00/P1/27 asks the Working Group to agree that Survey of 2001-I: Food, Beverages and Tobacco may be conducted according to COICOP 3. Table D below has been prepared to clarify what the Working Group is being asked to agree. It lists all the basic headings that will be merged and the classes in which they will be incorporated if COICOP 3 is applied automatically. The Working Party is invited to look at Table D prior to making a decision to see whether it is desirable to retain the identity of any of the basic headings listed. The OECD contention is not that these basic headings must be retained - no doubt the classification could be simplified further - but that their reduction should be done on a case-to-case basis.

Table D: Food, beverages and tobacco survey: Classes with more than one basic heading

| Classes | Basic headings |  |
| :--- | :---: | :--- |
| Bread and cereals | Number | Titles |
| Meat | 6 | Rice; <br> Flour and cereals; <br> Bread; <br> Other bakery products; <br> Pasta products; <br> Other cereal products. |
| Fish and seafood | 7 | Beef; <br> Veal; <br> Pork; <br> Lamb, mutton and goat; <br> Poultry; <br> Other meat and edible offal; <br> Delicatessen and other meat preparations. |
| Milk, cheese and eggs | 3 | Fresh or chilled fish and seafood; <br> Frozen fish and seafood; <br> Preserved or processed fish and seafood. |
| Oils and fats | 5 | Fresh milk; <br> Preserved milk; <br> Other milk products; <br> Cheese; <br> Eggs and egg-based products. |
| Fruit | 3 | Butter; <br> Margarine; <br> Other edible oils and fats. |
| Vegetables |  | 5 |


| Sugar, jam, honey, chocolate and confectionery | 4 | Sugar; <br> Jams marmalades and honey; <br> Confectionery, chocolate and other cocoa preparations; <br> Edible ice, ice cream and sorbet. |
| :--- | :---: | :--- |
| Coffee, tea and cocoa | 3 | Coffee; <br> Tea and other infusions; <br> Cocoa excluding cocoa preparations. |
| Mineral waters, soft drinks, fruit and vegetable juices | 3 | Mineral waters; <br> Soft drinks and concentrates; <br> Fruit and vegetable juices. |
| Wine | 2 | Wine, cider and perry; <br> Fortified and sparkling wine. |
| Tobacco | 2 | Cigarettes; <br> Other tobacco products. |

15. Table E below shows how the percentage differences in Table 2 are distributed by survey. From the distributions, it can be seen that PPPs calculated using COICOP 3 weights do not have the same reliability as those calculated using COICOP 4 weights. It can also be seen that, with the possible exception of Durables, Clothing and Services, PPPs at the survey level are less robust than those at the overall level. If the Working Group agrees to the proposal to use COICOP classes as basic headings, it would perhaps be prudent if it added a corollary to the effect that results of comparisons based on COICOP 3 should be published for a reduced set of analytical categories.

Table E: Distribution of percentage differences

| Survey | COICOP 3/COICOP 4 <br>  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | 0.9 | $1-2.9$ | $3-4.9$ | $5+$ | Total |
| Durables | 16 | 3 |  |  | 19 |
| Clothing | 13 | 6 |  |  | 19 |
| Transport | 10 | 7 | 2 |  | 19 |
| Services | 13 | 6 |  |  | 19 |
| Other goods | 7 | 7 | 3 | 2 | 19 |
| Food | 9 | 5 | 4 | 1 | 19 |
| Furniture | 8 | 9 | 2 |  | 19 |
| Overall | 14 | 4 | 1 |  | 19 |

## Reduction in products priced

15. Document PPP-00/P1/27 gives the results of these simulations in Table 14 (COICOP 4) and Table 15 (COICOP 3). Only three of the seven surveys used in the previous simulations are retained, but a second survey covering furniture has been added. This survey, Furniture 1999, is the only one where products have been classified by COICOP-PPP prior to price collection; price collections for the other surveys were all based on CHGS-PPP and the products subsequently reclassified. Three levels of reduction $30 \%, 50 \%$ and $70 \%$ are considered. There are two variants of the $70 \%$ reduction $-70 \%$-I and $70 \%$-II. The second variant - the "smart" approach - assigns points to products depending on the number of countries pricing them and the number of countries considering them to be representative.

Table F: Distribution of percentage differences

| Survey | Reduction in products priced | COICOP 4 <br> Percentage difference |  |  |  |  | $\text { COICOP } 3$ <br> Percentage difference |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 0.9 | 1-2.9 | 3-4.9 | 5+ | Total | 0.9 | 1-2.9 | 3-4.9 | 5+ | Total |
| Other goods 1997 | 30\% | 17 | 2 |  |  | 19 | 19 |  |  |  | 19 |
|  | 50\% | 4 | 13 | 1 | 1 | 19 | 6 | 8 | 4 | 1 | 19 |
|  | 70\%-I | 7 | 6 | 3 | 3 | 19 | 3 | 11 | 3 | 2 | 19 |
|  | 70\%-II | 4 | 7 | 5 | 3 | 19 | 5 | 6 | 5 | 3 | 19 |
| Furniture 1997 | 30\% | 12 | 6 | 1 |  | 19 | 12 | 7 |  |  | 19 |
|  | 50\% | 11 | 4 | 1 | 3 | 19 | 8 | 6 | 4 | 1 | 19 |
|  | 70\%-I |  | 4 | 6 | 9 | 19 |  | 6 | 4 | 9 | 19 |
|  | 70\%-II | 5 | 10 | 4 |  | 19 | 7 | 10 | 1 | 1 | 19 |
| $\begin{gathered} \text { Furniture } \\ 1999 \end{gathered}$ | 30\% | 4 | 14 | 1 |  | 19 | 14 | 5 |  |  | 19 |
|  | 50\% | 6 | 7 | 5 | 1 | 19 | 6 | 7 | 6 |  | 19 |
|  | 70\%-I | 2 | 7 | 3 | 7 | 19 | 4 | 5 | 1 | 9 | 19 |
|  | 70\%-II | 7 | 8 | 4 |  | 19 | 13 | 6 |  |  | 19 |
| Clothing 1997 | 30\% | 11 | 8 |  |  | 19 | 12 | 7 |  |  | 19 |
|  | 50\% | 7 | 11 | 1 |  | 19 | 8 | 10 | 1 |  | 19 |
|  | 70\%-I | 3 | 8 | 4 | 4 | 19 | 5 | 6 | 6 | 2 | 19 |
|  | 70\%-II | 7 | 8 | 1 | 3 | 19 | 8 | 8 | 1 | 2 | 19 |

16. Table 14 and Table 15 show the percentage differences between PPPs calculated using all products priced and COICOP 4 weights and PPPs calculated after each reduction in products using respectively COICOP 4 weights and COICOP 3 weights. The percentage differences in Table 15, therefore, show the "net" differences, that is the differences arising from both a reduction in the number of products priced and a reduction in the number of basic headings.
17. Table F on the previous page shows how the percentage differences in Tables 14 and 15 are distributed by survey at each level of reduction. It is clear from these distributions that an ex post reduction of $30 \%$ in the number of products priced does not reduce the reliability of the PPPs noticeably. It is also clear that there is a drift in reliability. It gets progressively worse as the reductions go from $30 \%$ to $50 \%$ to $70 \%-\mathrm{II}$ (smart) to $70 \%-\mathrm{I}$ (non-smart). This is so at both COICOP levels.
18. Probably the most favourable results are obtained with Other goods at COICOP 3. This can be explained by the distribution of weights and products among the survey's basic headings and by the reduction methodology employed. Table G below, which is based on Table 4 of Document PPP$00 / \mathrm{P} 1 / 27$, shows the weight, the number of products priced and the percentage of items retained at each level of reduction for the 18 basic heading covered by the survey. It is clear from the table that the reduction in products has to be done at the overall level and not uniformly across basic headings - if it were not done this way it would soon prove impossible to calculate PPPs for some basic headings. Nonetheless, as a result, and this is probably specific to this survey, the basic headings with large weights also have small numbers of products and, therefore, are relatively untouched by the reductions.

