The welfare consequence of increases in food prices in rural Mexico and Colombia^{*}

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Abstract

This paper presents an analysis of the welfare consequences of recent increases in food prices in Mexico and Colombia. We estimate a QUAIDS model of demand for food, using data collected to evaluate the conditional cash transfer programmes in these two countries. We show how the poor have been affected by the recent increases and changes in relative prices of foods. We also show how a conditional cash transfer programme provides a means of alleviating the problem of increasing staple prices, by indexing the grant the household receives with a 'true' price index that reflects the impotance of staples in these households expenditure. We contrast this policy with alternative measures, such as price subsidies.

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1 Introduction

The recent increases in food prices in Latin America and other parts of the developing world have raised considerable concerns about the welfare of poor households for whom food represents a substantial share of consumption and who might be already at levels of consumption close to subsistence. The implications that deterioration in nutrition and food security might have even in the long run make this problem very pressing and the consideration of appropriate policy responses urgent.

Quantifying the impact of the increases observed in recent months and years on the welfare is not easy for a variety of reasons. First, some households might be net producers of some of the items whose price increases. Therefore, for some poor households some price increases might result in an increase in welfare. Second, as prices of different commodities might move in possibly very different ways, one needs to assess the substitution possibilities to assess the decrease in welfare. Finally, in addition to the possible decrease in welfare, it is also important to establish what are the effects of the observed price increases on the pattern of consumption and expenditure. While in this paper we will not say much about the first of these issues, we will deal explicitly with the other two. That is, we will not be modeling supply responses on the production of certain commodities as a consequence of price changes on the part of some of the households in our data sets. We can control for the income effects that price changes can have, but we do not consider substitution possibilities on the supply side. We only model substitutions on the demand side, as was done by Ravallion and van de Walle (1991) to analyze the effect of rice prices changes in Indonesia: our model is more detailed than theirs, but the idea behind the welfare analysis very similar. 1

¹As for the supply side, in the future we plan to consider only the effect that a change in price has on a producer's income. This exercise can be considered as a first order

Many policy interventions in reaction to a change in agricultural prices can be considered, ranging from price controls and subsidies to specific commodities, to cash and in kind transfers. From an efficiency point of view, interventions that do not try to affect prices are probably to be preferred for a variety of reasons. However, direct transfers might be difficult to design and to target. It is therefore natural to look at existing programmes to see if they can be adjusted to the specific need for intervention induced by the increases in food prices. The presence of conditional cash transfer programmes gives policy makers in some developing and middle income countries an important opportunity in this context. The CCTs might turn out to provide the basis to articulate and develop an appropriate response.

There is another sense in which CCTs can be important. Many of these programmes have been evaluated rigorously and for that purpose, survey data have been collected that include detailed data on expenditure and consumption patterns and, in some cases, unit values and prices. These surveys that over the years have been collected to evaluate the impact of CCT provide an invaluable source to estimate the impact of food prices for poor households. In particular, one can use them to estimate detailed and theory consistent demand systems that can then be used to estimate 'true' price indexes. These price indexes can then be used to evaluate in a rigorous fashion the consequences of food price increases. The estimation and use of these price indexes is the purpose of this study. Having estimated the true price indexes, our study is able to assess the effect of specific increases in prices, but also the effect of the change in relative prices. Moreover, we consider not only the average effect of these price changes, but also their distributional consequences.

It should be stressed that the surveys designed to evaluate CCTs are particularly useful in this context. First, they mostly cover the population that is eligible for these programmes or geographic areas that have been targeted

approximation of the type considered by Deaton (1989) and Ravallion and Lokshin (2004).

by these programmes. This means that these surveys cover mainly the poor and vulnerable households that are the main target of possible interventions. In this respect, they have a big advantage over nationally representative surveys that might be used for the same purpose. Second, these surveys often contain very detailed information on expenditure and consumption patterns and on local prices. The former information can be profitably used to detect substitution possibilities, the latter allows one to check, to the extent to which the period covered by the survey is the relevant one, the degree to which international or national prices increases are reflected in local prices.

In this paper, we study two different countries in Latin America that have developed over the last 10 years very large CCTs: Mexico and Colombia. In both cases, we focus on the rural component of the programme. Our choice is mainly dictated by the availability of large household surveys containing detailed information on consumption patterns that were collected to evaluate the impact of these programmes.

Several elements make rural Mexico a very interesting case. Rural Mexico is the place where the first and best known Conditional Cash Transfer programme, PROGRESA, now known as *Oportunidades* was started in the late 1990s. The expansion of the programme was accompanied by a large evaluation effort that included the collection of extensive household surveys in 506 localities. Several waves of this survey were gathered: in this paper we use six surveys collected between October 1998 and October 2007 in these localities.²

In parallel to the introduction of the large scale welfare program, food prices in Mexico have increased in recent years. The most spectacular increase is the price of tortilla, up by 50% in some areas, or more than 10 times the increase in the minimum wage.

The case of Colombia is slightly different. The CCT programme, Famil-

 $^{^{2}}$ We do not use the urban data because it lacks information on prices and unit values and because it refects a different reality from what we study here.

ias en Acción was started in 2002 and the data we will be using cover a shorter period: we will be using a survey collected in 2003 and one in 2006. Unlike the Mexican case, therefore, the survey stops before the recent large increases in prices. However, as we will see, there is enough variability to estimate the demand system we will use for our welfare analysis and our policy experiments. The Colombian evaluation sample we will be using is made of 122 relatively small towns. Roughly one third of the households live in the urban centre of these towns, while the remaining two thirds live in rural environments. Therefore, at least part of the Colombian sample is slightly more urbanized than the Mexican one.

The exercise we propose, the estimation of a demand system to construct 'true price' indexes for the population of interest and assess the welfare losses implied by observed food price increases, is conceptually straightforward. Implementing such an exercise, however, is not trivial. We have to address many methodological, empirical and practical issues.

From a methodological point of view, we need to specify a theory consistent demand system and decide on the econometric techniques we will use to estimate it. Moreover, we need to determine the specific exercises we want to perform to evaluate the welfare consequences of the increases in food prices.

From an empirical point of view, we also have some practical issues to address. First, starting with a very detailed and long list of commodities we need to decide on appropriate groupings so to make the estimation of a demand system feasible. We will need to trade off simplicity and the ability to estimate a demand system with the need to keep a sufficient level of detail to capture the effects of changes in relative prices and substitution possibilities. Second, we need to compute price indexes for the commodity groups we use. We do that, from the prices of the component commodities that make each group. As we want to allow for the presence of different prices in different localities and regions (and possibly use this variability to identify the parameters of interest), we need to observe prices at the local level. For this purpose we can potentially use both price information collected within our survey in local shops and unit values observed in the household survey. Making this information consistent over time is not an easy task.

The rest of the paper is organized as follows. We start by discussing the demand system that we will be estimating using data from Colombia and Mexico. This is done in Section (2), which presents the specific model of demand we estimate, the Quadratic Almost Ideal Demand System (QUAIDS, Banks, Blundell, Lewbel, 1997) and the econometric techniques we employ to estimate it.

In section 3 we present some evidence on the evolution of international prices and how these movements were reflected in the price of basic foods in Colombia and Mexico. In Section 4 we discuss the data sources we use for both Mexico and Colombia and, given that they are related to the evaluation of two large conditional cash transfer programs, provide some information on these programs. Section ?? discuss a number of issues related to the construction of data on prices and quantities from the surveys we use. In addition, we also provide some descriptive evidence on prices and on expenditure patterns. Section 6 presents the results we obtain estimating the demand systems we are studying for both countries. Rather than presenting the coefficients, we discuss both income and price elasticities implied by the estimates. We then move to analyze the welfare implications that our estimated model and different price changes scenarios have for the households in our samples in Section (7). We look both at averages and distributional consequences of the price changes. Finally, we consider several policy experiments. Section (8) concludes.