Table G: Basic headings for Other goods by expenditure weight, total number of items priced and per cent of items retained at each level of reduction

| COICOP 4 (Basic heading level) |  |  | $\begin{aligned} & \text { Items } \\ & 100 \% \end{aligned}$ | Per cent of items retained at each level of reduction |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Code | Name | Weight |  | 30\% | 50\% | 70\% |
| 05.6.1.1 | Household cleaning supplies | 4.49 | 74 | 57 | 39 | 18 |
| 05.6.1.2 | Other non-durable household articles | 2.72 | 42 | 71 | 43 | 21 |
| 05.6.2.2 | Laundry and dry-cleaning | 1.54 | 5 | 100 | 100 | 80 |
| 09.5.4.0 | Stationery and drawing materials | 1.61 | 22 | 82 | 59 | 32 |
| 11.1.1.1 | Restaurant services | 19.38 | 6 | 100 | 83 | 50 |
| 11.1.1.2 | Pubs. Bars, cafes, tea rooms and the like | 15.49 | 8 | 100 | 63 | 50 |
| 11.1.1.3 | Other catering services | 5.13 | 3 | 100 | 100 | 100 |
| 11.1.2.0 | Canteens | 3.71 | 3 | 100 | 100 | 100 |
| 11.2.0.1 | Hotels, boarding houses and the like | 9.14 | 7 | 100 | 100 | 57 |
| 11.2.0.2 | Other accommodation services | 2.25 | 4 | 100 | 100 | 100 |
| 12.1.1.1 | Services of hairdressers etc. for men | 1.58 | 3 | 100 | 100 | 100 |
| 12.1.1.2 | Services of hairdressers etc. for women | 3.96 | 3 | 100 | 100 | 100 |
| 12.1.2.0 | Electric appliances for personal care | 0.35 | 22 | 82 | 55 | 27 |
| 12.1.3.0 | Other appliances etc. for personal care | 7.70 | 83 | 52 | 36 | 17 |
| 12.3.1.0 | Jewellery, clocks and watches | 5.11 | 12 | 100 | 75 | 50 |
| 12.3.2.1 | Travel goods etc. | 2.08 | 5 | 100 | 100 | 80 |
| 12.3.2.2 | Other personal effectsn.e.c. | 1.04 | 33 | 67 | 39 | 24 |
| 12.7.0.0 | Other services | 12.75 | 8 | 100 | 63 | 63 |
|  | Total | 100.00 | 343 | 70 | 50 | 30 |

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The situation is the similar at the class level as Table H overleaf shows. One conclusion to be drawn from Table G and Table H is that, while it makes sense to reduce the number products priced for a basic heading with a small weight, it also makes sense to increase the number of products priced for a basic heading with a large weight, especially if it is not very homogeneous and cannot be broken down further. In other words, a case-by-case approach is required.

Table H: Classes for Other goods by expenditure weight, total number of items priced and per cent of items retained at each level of reduction

| COICOP 3 (Class level) |  |  | $\begin{aligned} & \text { Items } \\ & 100 \% \end{aligned}$ | Per cent of items retained at each level of reduction |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Code | Name | Weight |  | 30\% | 50\% | 70\% |
| 05.6.1 | Non-durable house goods | 7.21 | 116 | 62 | 41 | 19 |
| 05.6.2 | Domestic and household services | 1.54 | 5 | 100 | 100 | 80 |
| 09.5.4 | Stationery and drawing materials | 1.61 | 22 | 82 | 59 | 32 |
| 11.1.1 | Restaurants, cafes and the like | 40.00 | 17 | 100 | 76 | 59 |
| 11.1.2 | Canteens | 3.71 | 3 | 100 | 100 | 100 |
| 11.2.0 | Accommodation services | 11.39 | 11 | 100 | 100 | 73 |
| 12.1.1 | Services of hairdressers etc. | 5.54 | 6 | 100 | 100 | 100 |
| 12.1.2 | Electric appliances for personal care | 0.35 | 22 | 82 | 55 | 27 |
| 12.1.3 | Other appliances etc. for personal care | 7.70 | 83 | 52 | 36 | 17 |
| 12.3.1 | Jewellery, clocks and watches | 5.11 | 12 | 100 | 75 | 50 |
| 12.3.2 | Other personal effects | 3.12 | 38 | 71 | 47 | 32 |
| 12.7.0 | Other services | 12.75 | 8 | 100 | 63 | 63 |
|  |  | 100.00 | 343 | 70 | 50 | 30 |

## Food, beverages and tobacco

20. To assist the Working group to come to a decision vis-à-vis the reduction of basic headings and the number of products for Survey 2001-I: Food, Beverages and Tobacco, the OECD has made a number of experimental calculations using the price and expenditure data for food, beverages and tobacco that were provided for the 1996 comparison by the same 19 countries covered in the Eurostat simulations. The survey is also of interest in its own right. Not only does it cover a large number of products and basic headings, it is a survey where consumption patterns vary considerably between countries.
21. The products and expenditures were classified according to CHGS-PPP basic headings and they were left as such as it was not considered necessary for the purpose of the exercise to reclassify them according to COICOP-PPP. Originally the product list consisted of 912 items. It was successively reduced by:

- $20 \%$ by removing all products priced by less than four countries;
- $40 \%$ by removing all products priced by less than eight countries;
- $60 \%$ by removing all products prices by less than 13 countries;
- $75 \%$ by removing all products priced by less than 16 countries.

22. The effect on individual basic headings varied (see Annex Table 1). For some the impact of the reductions was significant, but for others, even with the $75 \%$ reduction, it was noticeably less so. With each reduction it became successively more difficult to calculate PPPs for all basic headings and beyond the $75 \%$ reduction it became impossible. Even with the $60 \%$ reduction, there were many pairs of countries for which a Fisher PPP could not be calculated. Product lists are designed to be equi-representative. The removal of products priced by only a few countries can negate this making it impossible to calculate PPPs for the countries concerned.
23. The 1996 results for food, beverages and tobacco were published using 13 analytical categories. The percentage differences between the original PPPs for these analytical categories (that is the PPPs calculated using all price data) and the PPPs obtained after each reduction in the number of products priced are shown in Annex Table 2. From this table it can be seen that a 20\% or even a $40 \%$ ex post reduction has little of no affect on the PPPs, but that ex post reductions of $60 \%$ or more do, though more limited at the overall survey level.
24. The 53 basic headings for food, beverages and tobacco aggregate to 14 classes. A second set of calculations was made using these classes as basic headings. The results of these calculations are presented in Annex Tables 3, 4 and 5:

- Annex Table 3 shows the percentage differences between the original PPPs for the analytical categories and the PPPs obtained when class expenditures are used as weights and there is no reduction in the number of products priced.
- Annex Table 4 shows the percentage differences between the PPPs for the analytical categories obtained using the class expenditures as weights and the PPPs obtained after each reduction. These percentage differences show just the effects of the reductions.
- Annex Table 5 shows the percentage differences between the original PPPs for the analytical categories and the PPPs obtained after each reduction in the number of products when class expenditures are used as weights. These percentage differences are "net" differences showing the differences arising from both a reduction in the number of products priced and a reduction in the number of basic headings.

25. The percentage differences in Annex Table 3 show that all analytical categories, including those at the aggregate level such as Food, beverages and tobacco and Food, to be adversely affected when PPPs are calculated using class expenditures as weights. The lower the level of aggregation the greater are the differences. The impact of the reduction in basic headings is clearly significant indicating that there are important differences in price levels and weights between basic headings within analytical categories and that these are lost when the calculation of PPPs undertaken at the class level.
26. The percentage differences in Annex Table 4 confirm what has already been shown in Annex Table 2, namely, that a $20 \%$ or even a $40 \%$ ex post reduction has little of no affect on the PPPs, but that ex post reductions of $60 \%$ or more do. From this it can be deduced when looking at the percentage differences in Annex Table 5 that the reduction of the number of basic headings has a higher impact than the reduction of number of prices. It can also be seen that for Food, Beverages and Tobacco there is not compensatory relationship between the two.

## Conclusions

27. The OECD has drawn the following conclusions from its own simulations and those of Eurostat:

- Ex post reductions in the number of products priced of between 70 and $80 \%$ can be made without an appreciable loss of reliability in the PPPs of most analytical categories.
- The simulations do not show how to effect an ex ante reduction, but they do show that it is not just a simple matter of selecting products that all or most participating countries can price. The selection of products should be done in a manner that ensures equirepresentativeness. Ex post splittings are an essential means of obtaining equirepresentativeness.
- Reductions in the number of basic headings should not be achieved by automatically moving up from one level of aggregation to the next level. Reductions should be considered basic heading by basic heading, survey by survey. More specifically, the reduction in the basic headings for Survey 2001-I: Food, Beverages and Tobacco should be approached with caution.
- Reductions in products priced and reductions in basic headings are not necessarily complementary aims. Neither set of simulations have demonstrated that it is possible to increase the heterogeneity - and weight - of a basic heading and, at the same time, reduce the number of products priced for the basic heading without an appreciable loss of reliability.
- Assessing the effects of reductions in either the number of product priced or the number of basic headings should be done at the analytical category level and not only at the overall survey level. Only then can it be decided whether or not the loss in reliability resulting from these reductions requires results to be published at more aggregate levels.

28. Finally, it should be remembered that, except for Poland, the Candidate Countries were not included in the simulations. Their markets may be converging with those of EU Member States, but their consumption patterns are still different, both in terms of representative products and expenditure.

Annex Table 1: Basic headings for Food, beverages and tobacco by expenditure weight, total number of items priced and per cent of items retained at each level of reduction

| CHGS Basic heading |  |  | $\begin{aligned} & \text { Items } \\ & 100 \% \end{aligned}$ | Per cent of items retained at each level of reduction |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Code | Name | Weight |  | 20 \% | 40 \% | 60 \% | 75\% |
| 111.1 | Rice | 0.4 | 10 | 80 | 80 | 70 | 60 |
| 111.2 | Flour and other cereals | 0.5 | 17 | 82 | 47 | 24 | 24 |
| 111.3 | Bread | 5.2 | 39 | 79 | 51 | 28 | 18 |
| 111.4 | Other bakery products | 3.4 | 41 | 85 | 61 | 54 | 24 |
| 111.5 | Macaroni, spaghetti and similar products | 0.8 | 15 | 100 | 73 | 53 | 20 |
| 111.6 | Other cereal products | 0.6 | 18 | 72 | 44 | 17 | 17 |
| 112.1 | Fresh, frozen and chilled beef | 3.8 | 15 | 100 | 93 | 73 | 67 |
| 112.2 | Fresh, frozen and chilled veal | 0.9 | 3 | 100 | 100 | 100 | 67 |
| 112.3 | Fresh, frozen and chilled pork | 3.2 | 6 | 100 | 100 | 100 | 100 |
| 112.4 | Fresh, frozen and chilled lamb, mutton and goat | 1.0 | 7 | 100 | 86 | 57 | 14 |
| 112.5 | Fresh, frozen and chilled poultry | 2.3 | 10 | 60 | 40 | 10 | 10 |
| 112.6 | Delicatessen | 5.3 | 14 | 100 | 93 | 64 | 36 |
| 112.7 | Other meat preparations, extracts, etc. | 1.7 | 20 | 85 | 65 | 30 | 15 |
| 112.8 | Other fresh, frozen and chilled meat | 0.9 | 9 | 89 | 89 | 56 | 44 |
| 113.1 | Fresh, frozen or deep-frozen fish | 2.2 | 37 | 89 | 59 | 32 | 16 |
| 113.2 | Dried or smoked fish | 0.6 | 10 | 90 | 90 | 40 | 10 |
| 113.3 | Fresh, frozen or deep-frozen sea food | 0.6 | 10 | 80 | 70 | 30 | 10 |
| 113.4 | Preserved processed fish and sea food | 0.8 | 17 | 59 | 53 | 35 | 18 |
| 114.1 | Fresh pasteurised milk and sterilised milks | 3.7 | 7 | 86 | 86 | 71 | 29 |
| 114.2 | Condensed, evaporated and powdered milks | 0.4 | 12 | 83 | 50 | 33 | 33 |
| 114.3 | Cream, yoghourt and other similar milk products | 2.0 | 27 | 59 | 26 | 19 | 4 |
| 114.4 | Processed and unprocessed cheese | 3.8 | 42 | 81 | 62 | 38 | 17 |
| 114.5 | Eggs | 1.2 | 3 | 67 | 67 | 67 | 67 |
| 115.1 | Butter | 0.9 | 4 | 75 | 75 | 50 | 25 |
| 115.2 | Margarine | 0.7 | 6 | 100 | 83 | 67 | 17 |
| 115.3 | Edible oils | 1.1 | 7 | 100 | 86 | 71 | 71 |
| 115.4 | Other animal and vegetable fats | 0.2 | 9 | 67 | 44 | 22 | 22 |
| 116.1 | Fresh fruit | 4.5 | 32 | 100 | 94 | 72 | 50 |
| 116.2 | Dried fruit and nuts | 0.4 | 23 | 78 | 52 | 35 | 13 |
| 116.3 | Frozen and preserved fruit and fruit juice | 1.0 | 19 | 79 | 68 | 53 | 32 |
| 116.4 | Fresh vegetables | 4.0 | 31 | 100 | 94 | 71 | 52 |
| 116.5 | Dried vegetables | 0.2 | 5 | 80 | 80 | 80 | 60 |
| 116.6 | Frozen vegetables | 0.3 | 31 | 71 | 52 | 19 | 3 |
| 116.7 | Preserved vegetables, vegetable juices and soups | 1.0 | 43 | 72 | 53 | 33 | 14 |
| 117.1 | Potatoes and other tuber vegetables | 1.5 | 8 | 88 | 75 | 25 | 13 |
| 117.2 | Potato products | 0.6 | 13 | 77 | 62 | 46 | 23 |
| 118.1 | Raw and refined sugar | 0.8 | 7 | 71 | 71 | 43 | 43 |
| 119.1 | Coffee and instant coffee | 1.8 | 10 | 100 | 100 | 70 | 40 |
| 119.2 | Tea and other infusions | 0.3 | 13 | 85 | 54 | 15 | 15 |
| 119.3 | Chocolate and other cocoa preparations | 0.1 | 2 | 50 | 50 | 50 | 50 |
| 1110.1 | Jam, jellies, marmalades, honey and syrups | 0.6 | 13 | 85 | 54 | 38 | 15 |
| 1110.2 | Chocolate and other cocoa preparations | 1.9 | 22 | 68 | 55 | 27 | 9 |
| 1110.3 | Confectionery | 1.9 | 10 | 90 | 60 | 30 | 20 |
| 1110.4 | Edible ice and ice cream | 1.2 | 7 | 86 | 57 | 14 | 14 |
| 1110.5 | Salt, spices, sauces and other condiments | 2.2 | 35 | 74 | 51 | 37 | 23 |
| 121.1 | Mineral water | 0.7 | 13 | 62 | 54 | 23 | 23 |
| 121.2 | Other soft drinks n.e.c | 2.9 | 27 | 85 | 52 | 33 | 15 |
| 131.1 | Spirits and liqueurs | 3.3 | 39 | 77 | 69 | 49 | 33 |
| 131.2 | Wine (not fortified or sparkling) | 4.2 | 22 | 82 | 68 | 50 | 23 |
| 131.3 | Beer | 4.1 | 38 | 84 | 39 | 11 | 3 |
| 131.4 | Other wines and alcoholic beverages | 0.9 | 12 | 92 | 83 | 75 | 50 |
| 141.1 | Cigarettes | 10.2 | 10 | 100 | 100 | 90 | 60 |
| 142.1 | Other tobacco products | 1.4 | 12 | 75 | 58 | 25 | 17 |
|  | Total | 100.0 | 912 | 82 | 63 | 41 | 24 |

Annex Table 2: Distribution of percentage differences - Reduction of prices at CHGS basic heading level