2 Model of demand

For our purpose, we want to estimate demand equations to evaluate how the households in our sample react to changes in relative prices. At the same time, we want our demand equations to be theory consistent (or integrable) so that they can be used to compute true price indexes and the welfare costs associated with the increase in price indexes.

2.1 QUAIDS

The Almost Ideal Demand System (AIDS) introduced by Deaton and Muellbauer (1980) combines analytical simplicity with consistency to the theory. More recently, however, Banks, Blundell and Lewbell (1997) suggested a generalization of the AIDS model. The Quadratic Almost Ideal Demand System (QUAIDS) allows for more flexible reactions of expenditure shares to total expenditure (in that it does not constraint them to be monotonic) whilst maintaining theory consistency.

We estimate a QUAIDS of the following form:

$$w_i = \alpha_i + \sum_{j=1}^n \gamma_{ij} \ln(p_j) + \beta_i \ln\left(\frac{x}{a(p)}\right) + \frac{\lambda_i}{b(p)} \left(\ln\left(\frac{x}{a(p)}\right)\right)^2 \tag{1}$$

where w_i is the share of commodity *i* in total food consumption, *x* is the total (food) consumption³ and a(p), b(p) and are price indexes defined by the following equations:

$$\ln a(p) = \alpha_o + \sum_k \alpha_k \ln(p_k) + \frac{1}{2} \sum_k \sum_l \gamma_{kl} \ln(p_k) \ln(p_l)$$
$$b(p) = \sum_{i=1}^n p_i^{\beta_i}$$

For this model to be consistent with utility maximisation, the following theoretical restrictions have to hold:

³As we mention below, we will be assuming separability between food and other commodities, so that we will be studying the sub-utility derived from food.

(adding-up)

$$\sum_{i=1}^{n} \alpha_i = 1; \qquad \sum_{i=1}^{n} \beta_i = 0; \qquad \sum_{i=1}^{n} \gamma_{ij} = 0 \qquad \forall j; \qquad \sum_{i=1}^{n} \lambda_i = 0$$

(homogeneity):

$$\sum_{j=1}^{n} \gamma_{ij} = 0 \qquad \quad \forall i$$

(symmetry):

$$\gamma_{ij} = \gamma_{ji}$$

For homogeneity to hold, the price index a(p) must be homogenous of degree 1 in prices and expenditure, and b(p) homogenous of degree 0.

In this model, the price elasticities are as follows:

$$\eta_{ij} = \frac{\mu_{ij}}{w_i} - \delta_{ij} \tag{2}$$

where δ_{ij} is the Kronecker delta, and μ_{ij} and μ_i are given by

$$\mu_{ij} = \frac{\partial w_i}{\partial \ln p_j} = \gamma_{ij} - \mu_i (\alpha_j + \sum_{k=1}^n \gamma_{jk} \ln p_k) - \frac{\lambda_i \beta_j}{b(p)} \left\{ \ln \left(\frac{x}{a(p)} \right)^2 \right\}$$
$$\mu_i = \frac{\partial w_i}{\partial x} = \beta_i + \frac{2\lambda_i}{b(p)} \left\{ \ln \left(\frac{x}{a(p)} \right) \right\}$$

The income elasticity is

$$\eta_i = \frac{\mu_i}{w_i} + 1 \tag{3}$$

Banks, Blundell and Lewbel (1997) show that the QUAIDS demand system can be derived from an indirect utility function of the following form:

$$\ln V = \left\{ \left[\frac{\ln x - \ln a(p)}{b(p)} \right]^{-1} + \lambda(p) \right\}^{-1}$$
(4)

where $\lambda(p) = \sum_{i=1}^{n} \lambda_i \ln p_i$ is homogenous of degree 0 in prices.

In these equations, demographics are assumed to enter in the intercept term of the shares equations. In particular, for commodity i we assume that the parameter α_i is given by the following expression:

$$\alpha_i = \alpha_{0i} + \sum_{k=1}^K \alpha_{ki} z_k \tag{5}$$

where the z_k are the K demographic variables that enter the system. Notice that homogeneity now implies the additional restrictions:

$$\sum_{i=1}^{n} \alpha_{0i} = 1; \qquad \sum_{i=1}^{n} \alpha_{ki} = 0, \qquad \forall k;$$

Note also that the α 's enter the definition of a(p). This makes the system non linear and with a large number of cross equation restrictions.

As discussed in BBL, the demand system in equation (1) combines functional form flexibility to consistency with theory, in that it is integrable. 4

2.2 Separability and commodity groups

In what follows, we assume that utility is separable between food and non food consumption and model explicitly only food consumption. That is, the 'total expenditure' in the indirect utility function in equation (4) is 'total expenditure on food' and the shares in equation (1) are shares of specific food items in total food. There are two main reasons for this choice. First, we only have information on quantities (in addition to expenditure values) for food items. This implies that we cannot construct unit values or price indexes for non-food items. Second, the quality of the information on nonfood items consumption seems to be inferior to that of food consumption.

⁴The last term in equation (1) makes the demand system of rank 3, the highest admissible rank for a theory-consistent demand system that is exactly aggregable, in that it is linear in functions of total expenditure.

This might be a function of the different time horizon or of the fact that many of these items are purchased only very irregularly.

The assumption of separability is obviously a strong one and was mainly dictated by the lack of the necessary data to estimate the full system. On the other hand, we do not think that the cost of making this assumption is very high, in the present context. Food consumption represents on average 70% of total expenditure.⁵ By ignoring non-food items we are ignoring the possibility of substitution between food and non food and therefore probably obtaining upper bounds on the welfare losses caused by increases in food prices. ⁶ But, given the importance of food this type of bias should not be large.

Having assumed separability between food and non-food items, we divide food in eight categories. The exact components of each item are discussed below and are listed in Tables 11.M and 11.C. An 8 goods system produces 64 own and cross price elasticities, which is felt to be near the limit of feasibility given the information contained in the data.

Our classification is considerably finer than what is usually done in the literature. The main reason for this difference lies in the fact that, unlike much of the literature, we do not aggregate various types of cereals. Instead we keep as separate items rice, corn, wheat and other starches. The rationale for such a generous grouping of cereals is the specific interest we have in quantifying the welfare consequences of the increases in food prices. As we see below, while the price changes of several cereals were all large, they were not the same. We therefore want to be able to model explicitly the substitutions between different types of cereals in the face of substantial changes in their relative prices. In other words, the conditions for Hicks-aggregation

 $^{^{5}}$ Another 25% is given by household services (such as utilities, rent etc.). It is debatable whether for these items is reasonable or not to assume separability with food consumption.

⁶This argument is a bit loose as it is not considering the biases induced in the estimation of the subdemand system by assuming separability when it does not hold in reality. It would be impossible to establish what sort of biases in the estimation of own and cross price elasticities arise because of such a false assumption.

(constant relative prices) fail spectacularly over the relevant period and this is potentially important.

As we discuss below, in addition to the four cereals, the other four categories are animal proteins, fruits and vegetables, pulses and other foods. The shares of the first two in total food consumption are particularly important from a nutritional point of view, especially in the context of Mexico, where it is widely perceived that many poor households do not necessarily lack calories but proteins and appropriate micro-nutrients.

2.3 Estimation

We estimate the demand system imposing all of the restrictions from theory. Symmetry is imposed on the price coefficients γ_{ij} of the budget shares of the eight goods in the system. Adding-up and homogeniety are imposed by re-parameterising the α_i , β_i and γ_{ij} in the price indices $\ln a(p)$ and b(p) and the share equations, so that the i=8 terms are expressed in terms of the other parameters. This re-parameterisation leads the model to converge to a solution more quickly than if one attempted to recover the i=8 parameters using explicit parameter restrictions.

We include demographic variables in the α_i terms, as specified in equation 5. As we mentioned above, this implies that they enter additively in the consumption share equations, w_i , as share-shifters, but also enter the price index $\ln a(p)$.