| Analytical categories 75\% reduction | GER | FRA | ITA | NLD | BEL | LUX | UKD | IRE | DNK | GRC | ESP | PRT | AUT | SWI | SWE | FIN | ICE | NOR | POL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 Food, beverages and tobacco | -2.1 | -0.5 | -0.6 | 0.7 | 0.4 | -0.2 | -1.4 | 0.3 | 0.1 | 0.6 | -0.7 | 0.6 | -0.6 | 1.8 | 0.2 | 0.2 | 2.4 | 0.2 | -1.2 |
| 3 Food | -2.4 | 0.0 | -0.1 | 0.7 | 1.1 | 0.1 | -1.9 | 1.3 | 0.3 | 1.0 | -0.9 | 0.4 | -0.4 | 1.9 | 0.1 | -1.3 | 1.0 | 0.6 | -1.5 |
| 4 Bread and cereals | 1.0 | -2.5 | -1.0 | 11.3 | 1.0 | -3.1 | 2.3 | 4.4 | 8.1 | -3.8 | -5.8 | -2.0 | -0.4 | -0.1 | -6.2 | -3.9 | -1.2 | -2.0 | 5.9 |
| 5 Meat | -1.5 | 0.4 | 1.2 | -1.7 | 3.0 | 2.1 | -1.3 | 3.2 | 0.3 | 0.2 | -2.6 | -1.4 | 0.1 | 2.8 | 1.4 | 1.3 | 2.0 | 2.2 | -10.8 |
| 6 Fish | -5.6 | 1.2 | 5.2 | 2.0 | 3.0 | 6.6 | -1.9 | 4.9 | 0.0 | 2.5 | 5.5 | 1.3 | -2.9 | -2.4 | -1.9 | -10.5 | -3.7 | -1.1 | -0.6 |
| 7 Milk, cheese and eggs | -2.5 | -1.1 | -4.5 | -0.4 | 1.1 | -2.4 | -4.9 | -0.4 | -4.4 | 3.0 | 3.1 | 0.4 | -0.8 | 7.6 | 2.9 | -0.6 | 11.3 | -1.8 | -4.0 |
| 8 Oils and fats | -4.1 | 1.0 | 0.6 | 9.5 | 2.3 | 2.3 | 2.8 | 4.1 | 3.1 | -1.9 | -1.4 | -1.5 | -1.1 | 1.8 | 0.0 | -5.3 | -3.8 | -5.9 | -1.3 |
| 9 Fruit, vegetables and potatoes | -0.2 | -1.5 | 0.4 | 0.7 | -1.3 | 0.2 | -1.6 | 2.2 | -1.2 | 1.7 | -0.6 | 4.6 | -1.6 | -1.9 | 0.4 | -2.0 | -1.0 | 0.5 | 2.5 |
| 10 Other food | -5.7 | 4.1 | 0.3 | -4.7 | 0.1 | 0.3 | -4.7 | -5.5 | 0.5 | 2.6 | -0.8 | -1.5 | 1.5 | 2.8 | 2.6 | 2.2 | -2.1 | 4.0 | 4.8 |
| 11 Beverages | -1.1 | -3.5 | -1.5 | 1.2 | -4.1 | -2.9 | -0.9 | -0.8 | 0.2 | 0.7 | -7.4 | 1.9 | -3.2 | 2.3 | 1.4 | 6.4 | 9.1 | 2.6 | 0.9 |
| 12 Non-alcoholic beverages | -3.4 | 24.3 | 7.5 | 0.4 | 4.1 | -0.1 | 1.2 | 3.8 | 0.5 | -2.1 | -23.0 | -3.8 | -1.2 | 0.6 | -2.3 | -3.8 | 3.4 | -0.6 | 1.0 |
| 13 Alcoholic beverages | -0.4 | -9.2 | -4.5 | 1.5 | -6.7 | -3.5 | -1.4 | -2.3 | 0.1 | 1.8 | -1.7 | 2.8 | -3.9 | 2.8 | 2.2 | 8.5 | 11.6 | 3.8 | 0.8 |
| 14 Tobacco | -2.8 | 2.2 | -3.3 | -0.4 | 1.4 | 0.9 | 0.9 | -2.4 | -1.3 | -1.7 | 8.4 | 0.5 | 2.2 | 0.1 | -0.8 | 0.6 | 1.6 | -5.2 | -0.2 |
| $\mathbf{6 0 \%}$ reduction |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 Food, beverages and tobacco | -1.2 | 0.3 | 0.0 | -0.6 | 0.0 | -0.8 | 0.1 | 0.8 | -0.3 | 1.2 | -0.4 | 0.0 | -0.9 | 0.8 | 0.1 | 0.0 | 1.0 | 0.4 | -0.5 |
| 3 Food | -1.1 | 0.0 | -0.2 | -1.2 | 0.0 | -0.5 | -0.9 | 1.0 | -0.6 | 1.3 | 0.0 | 0.4 | -0.3 | 1.5 | 0.3 | -0.2 | 0.1 | 0.9 | -0.4 |
| 4 Bread and cereals | -3.3 | -0.3 | 0.2 | 0.5 | -0.2 | -2.4 | 3.1 | 3.0 | -1.1 | 0.1 | -0.1 | -0.4 | -0.6 | 0.5 | -0.2 | -3.3 | 0.0 | 0.0 | 5.0 |
| 5 Meat | -0.1 | 1.4 | -0.3 | -0.6 | 0.6 | 0.4 | -0.6 | 1.5 | -0.2 | -0.9 | -1.4 | -0.8 | 0.3 | 3.0 | 0.2 | 1.0 | 1.1 | 1.6 | -5.8 |
| 6 Fish | -2.4 | -0.5 | -0.7 | -0.9 | -1.3 | 0.6 | -3.9 | 0.9 | -4.3 | 4.4 | 0.8 | 0.9 | -1.1 | 1.2 | 1.1 | -1.8 | 2.5 | -0.4 | 5.5 |
| 7 Milk, cheese and eggs | -1.0 | -2.3 | -0.3 | -1.7 | 0.9 | -1.9 | -0.3 | 1.5 | -3.6 | 3.7 | 1.7 | 1.0 | -1.9 | 2.8 | -1.1 | 1.6 | 0.2 | 0.1 | 0.9 |
| 8 Oils and fats | -1.4 | 1.1 | -0.4 | 0.9 | 0.8 | 0.3 | 0.0 | 0.7 | 0.8 | -1.0 | 0.2 | 1.1 | 0.1 | -1.8 | -0.2 | -0.3 | -0.3 | 0.3 | -0.7 |
| 9 Fruit, vegetables and potatoes | -0.7 | -1.1 | 0.3 | -0.1 | -1.1 | -0.7 | -0.3 | 2.8 | -0.5 | 1.7 | -0.5 | 1.9 | -0.9 | 0.2 | -0.2 | -0.9 | -0.8 | 0.7 | 0.2 |
| 10 Other food | -0.4 | 1.0 | -0.8 | -4.2 | 0.4 | 1.4 | -4.5 | -4.2 | 2.4 | 1.4 | 1.1 | -0.2 | 1.2 | 1.2 | 2.4 | 0.6 | -1.2 | 1.7 | 1.3 |
| 11 Beverages | -1.7 | 2.3 | 1.6 | 1.4 | -1.3 | -3.1 | 1.4 | 1.9 | 0.6 | 1.9 | -3.3 | -1.5 | -3.5 | -1.8 | 0.0 | 0.7 | 5.0 | 0.8 | -1.1 |
| 12 Non-alcoholic beverages | -4.1 | 17.4 | 6.4 | 1.5 | 4.1 | -0.4 | 0.4 | -0.7 | 0.2 | -1.6 | -9.6 | -3.0 | -4.3 | 0.2 | -3.3 | -2.6 | 0.3 | -1.4 | 3.1 |
| 13 Alcoholic beverages | -0.9 | -0.9 | -0.2 | 1.4 | -3.2 | -3.7 | 1.6 | 2.7 | 0.7 | 3.2 | -1.4 | -1.6 | -3.3 | -2.4 | 0.7 | 1.3 | 7.5 | 1.5 | -2.3 |
| 14 Tobacco | -0.6 | 0.1 | -0.4 | 0.6 | 1.6 | 0.1 | 2.5 | -1.3 | 1.2 | -0.3 | -0.6 | -0.4 | -1.0 | 0.1 | -0.3 | 0.6 | 0.8 | -3.0 | 0.4 |

Annex Table 2 (contd.)

| Analytical categories 40\% reduction | GER | FRA | ITA | NLD | BEL | LUX | UKD | IRE | DNK | GRC | ESP | PRT | AUT | SWI | SWE | FIN | ICE | NOR | POL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 Food, beverages and tobacco | -0.3 | 0.1 | 0.0 | -0.2 | 0.0 | -0.1 | 0.1 | 0.0 | -0.2 | 0.1 | 0.1 | -0.1 | -0.2 | 0.2 | 0.1 | -0.3 | 0.3 | 0.3 | 0.0 |
| 3 Food | -0.2 | 0.2 | 0.0 | -0.2 | 0.0 | -0.1 | 0.1 | 0.1 | -0.5 | 0.1 | 0.2 | 0.1 | -0.1 | 0.3 | 0.0 | -0.5 | 0.2 | 0.2 | 0.1 |
| 4 Bread and cereals | -0.5 | 0.8 | 1.9 | -0.3 | -0.2 | 0.2 | 0.5 | -0.1 | -0.9 | -0.7 | 0.2 | 0.6 | -0.2 | 0.7 | 0.0 | -2.6 | 0.0 | -0.5 | 1.2 |
| 5 Meat | -0.1 | -0.1 | 0.0 | 0.0 | -0.2 | 0.0 | 0.9 | 0.4 | -0.2 | 0.0 | -0.3 | -0.3 | 0.3 | 0.5 | 0.0 | -0.4 | 0.1 | 0.3 | -0.7 |
| 6 Fish | 0.4 | -0.5 | -0.7 | 0.2 | 0.2 | 0.0 | -0.6 | -0.6 | -0.1 | -0.3 | -0.1 | -0.1 | 0.3 | 1.0 | 0.1 | -0.1 | 0.4 | -0.2 | 0.8 |
| 7 Milk, cheese and eggs | -0.2 | 0.4 | -0.3 | 0.8 | -0.1 | -0.7 | -0.9 | 0.4 | -1.6 | 0.5 | 1.0 | 0.0 | -0.2 | 0.0 | -0.1 | -0.2 | 1.4 | 0.1 | -0.3 |
| 8 Oils and fats | -0.3 | 0.1 | -0.1 | -0.1 | 0.4 | -0.2 | 0.1 | 0.0 | 0.0 | -0.1 | 0.0 | 0.0 | -0.3 | -0.3 | 0.1 | 0.4 | 0.0 | -0.4 | 0.7 |
| 9 Fruit, vegetables and potatoes | -0.3 | -0.6 | -0.1 | -0.2 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.5 | 0.0 | 0.5 | -0.3 | 0.0 | 0.2 | -0.2 | -0.1 | 0.0 | 0.2 |
| 10 Other food | -0.1 | 1.0 | -0.8 | -1.2 | 0.5 | 0.1 | -1.0 | 0.0 | 0.0 | 0.0 | 1.0 | -0.4 | 0.0 | 0.4 | -0.1 | 0.1 | -0.5 | 0.8 | 0.3 |
| 11 Beverages | -0.3 | 0.0 | -0.3 | 0.2 | -0.1 | 0.0 | 0.3 | 0.5 | 0.3 | -0.3 | -1.0 | -1.2 | -0.7 | 0.1 | 0.3 | 0.0 | 1.0 | 1.3 | -0.2 |
| 12 Non-alcoholic beverages | 0.2 | 0.6 | 0.0 | 0.0 | 0.6 | -0.1 | -0.6 | 0.0 | -0.2 | -0.3 | -2.2 | 0.4 | -0.1 | 0.1 | 0.0 | 0.5 | 1.3 | 0.0 | -0.2 |
| 13 Alcoholic beverages | -0.4 | -0.2 | -0.5 | 0.2 | -0.3 | 0.0 | 0.5 | 0.7 | 0.5 | -0.3 | -0.7 | -1.7 | -1.0 | 0.1 | 0.4 | -0.1 | 0.9 | 2.1 | -0.2 |
| 14 Tobacco | -0.2 | 0.0 | 0.0 | -0.3 | 0.1 | 0.0 | 0.1 | -1.1 | 0.5 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.6 | 0.1 | -0.1 | -0.1 |
| $\mathbf{2 0 \%}$ reduction |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 Food, beverages and tobacco | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | 0.1 | 0.0 | -0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| 3 Food | 0.0 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | -0.1 | 0.0 | 0.0 | -0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| 4 Bread and cereals | 0.1 | 0.0 | 0.1 | 0.0 | -0.1 | 0.0 | 0.0 | -0.1 | -0.2 | -0.1 | 0.1 | 0.0 | -0.2 | -0.1 | 0.0 | 0.2 | 0.0 | 0.0 | 0.3 |
| 5 Meat | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.3 | 0.1 | -0.1 | 0.0 | -0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 |
| 6 Fish | -0.1 | -0.3 | 0.0 | 0.2 | 0.1 | 0.1 | -0.4 | -0.1 | 0.0 | -0.1 | 0.1 | -0.1 | 0.0 | 0.2 | 0.0 | -0.1 | 0.0 | -0.1 | 0.5 |
| 7 Milk, cheese and eggs | 0.1 | -0.1 | 0.0 | 0.0 | 0.0 | -0.2 | -0.3 | 0.2 | -0.2 | 0.2 | 0.1 | -0.3 | -0.1 | 0.7 | 0.0 | 0.0 | 0.2 | -0.1 | -0.1 |
| 8 Oils and fats | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| 9 Fruit, vegetables and potatoes | -0.1 | -0.2 | -0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 |
| 10 Other food | 0.0 | 0.0 | 0.0 | -0.1 | 0.1 | 0.1 | 0.1 | -0.3 | 0.2 | 0.0 | 0.1 | -0.3 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| 11 Beverages | -0.2 | 0.0 | -0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | -0.3 | -0.2 | 0.0 | 0.2 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 |
| 12 Non-alcoholic beverages | 0.1 | 0.1 | -0.1 | 0.0 | 0.4 | -0.2 | 0.0 | 0.2 | 0.0 | 0.0 | -0.5 | -0.1 | 0.0 | 0.1 | -0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| 13 Alcoholic beverages | -0.3 | 0.0 | -0.2 | 0.1 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.2 | -0.2 | -0.2 | 0.0 | 0.2 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 |
| 14 Tobacco | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | 0.0 | 0.1 | -1.1 | 0.9 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | -0.1 | 0.0 |

Annex Table 3: Distribution of percentage differences - Reduction of basic headings

| Analytical categories | GER | FRA | ITA | NLD | BEL | LUX | UKD | IRE | DNK | GRC | ESP | PRT | AUT | SWI | SWE | FIN | ICE | NOR | POL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 Food, beverages and tobacco | 0.7 | -2.3 | -0.5 | -0.4 | -1.0 | -1.4 | -0.7 | -0.5 | 1.6 | 2.1 | 2.8 | 4.5 | 0.2 | -2.0 | 1.1 | 0.6 | -4.6 | -1.0 | 1.2 |
| 3 Food | 0.0 | -3.8 | -0.2 | -0.6 | -0.9 | -0.9 | 0.7 | 0.3 | -0.2 | 4.0 | 3.8 | 5.2 | 0.1 | -4.0 | 1.9 | 1.6 | -6.7 | -1.2 | 1.6 |
| 4 Bread and cereals | -2.2 | -9.2 | 0.3 | -0.4 | -1.2 | -0.6 | 2.8 | 3.4 | -2.3 | 3.6 | -0.6 | 8.2 | 0.9 | -9.0 | 3.9 | -0.5 | -7.1 | -1.6 | 14.3 |
| 5 Meat | 5.5 | -0.4 | -2.6 | 0.1 | 0.2 | -0.1 | 5.4 | 1.3 | -0.3 | 3.5 | 7.3 | 8.4 | -1.2 | 0.2 | -3.7 | -2.1 | -12.0 | -2.5 | -5.0 |
| 6 Fish | -4.0 | -0.2 | 3.5 | 1.3 | -0.5 | -3.3 | 1.3 | -3.0 | 1.4 | 1.0 | 0.2 | 4.7 | -3.5 | -10.0 | 0.5 | 2.2 | 1.6 | 2.0 | 5.9 |
| 7 Milk, cheese and eggs | 1.4 | -3.4 | 2.1 | 0.9 | -3.2 | -2.0 | -1.9 | -4.2 | 4.2 | -6.0 | 3.5 | 5.7 | -0.3 | -4.0 | 1.1 | 0.2 | 2.1 | -0.6 | 5.3 |
| 8 Oils and fats | 2.5 | -2.4 | -1.6 | -3.9 | -7.4 | -5.1 | -9.9 | -5.5 | 3.2 | -6.6 | 4.0 | -3.7 | -6.0 | -12.5 | 16.5 | 17.1 | 20.9 | 0.3 | 7.4 |
| 9 Fruit, vegetables and potatoes | -3.1 | -7.7 | 4.1 | -1.8 | 0.9 | -1.1 | -5.7 | -0.6 | -2.8 | 15.6 | 8.6 | 4.3 | 0.6 | -2.6 | 1.5 | 3.6 | -10.9 | -1.9 | 1.7 |
| 10 Other food | -1.6 | -1.2 | -7.7 | -0.9 | -0.1 | 2.0 | 4.2 | 2.7 | -0.2 | 2.1 | -3.8 | -4.1 | 5.0 | -3.1 | 7.4 | 7.0 | -5.1 | 2.0 | -2.8 |
| 11 Beverages | 3.1 | 3.8 | -2.7 | 0.0 | -2.3 | -3.1 | -4.1 | -3.7 | 9.8 | -3.7 | 0.6 | 4.6 | 1.1 | 5.9 | -2.3 | -2.9 | 1.3 | -2.1 | -1.8 |
| 12 Non-alcoholic beverages | -7.0 | -2.3 | 2.0 | -0.1 | -1.6 | -1.6 | 1.2 | 0.0 | 0.1 | 1.3 | -0.6 | -0.1 | 4.7 | -0.7 | 0.1 | 1.1 | 4.4 | 2.0 | -2.0 |
| 13 Alcoholic beverages | 5.8 | 5.2 | -4.3 | 0.2 | -2.6 | -3.4 | -5.2 | -4.6 | 12.6 | -5.1 | 1.0 | 5.3 | 0.5 | 8.0 | -2.9 | -3.6 | 1.1 | -4.2 | -1.5 |
| 14 Tobacco | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Annex Table 4: Distribution of percentage differences - Reduction of prices at CHGS class level