In the case of Mexico, the model is estimated using a sample of about 22,000 households over 6 waves (giving almost 134,000 observations in total). In the case of Colombia, we have almost 19,000 observations distributed over two waves. The share equations with the addition of the control functions (represented by the polynomials in the first stage regression residuals) model are estimated using the non-linear method of iterated seemingly unrelated regressions (non-linear ITSUR). With so many observations and 126 parameters to estimate, and the non linear cross equation restrictions imposed in the

estimation, convergence takes a significant amount of time. Standard errors are clustered at the locality level to take into account the correlation among households living in the same town and a numerical approximation of the delta method is used to calculate standard errors for the income elasticities and both the Marshallian and Hicksian price elasticities.

It has been shown that to estimate the demand system in 1, it is important to take into account the endogeneity of total expenditure and the possible presence of measurement error. To take into account this issue we use a control function approach, which consists in adding to the share equations to be estimated a polynomial in the residuals of the first stage regression for (log) total expenditure. This procedure, which in the linear case is equivalent to instrumental variables, requires the identification of an instrument that affects total expenditure, but is assumed to be excluded from the share equation. In the case of Mexico, we use as instruments an indicator of ppoverty status in 1997 and an average of head earnings. In the case of Colombia, as an instrument we use a measure of expected future income as an instrument. In both cases, the partial F statistic on these variables are very high, indicating that the instruments are good predictors of total food expenditure.

3 Food price increases: Mexico, Colombia and the World.

In the last two years, food prices around the world have increased dramatically while also being very volatile. The increase has been particularly stark for commodities, such as rice, corn and wheat, which constitute the staples for many poor households around the world. Moreover the increases witnessed in the two years to September 2008, probably driven by a combination of many factors, have interrupted a long run trend of declining food prices started more than 20 years ago (see, among others, Timmer, 2008). In recent months, the price of basic staples, like that of other commodities, has come down.

In this section, to put our welfare analysis into context, we report some of the main patterns in world prices of some basic commodities and compare them to the dynamics observed in the two countries we focus on: Mexico and Colombia. Figures 1 to 4 plot the price of rice corn, wheat and meats for the world, Mexico and Colombia from 1980 to September 2008.For international prices we used the IMF Primary Commodity Prices. For Mexico and Colombia we used national sources. In the graphs we also include the data points for the average price of the localities in rural Mexico that are included in the surveys we will use in the analysis below. While we discuss at length how these locality 'prices' are computed below, here we wanted to show how the dynamics of the data we use in estimation relate to the pattern of national and international prices.Given the size of the changes in prices in the recent period, it is useful to zoom in on the last few years. This is done in Figures 5 to 8, which plot the same series as in Figures 1 to 4, but only for the period October 2003 to September 2008.

The rise in international price of rice, corn and wheat in the last two years is spectacularly evident in the figures and it dwarfs the other spikes visible in the series, especially around 1986. International price of meats climbed to high levels in 2008, similar to those experienced in 1980 and from 1990 to 1994.

Mexico and Colombia were obviously not immune from these increases. The increase in the Mexican prices (the solid line in the figures) and in Colombian prices (the dotted line) closely matches the international price increase for wheat and corn from 2003 to the current period, with the rise in the Mexican price of corn being slightly less pronounced in 2008 (see figure 2 and 3). Interestingly, price of meats has increased more than the international price (see figure 4), especially in the case of Colombia. While the price of rice has been steadily increasing both in Mexico and Colombia, especially in the last two years, the increase has not been as large as that experience in international markets (see figure 1). Remarkably, by and large, the average level of prices in our localities moves very closely with Mexican prices. This constitutes an important check on the quality of our data.

Table 1 summarizes the dynamics of the prices of the same four commodities considered in the pictures between October 2003 (for Mexican prices we use December 2003 as starting point) and October 2007 in all the available prices. We choose October for the comparison as most of the interviews in the last wave of the Mexican survey we use below were conducted during this month.

The general picture is that the dynamics of prices between 2003 and 2007 in Mexico as a nation, and in the rural population in our sample, largely reflect that of international prices. However, the price of rice, both at the nationwide level and in our sample, seems to respond less to the sustained international price rises observed during this period. On the other hand, the price of meats in the localities in our sample went up more than the international and Mexican price. The price of corn in our sample seems to be follow closely international prices, as the sizeable increase in our sample reflects more the world price increase (higher) than the Mexican nationwide increase (smaller). In addition to this, corn is the commodity whose prices increased most in the period 2003-2007 in our sample. The price of wheat offers the most diverse picture: international and Mexican prices doubled in the period, with this being by far the biggest increase among the commodities considered here, while the price in our sample went up much less.

When we look at the increase in the last three years, comparing January and December of each year (September 2008), we find that both in the world at large and in Mexico the prices of corn, wheat and rice have been increasing at different paces in different years. The price of rice rose especially in 2008, while corn registered the largest increases in 2006 and wheat in 2007.

If one couples the fact that corn price is the one that increased more between 2003 and 2007 among the commodities we are considering here and that corn represent almost 28% of the food budget (see below for additional details on the food groups shares) of the population in our sample, it follows that households in our survey, which is made predominantly of poor households, are affected to a large extent by the increase in prices.

For Colombia, the summary is only slightly different. As for Mexico, we can see that the international trends are reflected to an extent in the national prices. The big exception is, once again, rice, where the increases are much less severe than at the international level. Corn prices are a bit of a puzzle. While in 2006 the increase is very similar to that of Mexico, in 2007 the decline is much more pronounced. In 2008, however the increase is again on line with the Mexican figure and greater than the international increase. It should be noticed, however, that corn is not as important as in Mexico as a staple of poor household. In the case of wheat, the increases are qualitatively similar to those of Mexico, while meats prices increase more than in Mexico in 2006 and 2007, but decrease in 2008.

4 Conditional cash transfers, data sources and descriptive evidence

The main object of this paper is to study the welfare effects of recent price increases in rural Mexico and Colombia. In this section, we describe our data sources, present some descriptive evidence from our survey and discuss a number of data issues related to the construction of prices. It should be stressed at the outset that our data is not representative of rural Mexico or Colombia: we use the surveys collected to evaluate the Conditional Cash Transfer programmes that were implemented in the two countries, PRO-GRESA/*Oportunidades* in Mexico and *Familias en Acción* in Colombia. Our justification for using these data sources is the richness of the surveys and the fact that they constitute a longitudinal data base that covers, in the case of Mexico, a long time period. We will now discuss the case of the two countries

in turn, starting with Mexico.

4.1 Rural Mexico

Mexico is a middle income country that in the last few decades has seen many changes, including a strong process of urbanization. Its rural population, however, remains an important fraction of the total and one that is disporportionately affected by poverty. The rural poor are also perceived to be particularly vulnerable to external shocks, such as the increases in food prices that we mentioned above.

4.1.1 PROGRESA/Oportunidades

Since 1997, the Mexican government has used a Conditional Cash Transfer programme as its main strategy to fight poverty in rural areas. The programme was started under the Zedillo administration and was first known as PROGRESA. The programme consolidated and replaced many pre-existing programmes, including some consisting of in-kind transfers. PROGRESA was expanded since its inception in 1997 to cover about 50,000 localities in 2000 and has become the largest welfare programme of the Mexican government effectively covering almost all of rural Mexico.

Two types of rural localities were not covered by PROGRESA. The first set is constituted of localities that were perceived as not being 'marginalized' and 'poor enough' to need this type of intervention. Some of these localities were included in subsequent expansions of the programme. The second set of localities were places that did not have access to enough health and education infrastructure to allow the beneficiary households to comply with the conditionalities imposed by the programme at a reasonable cost. These localities were covered by other programmes. These details are important for us because we use data from the evaluation of the rural component of PRO-GRESA/*Oportunidades* and therefore only include localities targeted by this programme. In principle it would be important to perform a similar exercise

for the very marginal localities not covered by PROGRESA.