| Analytical categories <br> 75\% reduction | GER | FRA | ITA | NLD | BEL | LUX | UKD | IRE | DNK | GRC | ESP | PRT | AUT | SWI | SWE | FIN | ICE | NOR | POL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 Food, beverages and tobacco | -0.3 | 0.9 | -2.5 | 1.2 | 0.0 | -0.3 | -0.6 | -0.7 | 1.8 | 0.0 | -2.8 | -2.3 | 0.5 | 2.5 | 1.5 | -0.5 | 1.1 | 0.3 | 0.3 |
| 3 Food | -0.2 | 1.6 | -2.4 | 1.5 | 0.5 | -0.1 | -0.2 | 0.5 | 1.3 | -0.1 | -3.6 | -3.4 | 0.3 | 2.3 | 2.2 | -1.8 | 0.6 | 1.6 | -0.3 |
| 4 Bread and cereals | 5.3 | 2.6 | -4.0 | 10.7 | 3.4 | -1.3 | -1.2 | 4.1 | 2.3 | -4.3 | -4.8 | -4.3 | -2.5 | -0.3 | 1.1 | -3.0 | -3.7 | -1.4 | 2.6 |
| 5 Meat | 0.1 | 1.7 | 1.4 | 1.4 | 0.5 | 3.0 | 2.6 | -1.4 | 4.7 | -2.1 | -4.8 | -0.6 | 0.6 | 5.1 | 0.8 | -3.1 | 0.8 | -0.2 | -9.3 |
| 6 Fish | -5.4 | 0.8 | 4.7 | -5.4 | 0.6 | 6.4 | -3.3 | -0.6 | 1.6 | 7.1 | 7.7 | -9.8 | 0.4 | -9.8 | -1.0 | -13.2 | -0.6 | 3.2 | 22.0 |
| 7 Milk, cheese and eggs | -0.8 | 3.8 | -13.7 | -0.2 | 2.9 | -3.9 | 0.2 | 1.4 | 0.2 | 6.2 | -7.8 | -9.7 | 4.0 | 7.0 | 5.2 | -3.7 | 14.2 | -2.1 | 0.3 |
| 8 Oils and fats | -2.0 | -6.2 | -1.2 | 7.8 | -4.1 | -5.6 | -0.3 | -3.9 | 8.0 | -4.9 | -6.8 | -4.9 | 0.8 | -0.9 | 7.6 | 7.6 | 10.6 | 2.4 | -1.3 |
| 9 Fruit, vegetables and potatoes | 3.4 | -2.5 | -2.1 | 1.1 | -0.7 | -1.8 | 2.5 | 2.9 | 0.2 | -3.5 | -2.7 | 0.0 | -1.9 | -0.5 | 0.4 | 1.2 | -1.8 | 4.4 | 1.9 |
| 10 Other food | -5.8 | 5.3 | 2.5 | -4.1 | -1.7 | 0.0 | -5.7 | -2.0 | -3.4 | 3.9 | -1.4 | -2.1 | 1.6 | 2.5 | 4.6 | 1.3 | -5.2 | 5.9 | 5.1 |
| 11 Beverages | 0.3 | -3.0 | -2.5 | 0.7 | -3.9 | -2.2 | -2.2 | -4.2 | 6.3 | 1.8 | -7.6 | 1.9 | 0.0 | 4.8 | 0.2 | 4.1 | 3.5 | -0.9 | 4.0 |
| 12 Non-alcoholic beverages | -6.6 | 8.8 | 6.4 | -1.1 | -0.3 | 1.9 | -2.4 | 0.4 | 1.9 | 0.7 | -22.4 | 2.6 | 5.3 | 2.4 | 0.2 | -3.9 | 5.1 | -3.1 | 8.9 |
| 13 Alcoholic beverages | 2.6 | -6.0 | -5.7 | 1.4 | -5.2 | -3.0 | -2.2 | -5.7 | 7.7 | 2.2 | -2.0 | 1.8 | -1.5 | 5.5 | 0.2 | 5.8 | 2.6 | 0.2 | 2.9 |
| 14 Tobacco | -2.8 | 2.2 | -3.3 | -0.4 | 1.4 | 0.9 | 0.9 | -2.4 | -1.3 | -1.7 | 8.4 | 0.5 | 2.2 | 0.1 | -0.8 | 0.6 | 1.6 | -5.2 | -0.2 |
| 60\% reduction |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 Food, beverages and tobacco | -0.2 | -0.3 | -0.6 | 0.2 | 0.0 | -0.4 | 0.3 | 0.5 | 0.4 | -0.1 | -1.6 | -0.2 | -0.4 | 0.9 | 1.0 | 0.3 | -0.1 | 0.3 | 0.1 |
| 3 Food | -0.4 | -0.2 | -0.7 | -0.1 | 0.0 | -0.2 | -0.1 | 1.2 | -0.1 | -0.6 | -1.5 | -0.1 | -0.4 | 1.0 | 1.6 | 0.4 | -0.7 | 1.0 | 0.0 |
| 4 Bread and cereals | -1.8 | 0.3 | -0.7 | -0.7 | 0.2 | -1.8 | 0.6 | 1.8 | -1.8 | 0.3 | -0.8 | -0.1 | -0.7 | -0.7 | 3.1 | -1.2 | -1.4 | 0.6 | 4.8 |
| 5 Meat | 1.3 | 1.9 | 0.4 | 1.6 | 0.8 | 1.7 | 1.0 | -0.1 | 2.2 | -3.2 | -2.7 | 0.2 | 0.2 | 3.1 | 0.4 | -0.3 | -1.7 | -0.7 | -5.9 |
| 6 Fish | -2.7 | 1.6 | 0.7 | -5.0 | -2.0 | 0.2 | -3.4 | -2.4 | -5.5 | 2.9 | 0.5 | -1.6 | -0.9 | -1.2 | 4.1 | -4.1 | 3.4 | 1.5 | 15.5 |
| 7 Milk, cheese and eggs | -0.6 | -2.7 | -1.7 | -0.9 | 0.2 | -1.5 | 0.4 | 2.9 | -2.5 | 0.3 | -0.7 | -0.9 | -0.3 | 2.4 | 0.4 | 1.7 | 1.5 | 1.0 | 1.3 |
| 8 Oils and fats | -4.4 | -2.1 | -0.7 | 0.7 | -1.2 | -0.7 | -0.3 | -0.2 | 0.0 | -1.2 | -0.3 | 1.1 | 0.7 | -1.4 | 1.5 | 6.2 | 2.5 | 1.4 | -1.4 |
| 9 Fruit, vegetables and potatoes | -0.1 | -1.2 | -0.7 | 0.1 | -0.3 | -0.9 | 0.9 | 1.9 | 0.2 | -0.1 | -2.2 | 2.1 | -1.0 | -0.1 | -1.1 | 0.7 | -0.8 | 1.7 | 0.9 |
| 10 Other food | -0.5 | -1.3 | -2.2 | -0.5 | -0.1 | -0.3 | -2.9 | 1.9 | 1.1 | 0.1 | -1.2 | -2.2 | -0.6 | 0.3 | 5.3 | 1.7 | -2.1 | 2.6 | 1.2 |
| 11 Beverages | 0.8 | -0.7 | -0.1 | 1.6 | -1.4 | -1.4 | 0.3 | -0.7 | 2.2 | 2.5 | -3.7 | -1.0 | -0.2 | 0.9 | -0.5 | -0.3 | 1.9 | -0.5 | 0.6 |
| 12 Non-alcoholic beverages | -0.5 | 3.8 | 4.6 | 1.3 | 2.7 | 0.1 | -0.9 | -1.1 | 0.4 | -1.2 | -9.5 | -1.5 | 2.4 | 0.5 | -2.0 | -3.0 | 1.5 | -1.7 | 5.2 |
| 13 Alcoholic beverages | 1.2 | -1.9 | -1.9 | 1.6 | -2.9 | -1.7 | 0.6 | -0.6 | 2.7 | 4.0 | -1.7 | -0.8 | -1.0 | 1.0 | -0.1 | 0.3 | 2.0 | 0.0 | -0.5 |
| 14 Tobacco | -0.6 | 0.1 | -0.4 | 0.6 | 1.6 | 0.1 | 2.5 | -1.3 | 1.2 | -0.3 | -0.6 | -0.4 | -1.0 | 0.1 | -0.3 | 0.6 | 0.8 | -3.0 | 0.4 |

Annex Table 4 (contd.)

| Analytical categories $40 \%$ reduction | GER | FRA | ITA | NLD | BEL | LUX | UKD | IRE | DNK | GRC | ESP | PRT | AUT | SWI | SWE | FIN | ICE | NOR | POL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 Food, beverages and tobacco | -0.1 | 0.0 | -0.1 | 0.0 | -0.2 | -0.1 | 0.1 | -0.1 | 0.0 | -0.2 | -0.3 | -0.1 | -0.1 | 0.3 | 0.2 | -0.2 | 0.5 | 0.1 | 0.1 |
| 3 Food | -0.1 | 0.0 | 0.0 | 0.0 | -0.2 | -0.1 | 0.3 | 0.1 | -0.2 | -0.2 | -0.2 | 0.1 | -0.1 | 0.2 | 0.1 | -0.5 | 0.5 | 0.1 | 0.1 |
| 4 Bread and cereals | -0.4 | 0.4 | 1.2 | -0.5 | -0.1 | 0.2 | 0.1 | -0.3 | -1.2 | -0.2 | -0.1 | 0.4 | -0.2 | -0.1 | 0.4 | -1.1 | -0.5 | 0.0 | 1.8 |
| 5 Meat | -0.1 | 0.2 | 0.0 | 0.0 | -0.2 | 0.0 | 0.7 | 0.0 | 0.3 | -0.2 | 0.0 | -0.1 | 0.4 | 0.6 | 0.0 | -0.4 | 0.2 | -0.3 | -1.1 |
| 6 Fish | 0.7 | -0.3 | -0.2 | 0.3 | 0.0 | 0.0 | -0.7 | -0.9 | -0.2 | -0.3 | 0.1 | 0.0 | 0.2 | 0.6 | 0.2 | -0.4 | 0.2 | -0.5 | 1.4 |
| 7 Milk, cheese and eggs | 0.5 | 0.0 | -0.5 | 0.5 | -1.0 | -0.8 | -0.5 | 0.1 | -0.4 | -0.3 | -0.6 | -0.6 | 0.1 | 0.1 | 0.5 | -0.4 | 3.5 | 0.3 | -0.4 |
| 8 Oils and fats | -0.3 | -0.1 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | -0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | -0.6 | 1.0 |
| 9 Fruit, vegetables and potatoes | -0.4 | -0.6 | -0.2 | -0.2 | -0.1 | -0.1 | 0.8 | 0.0 | -0.1 | -0.4 | -0.1 | 0.8 | -0.4 | 0.2 | 0.2 | -0.1 | 0.1 | 0.3 | 0.2 |
| 10 Other food | -0.2 | 0.2 | -0.8 | -0.1 | 0.3 | -0.1 | 0.4 | 1.0 | 0.1 | 0.2 | -0.1 | -0.4 | -0.7 | 0.3 | -0.3 | -0.6 | -0.1 | 0.6 | 0.3 |
| 11 Beverages | 0.1 | 0.0 | -0.4 | 0.6 | -0.3 | 0.0 | -0.2 | 0.1 | 0.6 | -0.4 | -1.4 | -0.8 | -0.4 | 0.6 | 0.3 | 0.2 | 1.0 | 0.2 | 0.4 |
| 12 Non-alcoholic beverages | 0.1 | 1.1 | 0.0 | 0.0 | 0.7 | 0.0 | -1.4 | 0.2 | -0.9 | -0.5 | -1.6 | 0.5 | 0.4 | 0.0 | 0.0 | 0.4 | 1.5 | 0.0 | -0.5 |
| 13 Alcoholic beverages | 0.2 | -0.3 | -0.5 | 0.7 | -0.6 | 0.0 | 0.1 | 0.1 | 1.0 | -0.4 | -1.4 | -1.1 | -0.7 | 0.8 | 0.4 | 0.2 | 0.7 | 0.2 | 0.6 |
| 14 Tobacco | -0.2 | 0.0 | 0.0 | -0.3 | 0.1 | 0.0 | 0.1 | -1.1 | 0.5 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.6 | 0.1 | -0.1 | -0.1 |
| $\mathbf{2 0 \%}$ reduction |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 Food, beverages and tobacco | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.2 | 0.1 | 0.0 | -0.1 | -0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 |
| 3 Food | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | -0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 0.0 |
| 4 Bread and cereals | 0.2 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | -0.3 | -0.3 | 0.0 | 0.0 | 0.1 | -0.1 | -0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.2 |
| 5 Meat | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | -0.3 | 0.0 | -0.1 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |
| 6 Fish | -0.1 | -0.1 | 0.1 | 0.3 | 0.2 | 0.1 | -0.4 | -0.1 | 0.0 | -0.2 | 0.2 | 0.0 | -0.2 | 0.3 | 0.0 | -0.2 | 0.0 | 0.1 | 0.2 |
| 7 Milk, cheese and eggs | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | -0.2 | -0.1 | 0.0 | 0.0 | -0.2 | 0.0 | -0.8 | -0.3 | 0.4 | 0.2 | 0.1 | 0.9 | -0.2 | 0.0 |
| 8 Oils and fats | 0.0 | 0.1 | 0.0 | -0.1 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.3 | 0.0 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| 9 Fruit, vegetables and potatoes | -0.1 | -0.1 | -0.2 | 0.0 | 0.0 | 0.0 | 0.2 | 0.3 | 0.0 | -0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 |
| 10 Other food | 0.0 | 0.0 | -0.1 | -0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.0 | 0.1 | -0.3 | 0.0 | 0.1 | 0.2 | -0.1 | 0.0 | -0.1 | -0.1 |
| 11 Beverages | 0.0 | 0.1 | -0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | -0.6 | -0.2 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | -0.1 | 0.5 |
| 12 Non-alcoholic beverages | -0.1 | 0.2 | -0.2 | 0.0 | 0.5 | 0.0 | -0.2 | 0.4 | 0.0 | 0.0 | -0.4 | -0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| 13 Alcoholic beverages | 0.0 | 0.0 | -0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | -0.6 | -0.2 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | -0.1 | 0.6 |
| 14 Tobacco | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | 0.0 | 0.1 | -1.1 | 0.9 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | -0.1 | 0.0 |

Annex Table 5: Distribution of percentage differences - Reduction of prices and reduction of basic headings

| 75\% reduction |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | POL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 Food, beverages and tobacco | 0.3 | -1.4 | -2.9 | 0.7 | -1.0 | -1.7 | -1.3 | -1.3 | 3.4 | 2.1 | -0.1 | 2.1 | 0.7 | 0.4 | 2.6 | 0.1 | -3.5 | -0.7 | 1.5 |
| 3 Food | -0.2 | -2.2 | -2.6 | 0.9 | -0.4 | -1.0 | 0.5 | 0.8 | 1.1 | 3.9 | 0.1 | 1.6 | 0.4 | -1.8 | 4.1 | -0.3 | -6.2 | 0.3 | 1.3 |
| 4 Bread and cereals | 3.0 | -6.8 | -3.8 | 10.2 | 2.2 | -1.9 | 1.6 | 7.6 | -0.1 | -0.9 | -5.4 | 3.6 | -1.6 | -9.2 | 5.1 | -3.5 | -10.5 | -3.0 | 17.3 |
| 5 Meat | 5.6 | 1.3 | -1.2 | 1.5 | 0.7 | 2.9 | 8.1 | -0.1 | 4.4 | 1.3 | 2.1 | 7.8 | -0.6 | 5.3 | -3.0 | -5.1 | -11.3 | -2.7 | -13.9 |
| 6 Fish | -9.1 | 0.5 | 8.3 | -4.2 | 0.1 | 2.9 | -2.0 | -3.6 | 3.0 | 8.2 | 7.9 | -5.5 | -3.0 | -18.8 | -0.6 | -11.2 | 0.9 | 5.3 | 29.2 |
| 7 Milk, cheese and eggs | 0.6 | 0.3 | -12.0 | 0.8 | -0.3 | -5.8 | -1.7 | -2.8 | 4.4 | -0.1 | -4.6 | -4.5 | 3.7 | 2.7 | 6.3 | -3.5 | 16.6 | -2.7 | 5.7 |
| 8 Oils and fats | 0.5 | -8.5 | -2.8 | 3.7 | -11.3 | -10.4 | -10.2 | -9.1 | 11.4 | -11.1 | -3.1 | -8.4 | -5.2 | -13.3 | 25.4 | 26.1 | 33.8 | 2.7 | 6.0 |
| 9 Fruit, vegetables and potatoes | 0.2 | -10.0 | 1.9 | -0.7 | 0.2 | -2.9 | -3.3 | 2.3 | -2.6 | 11.5 | 5.7 | 4.3 | -1.3 | -3.1 | 1.9 | 4.8 | -12.5 | 2.4 | 3.7 |
| 10 Other food | -7.3 | 4.0 | -5.4 | -5.0 | -1.8 | 2.0 | -1.8 | 0.6 | -3.6 | 6.1 | -5.2 | -6.1 | 6.6 | -0.7 | 12.3 | 8.4 | -10.0 | 8.0 | 2.1 |
| 11 Beverages | 3.4 | 0.7 | -5.2 | 0.7 | -6.1 | -5.2 | -6.3 | -7.8 | 16.7 | -2.0 | -7.1 | 6.6 | 1.1 | 11.0 | -2.1 | 1.1 | 4.8 | -3.0 | 2.1 |
| 12 Non-alcoholic beverages | -13.2 | 6.2 | 8.5 | -1.2 | -1.8 | 0.2 | -1.2 | 0.3 | 2.0 | 2.0 | -22.9 | 2.5 | 10.3 | 1.7 | 0.3 | -2.9 | 9.7 | -1.1 | 6.7 |
| 13 Alcoholic beverages | 8.6 | -1.1 | -9.7 | 1.6 | -7.6 | -6.3 | -7.3 | -10.1 | 21.3 | -3.0 | -1.1 | 7.2 | -1.0 | 13.9 | -2.7 | 2.0 | 3.7 | -4.1 | 1.3 |
| 14 Tobacco | -2.8 | 2.2 | -3.3 | -0.4 | 1.4 | 0.9 | 0.9 | -2.4 | -1.3 | -1.7 | 8.4 | 0.5 | 2.2 | 0.1 | -0.8 | 0.6 | 1.6 | -5.2 | -0.2 |
| $\mathbf{6 0 \%}$ reduction |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 Food, beverages and tobacco | 0.5 | -2.6 | -1.1 | -0.2 | -1.0 | -1.8 | -0.4 | -0.1 | 2.0 | 2.0 | 1. | 4.2 | -0.2 | -1.1 | 2.1 | 1.0 | -4.6 | -0.7 | 1.2 |
| 3 Food | -0.4 | -4.0 | -0.9 | -0.7 | -0.8 | -1.1 | 0.6 | 1.5 | -0.3 | 3.3 | 2.2 | 5.1 | -0.3 | -3.0 | 3.5 | 2.0 | -7.4 | -0.2 | 1.6 |
| 4 Bread and cereals | -3.9 | -8.9 | -0.4 | -1.1 | -0.9 | -2.3 | 3.4 | 5.2 | -4.0 | 3.9 | -1.4 | 8.2 | 0.2 | -9.6 | 7.2 | -1.7 | -8.4 | -1.0 | 19.8 |
| 5 Meat | 6.9 | 1.5 | -2.2 | 1.7 | 1.0 | 1.7 | 6.4 | 1.2 | 1.9 | 0.2 | 4.5 | 8.7 | -1.0 | 3.3 | -3.3 | -2.3 | -13.5 | -3.2 | -10.7 |
| 6 Fish | -6.6 | 1.4 | 4.3 | -3.8 | -2.4 | -3.1 | -2.1 | -5.3 | -4.2 | 4.0 | 0.7 | 3.1 | -4.4 | -11.1 | 4.6 | -1.9 | 5.1 | 3.5 | 22.4 |
| 7 Milk, cheese and eggs | 0.8 | -6.0 | 0.3 | 0.0 | -3.0 | -3.5 | -1.5 | -1.4 | 1.6 | -5.7 | 2.8 | 4.8 | -0.6 | -1.7 | 1.5 | 1.9 | 3.6 | 0.3 | 6.6 |
| 8 Oils and fats | -2.0 | -4.4 | -2.2 | -3.2 | -8.5 | -5.8 | -10.1 | -5.6 | 3.1 | -7.7 | 3.7 | -2.6 | -5.3 | -13.8 | 18.3 | 24.5 | 23.9 | 1.7 | 5.9 |
| 9 Fruit, vegetables and potatoes | -3.2 | -8.7 | 3.4 | -1.7 | 0.7 | -1.9 | -4.8 | 1.3 | -2.6 | 15.4 | 6.2 | 6.5 | -0.4 | -2.7 | 0.4 | 4.4 | -11.6 | -0.2 | 2.7 |
| 10 Other food | -2.0 | -2.5 | -9.8 | -1.4 | -0.2 | 1.7 | 1.1 | 4.7 | 0.9 | 2.2 | -4.9 | -6.3 | 4.3 | -2.8 | 13.1 | 8.8 | -7.1 | 4.7 | -1.7 |
| 11 Beverages | 3.9 | 3.0 | -2.9 | 1.5 | -3.7 | -4.4 | -3.8 | -4.5 | 12.2 | -1.3 | -3.1 | 3.6 | 0.9 | 6.9 | -2.7 | -3.1 | 3.2 | -2.6 | -1.2 |
| 12 Non-alcoholic beverages | -7.5 | 1.3 | 6.7 | 1.2 | 1.1 | -1.6 | 0.3 | -1.1 | 0.5 | 0.1 | -10.0 | -1.6 | 7.2 | -0.2 | -1.9 | -2.0 | 5.9 | 0.2 | 3.1 |
| 13 Alcoholic beverages | 7.1 | 3.2 | -6.1 | 1.8 | -5.4 | -5.1 | -4.6 | -5.2 | 15.7 | -1.3 | -0.7 | 4.4 | -0.5 | 9.1 | -2.9 | -3.4 | 3.1 | -4.2 | -2.1 |
| 14 Tobacco | -0.6 | 0.1 | -0.4 | 0.6 | 1.6 | 0.1 | 2.5 | -1.3 | 1.2 | -0.3 | -0.6 | -0.4 | -1.0 | 0.1 | -0.3 | 0.6 | 0.8 | -3.0 | 0.4 |