Unlike many other programmes targeted at rural areas, PROGRESA survived the 2000 change of administration and only changed in name, becoming *Oportunidades* under the Fox administration. In 2002, the programme was expanded to some urban areas, excluding only the largest cities. While the urban programme is identical to the rural one in terms of the size of the grants provided, the registration mechanism is very different. In this paper we do not study households covered by the programme in urban areas, partly because they constitute a very different reality which should probably be the object of a different study and partly because the data available do not include the same detail of information on prices and unit values that is available in the rural survey.

4.1.2 The Mexican data

In order to evaluate PROGRESA and estimate its impact, several large surveys were conducted in some rural areas. The so called 'ENCEL' surveys collect extensive information on all households living in 506 rural localities in seven Mexican states.⁷ These 506 villages were randomly allocated to two groups of 320 and 186. In the first group of localities, PROGRESA began operation in mid 1998, while in the rest of the sample the programme started to operate at the end of 1999. Data were collected in March and October 1998, in May and November 1999, in April and November 2000 in villages in both groups.

In October 2003 an additional survey was collected, which included the 506 localities and an additional 150 localities in which Oportunidades was still not operating in 2003. This last subset of localities belong to the set of localities that were not 'poor enough' to be included in the first expansion of

⁷Because of the way PROGRESA and then Oportunidades are targeted, the programme performs a census of all the household living in all rural localities where the programme operates. This survey, labeled ENCASEH, contains information on several variables, but not on consumption and expenditure.

PROGRESA. They are therefore systematically different from those in the original sample. For this reason we exclude them from our analysis. Finally, a large fraction of the localities in the 2003 ENCEL sample were visited and households re-contacted in October 2007 for a follow-up survey. On this last occasion, localities in Chiapas were added to the sample.

The ENCEL surveys constitute the bulk of the data we use for our analysis. Our sample consists of the October 1998, May and November 1999, November 2000 and the 2003 and 2007 survey waves as the other waves did not have sufficient consumption information. As mentioned above, we excluded data from the urban programme roll-out to ensure a relatively homogenous sample and because price data were not available for those surveys. For this reason we also exclude the additional localities surveyed in the 2003 and 2007 ENCEL survey and use only the original 506 localities originally in the 1998 ENCEL.

As we mentioned above, all households living in a locality are interviewed. A large fraction of them is constituted by households who are eligible for PROGRESA/*Oportunidades*. On average, 78% of the households in our localities are beneficiaries. There is a substantial amount of variability in eligibility rates across localities.

Obviously, beneficiary households are 'poorer' than non-beneficiary ones. This can be verified in a variety of dimensions, from the ownership of durables to the fraction of total consumption devoted to food. In any case, the large majority of the households in our sample are quite poor. On average, for instance, food accounts for nearly 70% of their total budget.

The ENCEL surveys contain information on a number of demographic and socio-economic variables. In what follows we make use of the following variables: the sex, age and ethnicity of the head of household, the household size, the number of children and the earnings of the household head. The locality-level average of head-earnings is calculated and used as an instrument for total food consumption (see section (2.3)) Additional household characteristics variables are available, however, inclusion in our estimated demand systems could overburden the available consumption and price data. Data from 130,000 observations were used in the analysis, corresponding to roughly 21,600 households over 6 survey waves. Descriptive statistics for the variables used in this analysis and other variables of interest can be found in Table 2.M.

One of the main reasons for our use of the ENCEL survey is the richness of the consumption and expenditure data. In the case of food and drink (alcoholic and non alcoholic), the survey contains information on weekly expenditure and quantity purchased, for 36 goods, together with the quantity consumed and home produced. The foods included and their share in the budget can be found in Table 3.M, and cover fruits and vegetables, grains and pulses, meat and animal products, and other foods. The list is supposed to be exhaustive of the foods consumed by these households. Table 4.M reports, for the same foods, the percentage of households consuming the food during the survey week.

In addition to information on food consumed and/or purchased in the last week, the survey contains information about several other items, over different time intervals. In the case of some items, such as utilities, questions are asked about expenditure in the last month, while for some others, such as clothing and furniture, the questions in the survey refer to the last six months. On all these items, however, there is only information on values spent, not on quantities. One, therefore, cannot compute unit values, as in the case of food.

Given that the survey contains information on quantities purchased and consumed as well as the value of expenditure, it is in theory possible to observe prices, or to be more precise, unit values. There are however a large number of measurement issues that need to be addressed. We discuss these in Section 5.

4.2 Rural Colombia

Colombia is poorer than Mexico, but it shares with it a number of features, including the high level of inequality and the fact that rural areas are considerably poorer than urban ones. Besides per capita income, there are also many other differences, ranging from the (lower) relative importance of indigenous populations, to the level of conflict in some areas of the countries, in particular in the period covered by the surveys. The rural poor were particularly affected both by the civil war and by the decline of many traditional crops, as well as other shocks, and in particular the decline in the international prices of coffee.

Colombia, in the late 1990s and early 2000s was affected by the worst recession of the last 40 years. Partly as a reaction to this crisis, the government launched some large welfare programmes, financed with a loan from the World Bank and the Inter American Development Bank. The largest of these programmes was a conditional cash transfer modelled after PRO-GRESA in Mexico and called *Familias en Acción*. It is to the description of this programme we now turn.

4.2.1 Familias en Acción

The Colombian CCT was modeled after PROGRESA and started in 2002 under the name Familias en Acción (FeA). The programme first started in 627 municipalities (there are about 1000 municipalities in Colombia). As with PROGRESA, the first level of targeting is geographic. The idea is to identify localities which are poor but have access to enough infrastructure for the households to be able to comply with the conditionalities imposed by the programme. However, unlike in PROGRESA, where the locality targeted is quite small, FeA targeted entire municipalities, albeit not very large ones in the first wave of expansion. In particular, municipalities were considered eligible for the programme if they had less than 50,000 inhabitants, if they had enough health and education infrastructure, if they had at least one bank office and if the city offices had updated the list of beneficiaries of social programs.

The last requirement suggests another important difference in the targeting procedure with respect to PROGRESA. While PROGRESA ran a census of the households living in eligible localities to establish eligibility at the household level, FeA used a pre-existing index, the so-called SISBEN which is used in Colombia to target all welfare programmes. In the case of FeA, all households belonging to the lowest level of the size possible of SISBEN were included in the programme.

Although FeA was started at the end of the Pastrana administration, the newly elected President Uribe supported the programme, which soon became the flagship welfare programme of the new administration. In 2005, it was decided to expand FeA to urban areas and larger municipalities, including large metropolitan areas, such as Medellin or Cartagena. The first wave of the programme expansion included around 400k households. Currently more than 1.5 million households are covered by FeA around the country.

4.2.2 The Colombian data

As in the case of PROGRESA, the government of Colombia, encouraged by the IADB and the World Bank , decided to develop an impact evaluation of the programme. However, unlike the case of PROGRESA, there was no random allocation of the programme to different localities during the expansion phase. Instead, for evaluation purposes, a sample of 57 treated municipalities were chosen and those communities were matched with another 65 communities where, for a reason or another, the programme did not start and that were considered 'similar' in a number of dimensions to the 'treated' communities. The main difference between the 'treatment' and 'control' municipalities is the absence of a bank in most of the latter.

Unlike the ENCEL data, the surveys collected for the evaluation of Fea were not a census but a representative stratified sample of about 100 households per municipality (at baseline). Three surveys were collected, one before the start of the programme in 2002 and two additional ones after the programme started in 2003 and between 2005 and 2006. The initial survey included about 11,500 households of which 6% attrited in the first follow up in 2003 and a further 10% by 2006"

For the purpose of this study we used only the two follow up surveys of 2003 and 2006 and did not use the 2002 baseline. The main reason to EXCLUDE the 2002 data was the presence of some problems in the conversion factors for some of the measures used in assessing quantities for several consumption goods. While we did have conversion factors, we worried about the quality of those data and of the consistency over time with the other two surveys.

As with Mexico, we dropped from the sample some of the outliers in terms of total food consumption and ended up using just under 19,000 observations.

The Familias en Accion evaluation data contains a number of demographic and socio-economic variables, along with household and municipality characteristics. A small subset of the demographic variables including the gender and age of the household head and household composition variables are included in the demand system estimation. Table 2.C reports the means of some of these variables in the two surveys. Compared to Mexico, we notice that the Colombian sample is slightly younger, with a higher proportion of female headed households and with larger families, mainly because of a larger number of children. As for expenditure on food, a comparison is not straightforward given that the figures are expressed in different currencies. Depending on the exchange rate one uses, the two sets of figures are roughly comparable, with the Colombian figures being slightly higher.

The information on weekly consumption and expenditure is much more detailed in the Colombian data than in the Mexican ones: the evaluation of FeA data set reports data on on almost 100 food items, along with information on the quantity purchased and home produced of each. In addition to the household survey, a shop at the centre of each of the municipalities was surveyed to collect the prices of each of these food items.

The list of commodities is reported in Tables 3.C and 4.C, which correspond to 3.M and 4.M for Mexico. The Colombian data are more detailed than the Mexican ones: Tables 3.C reports data on consumption shares in total consumption for each of the 97 commodities. In Table 4.C, we report the percentage of households who report zero consumption for each item. Notice that virtually all households consume rice, which is the main staple in rural Colombia accounting for over 10% of food expenditure. Rice seem to be as common a staple in Colombia as corn (tortillas) in Mexico. Corn, on the other hand, while not uncommon, only accounts for about 1% of food expenditure Notice also the prevalence in both countries of pulses and potatoes.

5 Quantities and Prices: measurement and aggregation issues

As we want to model in detail the demand for different food items, it is important for us to be clear about what we mean by consumption, expenditure and how that relates to the objects we measure in our data. While the questions in the survey makes explicit reference to 'consumption' and 'expenditure' during the last week, it is likely that for many food items, purchases take place at discrete points in time and with a peridiocity that may not coincide with the week. As a consequence, we might have households whose recorded expenditure is higher than its consumption (or long run average rate of weekly expenditure). On the other hand, we will have households who record a zero purchase even if they are consuming a positive quantity. For these households then the recorded expenditure is lower than its consumption (or long run average rate of weekly expenditure). As the aim of the study is to measure the responsiveness to prices and income of average weekly expenditures and quantities of foods, it is necessary to include households who make no purchases of particular foods in the data to be analyzed. Hence, households who made zero expenditures on particular foods and food groups during the week prior to the interview are included in the analysis.

5.1 Quantities and Unit Conversions

The calculation of unit values and indeed any calculation involving food consumption is made difficult by the fact that quantities can be recorded in different units for which a credible conversion procedure is not always evident. This problem can occur in any consumption survey where expenditures and quantities are recorded but here is aggravated by the fact that the procedure for the recording of purchase quantities varies across survey waves, and indeed, in some cases procedures appear to have been applied inconsistently across goods and households.

5.1.1 Mexico

In all survey waves, survey interviewers were given instructions to record quantities in either kilograms or litres, and to convert other responses into these units⁸. However, for all surveys with the exception of November 2000, they did have the option of recording quantities in 'piezas' – the number of items purchased – or 'other units'. Whilst these are rarely used for many goods, pieza is the most common for goods such as leafy vegetables and bread varieties (see table A1). Whilst it is possible for different units to be used for different goods, the same units must be used for all instances of a single good. It was decided, for simplicity and comparability, therefore to convert all quantities into kilograms (or litres for milk and carbonated drinks). In order to do this, conversion factors provided by the Instituto Nacional de

⁸In 2003 and 2007 these instructions do not appear on the questionnaire although it seems probable that interviewers were aware of a preference for recording quantities in these units as the numbers reporting other units are very low.

Salud Publica (INSP) were used (see Table A2).

In principle, application of conversation factors should be trivial, however, in this instance, it appears that for certain goods (white bread, sweet bread and loaves of bread), quantities listed as kilograms are actually being recorded in pieza. This became apparent when comparing quantities purchased and unit values in five of the waves with those from November 2000, when respondents and interviewers were only able to record quantities in kilograms or litres. Using this as a baseline for 'plausible' values, the quantities and implied unit values of each good in the other waves were carefully studied to check whether quantities reported in kilos, or litres were actually expressed in these units, or whether they required conversion. The results of this exercise are summarized in Tables A1, which reports for each food items and for each wave whether and for which unit conversion to kilos or litres is needed.

An additional difficulty affecting the 2003 and 2007 surveys is that separate entries are made for kilograms and grams and in some instances, interviewers appear to have recorded a quantity in the wrong unit for bread varieties, in particular. In order to solve these cases it was assumed that quantities of less than 100 could not be grams. Whilst this is, of course, an arbitrary threshold, it successfully prevents the implausibly high or low unit values that mis-recording of unit magnitude causes. This problem affects roughly 2000 observations.

5.1.2 Colombia

Information on quantities purchased and home produced was recorded in a range of units, many of which do not have a credible conversion procedure. This problem is acute in the data we use, particularly in the baseline wave. Quantities could be recorded in any one of 16 units, 9 of which do not have a credible conversion procedure.⁹ In the first follow up and second follow up waves, restrictions were placed on the units in which the quantities of any of the foods could be reported.

In the absence of credible conversion factors, we choose, in the first instance to use the data for quantities reported in a unit that could be easily converted into kilograms or litres (for liquids). However, for some foods, this would mean ignoring a majority of the observations, for instance, 98.1% of observations for bread were reported in unidads (or unit). We therefore choose to measure a set of foods in 'imprecise' units if a majority of the observations are reported in this unit .

In order to compare the unit values over time, it is important that foods are measured in the same unit over time. This is not always the case in our data. In particular, the baseline wave collection allowed for foods to be reported in any one of 16 units. The follow up waves of data, however, restricted the units that each food could be measured in. Given this change in the questionnaire, the units reported for a large number of items in the baseline wave are often not comparable with those reported in the first and second follow up waves. As a result of these problems, we chose to use data from only the first and second follow up waves in the estimation of the demand system.

The variation in units reported creates a further complication in the valuation of food that is consumed but not bought. We can only value consumption if it is reported in the valid unit by at least 1 household in the municipality (prices are computed at the municipality level as will be explained below). This is a large problem for us. About 30 % of quantities that are not bought cannot be valued as a result of this problem. To overcome this problem, we approximate conversion factors between the valid unit and the invalid units (for the imprecise units) by comparing the prices paid

⁹The range of units in which quantities could be recorded included flask, bag, bundle, box/crate, packet, along with easily convertible units such as kilos, grams and litres

for these different units. For example, oranges are reported in units for purchases by a majority of households, but a significant amount of oranges that are consumed but not bought are reported in kilos. We do not have an exact conversion factor from kilos to units. We therefore compare the unit value of 1 kilo of oranges purchased (say 1000 pesos) to that of 1 unit purchased (e.g. 200 pesos) and impute a conversion factor of 1 kilo of oranges = 5 units. We use data from the second follow up wave to approximate these conversion factors . When the conversion factors are applied, we can value 95% of non-bought consumption in the second follow up wave.

5.2 Unit Values

Obviously prices are key for our analysis. In both surveys we have potentially two sources of price information we can use: shop prices at the locality level and unit values at the household level. We discuss them in turn, starting with the latter.

To compute a unit value, we need both the expenditure and the quantity of a given item purchased. Given that we have data on these variables, we can divide expenditure by quantity purchased to obtain a unit value. A first issue arises from the fact that this procedure yields unit values that exhibit some variability even within localities. Our demand model assumes that households face a single price within a locality. The variability in unit values may arise from a variety of sources, ranging from measurement error, to non-linear price schedules (as discussed in Attanasio and Frayne, 2006) and quality effects (as discussed in Deaton, 1996 and Crawford and Preston (2003) As our main purpose here is to estimate a demand system to perform a welfare exercise, we ignore these problems and use an ad-hoc procedure to take an average of unit values to represent the price faced by the households living in a village.