Annex Table 5 (contd.)

| Analytical categories 40\% reduction | GER | FRA | ITA | NLD | BEL | LUX | UKD | IRE | DNK | GRC | ESP | PRT | AUT | SWI | SWE | FIN | ICE | NOR | POL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 Food, beverages and tobacco | 0.6 | -2.3 | -0.6 | -0.4 | -1.2 | -1.5 | -0.5 | -0.6 | 1.6 | 2.0 | 2.5 | 4.4 | 0.1 | -1.7 | 1.2 | 0.4 | -4.0 | -0.9 | 1.3 |
| 3 Food | -0.1 | -3.8 | -0.2 | -0.6 | -1.1 | -1.0 | 1.0 | 0.4 | -0.4 | 3.8 | 3.6 | 5.3 | 0.0 | -3.7 | 2.0 | 1.1 | -6.2 | -1.1 | 1.7 |
| 4 Bread and cereals | -2.6 | -8.9 | 1.5 | -0.9 | -1.3 | -0.4 | 2.9 | 3.1 | -3.5 | 3.4 | -0.7 | 8.6 | 0.7 | -9.1 | 4.4 | -1.6 | -7.5 | -1.5 | 16.3 |
| 5 Meat | 5.4 | -0.2 | -2.6 | 0.0 | 0.0 | -0.1 | 6.1 | 1.3 | 0.0 | 3.3 | 7.3 | 8.4 | -0.8 | 0.7 | -3.7 | -2.4 | -11.7 | -2.8 | -6.1 |
| 6 Fish | -3.4 | -0.5 | 3.3 | 1.5 | -0.5 | -3.3 | 0.6 | -3.9 | 1.2 | 0.7 | 0.3 | 4.7 | -3.3 | -9.5 | 0.6 | 1.9 | 1.7 | 1.5 | 7.4 |
| 7 Milk, cheese and eggs | 1.9 | -3.4 | 1.6 | 1.4 | -4.1 | -2.7 | -2.4 | -4.1 | 3.8 | -6.3 | 3.0 | 5.0 | -0.2 | -3.9 | 1.7 | -0.2 | 5.6 | -0.3 | 4.9 |
| 8 Oils and fats | 2.2 | -2.5 | -1.6 | -3.9 | -7.5 | -5.1 | -9.9 | -5.4 | 3.2 | -6.4 | 3.7 | -3.7 | -6.0 | -12.6 | 16.5 | 17.4 | 20.9 | -0.4 | 8.5 |
| 9 Fruit, vegetables and potatoes | -3.5 | -8.2 | 3.9 | -2.0 | 0.8 | -1.1 | -4.9 | -0.6 | -2.8 | 15.1 | 8.5 | 5.2 | 0.2 | -2.5 | 1.7 | 3.5 | -10.8 | -1.6 | 2.0 |
| 10 Other food | -1.8 | -1.0 | -8.4 | -1.0 | 0.3 | 1.9 | 4.6 | 3.7 | -0.2 | 2.3 | -3.9 | -4.5 | 4.2 | -2.9 | 7.0 | 6.4 | -5.2 | 2.6 | -2.5 |
| 11 Beverages | 3.2 | 3.7 | -3.1 | 0.5 | -2.6 | -3.0 | -4.3 | -3.7 | 10.4 | -4.1 | -0.9 | 3.7 | 0.7 | 6.6 | -2.0 | -2.7 | 2.3 | -2.0 | -1.5 |
| 12 Non-alcoholic beverages | -6.9 | -1.3 | 2.0 | -0.1 | -0.9 | -1.7 | -0.2 | 0.2 | -0.8 | 0.8 | -2.3 | 0.3 | 5.1 | -0.7 | 0.1 | 1.5 | 5.9 | 2.0 | -2.4 |
| 13 Alcoholic beverages | 5.9 | 4.9 | -4.8 | 1.0 | -3.2 | -3.4 | -5.1 | -4.6 | 13.8 | -5.5 | -0.4 | 4.1 | -0.2 | 8.9 | -2.5 | -3.4 | 1.8 | -4.0 | -1.0 |
| 14 Tobacco | -0.2 | 0.0 | 0.0 | -0.3 | 0.1 | 0.0 | 0.1 | -1.1 | 0.5 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.6 | 0.1 | -0.1 | -0.1 |
| 20\% reduction <br> 2 Food, beverages and tobacco | 0.7 | -2.4 | -0.5 | -0.5 | -1.0 | -1.4 | -0.7 | -0.7 | 1.7 | 2.1 | 2.8 | 4.4 | 0.2 | -1.9 | 1.1 | 0.7 | -4.4 | -1.0 | 1.3 |
| 3 Food | 0.0 | -3.8 | -0.2 | -0.6 | -0.9 | -0.9 | 0.7 | 0.3 | -0.3 | 3.9 | 3.8 | 5.1 | 0.1 | -3.9 | 1.9 | 1.6 | -6.5 | -1.2 | 1.6 |
| 4 Bread and cereals | -2.1 | -9.2 | 0.4 | -0.4 | -1.2 | -0.6 | 2.9 | 3.1 | -2.6 | 3.5 | -0.6 | 8.3 | 0.8 | -9.1 | 4.0 | -0.4 | -7.1 | -1.5 | 14.5 |
| 5 Meat | 5.5 | -0.4 | -2.6 | 0.1 | 0.2 | -0.1 | 5.3 | 1.1 | -0.3 | 3.3 | 7.3 | 8.4 | -1.0 | 0.2 | -3.7 | -2.1 | -11.7 | -2.5 | -5.0 |
| 6 Fish | -4.1 | -0.3 | 3.6 | 1.5 | -0.3 | -3.2 | 0.9 | -3.1 | 1.4 | 0.8 | 0.4 | 4.7 | -3.7 | -9.8 | 0.5 | 2.1 | 1.6 | 2.1 | 6.1 |
| 7 Milk, cheese and eggs | 1.5 | -3.4 | 2.0 | 0.9 | -3.1 | -2.2 | -2.0 | -4.2 | 4.2 | -6.2 | 3.6 | 4.9 | -0.6 | -3.6 | 1.3 | 0.4 | 3.0 | -0.8 | 5.3 |
| 8 Oils and fats | 2.5 | -2.3 | -1.6 | -4.0 | -7.5 | -5.1 | -9.9 | -5.4 | 3.2 | -6.6 | 3.6 | -3.7 | -5.8 | -12.4 | 16.5 | 17.1 | 20.9 | 0.3 | 7.5 |
| 9 Fruit, vegetables and potatoes | -3.2 | -7.8 | 3.9 | -1.8 | 0.9 | -1.1 | -5.5 | -0.3 | -2.8 | 15.4 | 8.6 | 4.3 | 0.6 | -2.7 | 1.5 | 3.9 | -10.9 | -1.9 | 1.7 |
| 10 Other food | -1.6 | -1.2 | -7.8 | -1.1 | 0.0 | 2.0 | 4.2 | 2.7 | 0.0 | 2.1 | -3.7 | -4.4 | 5.0 | -3.1 | 7.5 | 6.9 | -5.1 | 1.9 | -2.9 |
| 11 Beverages | 3.1 | 3.8 | -2.9 | 0.0 | -2.2 | -3.1 | -4.2 | -3.6 | 9.8 | -3.6 | 0.0 | 4.4 | 1.1 | 6.0 | -2.3 | -2.9 | 1.3 | -2.2 | -1.3 |
| 12 Non-alcoholic beverages | -7.1 | -2.2 | 1.8 | -0.2 | -1.1 | -1.7 | 1.0 | 0.3 | 0.1 | 1.3 | -1.0 | -0.2 | 4.7 | -0.7 | 0.1 | 1.2 | 4.4 | 2.0 | -2.0 |
| 13 Alcoholic beverages | 5.8 | 5.3 | -4.4 | 0.3 | -2.6 | -3.4 | -5.1 | -4.6 | 12.6 | -5.0 | 0.3 | 5.1 | 0.5 | 8.1 | -2.9 | -3.6 | 1.0 | -4.3 | -0.9 |
| 14 Tobacco | 0.0 | 0.0 | 0.0 | -0.1 | 0.0 | 0.0 | 0.1 | -1.1 | 0.9 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | -0.1 | 0.0 |