5.2.1 Mexico

As usual, there are many ways one can perform these computations. We considered explicitly two main ways. The first, termed 'plutocratic' divides the total expenditure on a food item by a given group of households (for instance those living in a particular locality), by the total quantity purchased by the same group. This gives more weight to the prices paid by those households with the highest expenditure. A second method, termed 'democratic' involves dividing the expenditure of each household by the purchase quantity reported by that household, and then choosing for each good some measure of central tendency within a given group (again, for example, locality) as the unit value for that good. It is the latter approach that we use here, choosing the median unit-value for a good at the lowest appropriate level of grouping. In most instances this is the set of households surveyed in a locality in a given survey wave. However, when fewer than 8 households report positive consumption of a good, or the median price is implausibly high¹⁰, a wider geographical area was used (firstly, the municipality and finally, the state).

As well as being used to represent 'the' price of a given commodity faced by our households in a given locality, unit values are also used for estimating the value of food items that are not purchased, for which only quantities consumed are recorded.

Whilst our method of taking locality-level median unit values reduces significantly the amount of variability in unit values, we do so because even with our careful checking of units and prices, a small but non-negligible proportion of households report unit values that appear implausible. We chose median unit values rather than means in order to prevent implausible outliers from affecting the unit values used in estimation. For certain goods, only a few households report purchases in the reference week, and together with inaccuracies in reported quantities and expenditures this means that

¹⁰This threshold is set at 100 pesos for most goods, with the exceptions of certain meat products. It is binding only in a few instances.

unit values are an imperfect measure of the prices consumers face.

Table 5.M shows average median unit values, in constant 2007 prices, over time. The prices are converted to 2007s pesos by dividing them by the CPI (with October 2007 as the base). The final column shows that prices of all goods considered rose in nominal terms between October 1998 and October 2007.

Roughly half of the goods saw a fall in their real price over this period, notably the staple vegetables, rice, beans, and chicken. However, much (or in many cases even all) of this relative price fall took place between October 1998 and May 1999 when prices fell substantially for vegetables, particularly tomatoes. The most rapid price rises (in rice and wheat, especially) took place following the end of this period, although the price or tortilla, a major staple food increased very rapidly in both nominal and real terms between November 2000 and October 2007. In graphs 1 to 4, discussed in section 3 we have compared the time variation of these data with national level prices and found a remarkable correspondence. We therefore think that our measures of prices are plausible approximations to actual prices.

Table 6.M shows the standard deviation of the log of median unit values. This shows that even when taking median unit values there is a reasonable degree of price variation, even for frequently purchased and relatively homogenous goods such as tortillas. However, as expected, the most homogenous goods such as sugar and oil, have the least variation in price. Variation in prices of goods purchased in relatively small quantities is larger but is reduced by moving to a larger geographical unit if fewer than 8 households report expenditure.

5.2.2 Colombia

As in Mexico, unit values present some variability within municipalities, probably reflecting a variety of factors, ranging from measurement errors, to quality effects to bulk discounting to different locations within the municipalities. The demand model used assumes that households face a single price within a municipality. Therefore, as in Mexico, we choose to take the median unit value of households living within a municipality to represent the price for the food. Taking the median reduces the variability in unit values significantly and also makes the chosen price measure less sensitive to a few outlying implausible values .

Table 5.C shows the average of the municipality level real median unit values for each of the commodities we consider. The prices are converted into 2006 pesos (with February 2006 as the base) using the CPI for Colombia (obtained from the Banco de Colombia). As with Mexico, in addition to averages, we also report information on the variability of median unit values. Table 6.C, which is equivalent to Table 6.M, reports these figures.

As mentioned above, we chose to calculate unit values for foods only if they were reported in the chosen valid unit for that food. While this valid unit was used to measure a majority of observations for each food in the whole sample, it may be the case that in any particular municipality, no household reports having purchased the food in this valid unit. This could result in missing municipality level unit values. A sizeable proportion of municipality level unit values are missing in our data -33.8% for the first follow up wave and 31.5% for the second follow up wave. Further, only 14% of municipalities had a price vector covering at least 80% of the 90+ commodities in our data. We choose to construct a fuller price vector for each municipality by filling in missing unit values with the shop prices. More discussion on how the shop prices were collected and their comparability to the prices actually faced by households is in the next paragraph. Filling in for missing unit values using shop prices results in a fall in the proportion of municipality unit values that are missing, but does not eliminate the problem. In the first follow up wave, 20% of prices are still missing. The corresponding figure for the second follow up wave is 15%. To further complete the price vector (to value non-bought consumption), we fill in missing prices using the departmental

level and sample level median unit values.

5.3 Shop prices

In addition to information on individual level purchasing and consumption data, the survey interviewers collected information on prices in one or more stores in most localities for a set of commodities. We discuss this information in both countries.

5.3.1 Mexico

In principle, using shop prices rather than unit values would be desirable in that it would be expected that shop prices would be less affected by measurement error than unit values. However, in this instance, it was not possible to use the shop prices for the estimation of the responsiveness of quantities demanded to changes in prices. This is because the foods for which shop prices are recorded are different from the foods in the individual-level survey questionnaires. In particular, whilst the total number of foods for which there are shop prices is typically greater than the number of foods recorded in the survey, it excludes certain goods such as prickly pears, sweet bread, and breakfast cereals, and uses slightly different definitions for others such as leafy vegetables and tinned fish. In addition, by surveying just one or two stores per locality, many of which stock only a narrow range of goods, the number of observations for certain goods, even relatively common, is very low. For instance, it is possible that a given commodity is not commonly purchased in the local store in a given locality but in local (and possibly mobile) markets. In this case the shop price is missing. Furthermore, different types of stores are surveyed including wholesalers, government-subsidized stores and regular private stores, and price variation may reflect the particular stores surveyed in each municipality rather than general price variation. The price module of the ENCEL improved considerably in 2003 and 2007. However, the improvement in the quality of shop price data makes the time series variability in these variables unreliable. The method to compute unit values, instead, is consistent over time. Because of all these concerns, it was decided that shop prices could not be used in the main analysis and that unit values were to be preferred.

However, it is possible to use shop prices as a check for the patterns found in the median unit values. Table 7.M shows that there is a similar pattern of price changes for most commodities in shops as reported for unit values. For instance, the large falls in price of many vegetables between October 1998 and May 1999 are notable, as is the rise in the real and nominal price of Tortillas. Table 8.M shows for 6 main commodities the median real unit values and shop prices side-by-side for ease of comparison and demonstrates how levels and patterns are broadly similar.

Table 9.C shows that shop prices are noticeably more variable than median unit values. Whilst this may appear surprising it must be remembered that median unit values are based upon geographical areas where at least 8 households report positive consumption, and that shop prices may have added variability due to the inclusion of stores unlikely to be used by poor consumers (e.g. the wholesalers). Again, relatively homogenous goods such as sugar and oil have lower levels of variability than those with greater variety such as cheese or fish.

Table 10.C shows the degree of correlation between shop prices and median unit values for each commodity by survey wave, and overall. As one would hope, shop prices and unit values are positively correlated (except for fish and lamb/goat, both rarely consumed or available in stores). However, for many goods the degree of correlation is very weak – even for common and homogenous goods such as tortillas. Whilst this is not as one would hope, it should not be entirely unexpected given the shop prices used cover only one store (of varying type), and that median unit values for less-purchased items are often the median at the municipality or even state level.

5.3.2 Colombia

In addition to collecting information on household expenditure and consumption, the survey also collects information on the prices of the same commodities from one shop in each of the municipalities. Information on the price and quantity of each food was collected, along with conversion factors for foods that were reported in the imprecise units (to convert them into precise units such as kilograms or litres).

Table 7.C shows the average real shop prices for our data. Shop prices seem similar to the real median unit values for some of the key commodities such as rice, corn, chicken, carrots, among others. As for Mexico, in Table 8.C, we show for a few important commodities median unit values and shop prices. Once again, the figures show that unit values are not too far away from shop prices.

Table 9.C, as the corresponding table for Mexico, shows the variability across municipalities, of shop prices in each of the two surveys. As with the Mexican data, shop prices appear to be more variable across localities than median unit values.

Table 10.C shows the correlation coefficients of the municipality level median unit values and the shop unit prices. On the whole, shop prices are positively correlated with the unit values, though there are exceptions (such as pasta/vermicelli, cold meats, powdered milk, tongue, feet, garlic, lemonade and bienestarina (which is a nutritional supplement that is usually not bought from shops)). The degree of correlation is weak for many goods, but is reasonable for key foods such as rice, corn, some of the meats, potatoes and some of the vegetables. There is variation in the correlation coefficients over time, with weak correlation for some foods in the first follow up wave and much stronger correlation in the second follow up wave and vice versa.

5.4 Price indices

For practical and computational reasons, we cannot model separately all the commodities for which we have information in the two surveys. Instead, we aggregate food into eight groups: rice, corn, wheat, pulses, fruits, animal products, other foods and other starch.¹¹ The food groups composition are shown in Tables 11.M and 11.C. The foods were aggregated so as to produce commodities homogenous in terms of their nutritional type and of their prominence in Mexican and Colombian diet. We wanted to keep separate some staple products (rice, wheat and corn) to exploit the differential price dynamics of these goods prices in our welfare analysis and policy simulations. In particular, given that the prices of these different staples have moved differently, we want to account for these differences and at the same time allow for the possibility of substitution effects.

From the data on individual item prices described above, we construct Stone Price indices for the eight food groups for which we estimate a demand system. The sub-group weights used for calculating these are constructed by summing expenditure on each good within a group for a locality and dividing by the total locality expenditure on that food group. Where there is no expenditure on a group in a locality (and the above procedure would involve a denominator of zero), municipality level totals are used. Hence, in contrast to the calculation of unit values, the 'plutocratic' method is used – higher weights are given to those with higher total expenditures. This was done because of the large number of individual households for which total expenditure on particular food groups was zero.

Table 12.M and 12.C report, for each survey and each country, the mean and standard deviation of the log prices indexes for the eight groups we consider in the demand system below. The mean and standard deviation of each commodity are computed across localities. The two panels of the

¹¹Alcoholic beverages are left out of the analysis because the way they were recorded in 2003 and 2007 was changed to allow for different type of beverage.

table, therefore, give an idea of the observed price variability which is used to identify the demand system and, therefore, the price elasticities. It should be stressed that there is a considerable amount of volatility in relative prices, both across communities and over time. This variability is extremely useful in estimating the parameters of our model.

5.5 Food Shares

Having discussed the evolution of the price indexes for the eight commodity groups we are considering, we now show some evidence on the evolution of consumption shares for the same groups. We start with the evidence from Mexico, reported in Table 13.M, which contains the evolution of the average and the standard deviation of the eight food group shares over the 6 waves of our sample. Share of food expenditure on corn products is constantly higher than 25% across the 6 waves. Rice and wheat account only for less than 5% of the food budget in our sample, however the increase in the mean wheat share between 2003 and 2007 is noticeable. The share of animal products has also been rising steadily from 1998 to 2007. Finally, households in our sample seem to be switching away from consumption of pulses (beans) over time.

Moving to Colombia, whose figures are contained in Table 13.C, we notice that starches account for about 30% of the food budget, a third of which is rice. Animal products account for another third, while the rest is divided among the other commodities. Between 2003 and 2006 the shares are relatively stable. We only notice a decrease in fruit and vegetables and corn and an increase in wheat and other starches. The changes, however, are not too large.

6 Price and income elasticities of demand

We are finally ready to show the results we obtain estimating the demand system discussed in Section 2 on the two data sets. The coefficients of the demand system 1 are, for the most part, not easy to interpret. For this reason we relegate the estimates of these coefficients to the Appendix. In this section, instead, we use the estimated coefficients to compute the income and price elasticities they imply. We present first the results for Mexico and then those for Colombia. Before doing that, however, we should stress that for both countries the endogeneity of total food expenditure turned out to be important.

As we mentioned above, the estimates were obtained by applying a control function approach, using variation in average log wages across localities in Mexico and some questions on income expectations in the case of Colombia. The control function approach has several advantages, including the fact that an F-test on the joint significance of the coefficients on the powers of the estimated residuals from the first stage can be easily interpreted as a test of endogeneity of the relevant variables. Both in the case of Mexico and Colombia, the powers of the estimated residuals turned out to be statistically different from zero. Moreover, the pattern of the estimated coefficient and elasticities varied in an economically significant way when we allow for endogeneity

6.1 Mexico

6.1.1 Income elasticities

As can be checked in the Appendix table, all the λ_i , the coefficient on the quadratic term in total expenditure in equation 1 are statistically different from zero. This implies that the income elasticity changes with the log of total expenditure and that expenditure shares are not linear in log total expenditure.
Figure 5.M shows the Engel curves implied by our estimates. These plot, for a representative household,¹² the share of each commodity as a function of the log of total expenditure. As expected, rice and corn are necessities, while animal products (meat, dairy product etc.) are luxuries. The share of fruit and vegetables, instead, does not change much with total expenditure. Pulses (beans) seem to be a necessity. The one result that is somewhat surprising is the fact that the share of wheat and other starches (mainly potatoes) is predicted to increase with total log expenditure on food. These increases, however, are not particularly large.

To check how our model fits the data, in Figure 6.M, for each of the eight commodity groups we consider, we plot against log food expenditure, the average shares in the data and how predicted by the model. Figure 6.M differs from 5.M because it does not keep demographics and prices fixed at some level, but let them vary as in the sample. The figure shows that the model fits the data relatively well. With the possible exception of rice, the model mirrors the patterns in the data very closely. The predicted share of rice falls and then rises as income increases; this is perhaps the least best match, missing out the initial rise in rice share and the magnitude of the fall in share as expenditure increases. The predicted share of corn rises at low levels of expenditure and then falls as log of expenditure exceeds about 6.5. The share of wheat increases monotonically as total expenditure increases, and the share of pulses declines monotonically; the model captures this very well. The share of fruits and vegetables first falls as total expenditure rises and then increases, whilst the meat and dairy share rises as total expenditure increases until very high incomes. The predicted share for other foods is almost the inverse; falling with total expenditure but then flattening off. The share of other starches, like rice, is not the best fit but our model does capture the increase in share for the highest incomes.

 $^{^{12}}$ We consider a family headed by a 45 year old male with primary education, not indigenous and with three children. All the other variables (prices in particular) are set to the sample average.

Income elasticities are computed for each household using equation (3) and the estimated parameters. We report the elasticities evaluated at the mean in the first column of Table 14. The pattern of elasticities reflects the shape of the Engel curves plotted in figures 5.M.

To gauge the level of heterogeneity in elasticities, in Table 4.b.M, we report the average income elasticities for each decile of food expenditure. Again, the pattern of income elasticities follow closely those plotted in Figure 5.M. The variability of the elasticity reflects the importance of the quadratic terms

6.1.2 Price elasticities

In Tables 16.M, we report both uncompensated (Marshallian) and compensated (Hicksian) own and cross price elasticities evaluated at the mean and computed using the formula in equation (2). The own price elasticities are all negative, as predicted by the theory. Note that corn is substitute with wheat and rice. The compensated elasticities are particularly large and significant. Perhaps surprisingly, wheat and rice appear to be complements, and corn is a complement with pulses and other food. Notice that it substitutes also protein and vegetables. Interestingly animal products, in terms of uncompensated elasticities, complement all other commodities. However, in terms of compensated elasticities, they complement only rice and other starches. Rice appears to be a complement to wheat, fruit and vegetables and animal proteins. Wheat is a substitute for other starches and corn.

Given the nature of our demand system, price elasticities will vary across households. In Table 16.b.M, we explore some of this variation. In particular, focusing on the uncompensated own price elasticities, we explore how they vary with total food expenditure and with various household characteristics. First we notice that, by and large, and with the exception of animal products and other starches, price elasticities are larger, in absolute value, for the poorest families. As for demographic effects, the one commodity for which the own price elasticity varies considerably is animal products. For instance, in a male headed household with no children it is, on average, -0.82, while with three or more children is -0.75.

Table 16.c.M repeats the same exercise as Table 16.b.M, but for compensated elasticities. With the exception of rice, pulses and, to a less of an extent other starches, the price own elasticities do not seem to vary much. For rice and pulses, the elasticities decrease with total expenditure. There are no large variations for the compensated elasticities with demographic variables.

6.2 Colombia

The details for the demand system estimated for Colombia can also be found in the Appendix. As in the case of Mexico, several of the quadratic terms turned out to be important and statistically different from zero. However, these terms are not as important as in Mexico. The presentation of our results for Colombia mirrors that for Mexico. We first discuss the income elasticities and then the implied price elasticities.

6.2.1 Income elasticities

In Figure 5.C, as in Figure 5.M we plot the predicted share for our eight commodities as a function of total food expenditure. As in Figure 5.M, the predicted shares were calculated for a representative family in terms of demographics and at the average values of other variables, such as prices.

We notice that rice, pulses, other starches (potatoes, yucca and other roots) and to a less extent wheat are necessity whose share decreases with total expenditure. Corn is formally a luxury, although its share increase with total expenditure only very slightly, by about half a percentage point over the relevant interval for total food expenditure. Animal products is clearly a luxury, while fruit and vegetables are a luxury at very low levels of total food expenditure and become then a necessity.

As with the Mexican data, we check the goodness of fit of our system

plotting, in Figure 6.C, actual and predicted expenditure shares against total food expenditure. From the picture it is clear that, for all eight commodities, the predicted shares track very well the actual ones. Our model, therefore, seems to fit the data relatively well.

We report the average income elasticities in the second column of Table 14. As with Mexico, the pattern of coefficients is consistent with the patterns observed in the pictures. The only real luxury is Animal products, while other starches and rice and pulses are necessities.

In Table 14b.C, we explore how income elasticities change with the level of log consumption expenditure. As can be observed, fruit and vegetables have an income elasticity just above 1 for the lowest percentiles of total expenditure, which then declines to 0.86. Pulses also exhibit a large variation in elasticities.

6.2.2 Price elasticities

As with the Mexican results, we report both compensated and uncompensated price elasticities. We start, in Table 15.C, with the two sets of elasticities evaluated at the mean. As with Mexico, all own price elasticities are, consistently with the theory, negative. The uncompensated elasticities, compared with those estimated in Mexico, are larger in absolute value, with the one for pulses being particularly noticeable at -2.

Looking at some of the patterns of cross elasticities, we notice that, as with Mexico, animal products seems to complement all other products, as determined by the uncompensated elasticities. In compensated terms, however, animal products seem to substitute pulses, fruit and vegetables, rice and other. The absolute value of these elasticities are, however, quite small. Among the starches, we find that rice is a substitute of wheat and a complement of corn.

In Table 15b.C, we start exploring the heterogeneity of price elasticities in terms of expenditure levels and demographic variables, as it was done in Table 15b.M. Unlike in Mexico we find that the absolute value of the uncompensated price elasticities increases with total food consumption for rice, pulses and, to an extent, for animal products. Instead it decreases for wheat, other starches, other goods and fruit and vegetables. There are no huge variations with demographic variables.

Analogous observations can be made for the compensated elasticities, reported in Table 15c.C, where the one for rice and pulses increases considerably in absolute value with total expenditure. The one for meat, however, now declines with total expenditure. The other elasticities do not change much.

7 Welfare analysis

Whilst the estimated QUAIDS parameters and the implied income, ownprice and cross-price elasticities, are interesting in their own right, of perhaps greater policy relevance is what these results imply for the welfare effects of changes in the food prices. The demand system we have estimated allows us to quantify the welfare loss for the population that is the target of the Conditional Cash Transfers in Colombia and Mexico. We can also quantify the distributional effects of these price changes *within this population*. Finally, we can also study the effect of alternative policies that could be designed to alleviate the problems faced by these families.

In this section, we compute the impact of both actual and counterfactual changes in food prices, and simulate the effects of a few policies the government may use to compensate consumers, including income transfers and price-subsidies. We are able to estimate the welfare impact of price changes for each household separately and can apply different price changes for each locality.

We present welfare impacts in terms of compensating variation: the amount of additional income households would require to make them indifferent between the old price vector (and original income) and the new price vector. This computation is performed using the expression in equation (4) for each household in the sample. For example, to asses the welfare effects of a specific set of price increases, such as the increases observed between 2003 and 2007, given the household characteristics and the estimated parameters we compute x_{2007}^* , total expenditure in 2007 that would obtain the same level of welfare as in 2003, given the 2007 prices. This quantity solves the following equation:

$$\left\{ \left[\frac{\ln x_{2003} - \ln a(p_{2003})}{b(p_{2003})} \right]^{-1} + \lambda(p_{2003}) \right\}^{-1} = \left\{ \left[\frac{\ln x^* - \ln a(p_{2007})}{b(p_{2007})} \right]^{-1} + \lambda(p_{2007}) \right\}^{-1}$$
(6)

In making this computation we adjust the 2007 prices for the average rate of inflation between the two years, therefore implicitly assuming that nominal income keeps up for the average level of inflation. Our exercise, therefore, focuses on the effect of the *real* increase in food prices. For each of the two countries we consider several experiments. In particular, we input both actual price increases and hypothetical scenarios where only the prices of some commodities increase. In correspondence to each scenario, then we consider alternative policy options.

7.1 Mexico

For Mexico, we compute the welfare effects of :

- 1. Prices increases in each locality equal to the actual nominal increase in prices between the 2003 and 2007 surveys.
- 2. 50% increases in the prices of rice, corn and wheat (but not the other commodities) in each locality.

The policy experiments we consider in each of the two price scenarios are:

- A 50 peso lump-sum transfer to all households.
- A government price subsidy equal to 5% of the new goods price.

7.1.1 Actual 2003 – 2007 Price Changes

As we saw at the beginning of this paper, the period 2003 to 2007 witnessed a significant rise in prices for many food items, particularly grains, and particularly towards the end of the period. If the increase in food prices was not matched by an increase in family incomes, this would mean the living standards of families declined over this period, potentially quite significantly.

In our first exercise, we study the effect of these price increases on the welfare of the households in the Oportunidades data set. Having estimated the demand system, we can solve for x_{2007}^* in equation (6) for each household in the sample. In the first panel of Table 16.M, we report the mean and some percentiles of the distribution of compensating variations. In addition to the peso figures, we also express the compensating variation as percentage of current expenditure. We see that the increases in food prices observed over this period have a potentially devastating effect. At the mean (median), they are equivalent to a 13% (12%) reduction in welfare. The welfare losses are also very heterogeneous: the 5th percentile of the welfare losses is only 1.5%, while the 95th percentile is a staggering 32.3%.

In the second panel of the same Table we consider the effects of providing each family in the sample with a 50 pesos per month subsidy. It should be remembered that a large fraction (almost 80%) of our sample is made of beneficiaries of the programme Oportunidades. In 2007, Oportunidades actually added to their grant 50 pesos per month which were labeled as a subsidy for energy consumption, the idea being that it would help the beneficiary households to cope with the increase in the price of energy. The order of magnitude of our first policy experiment, therefore, is in line with at least one specific initiative. Perhaps not surprisingly, the effect of this subsidy is to reduce the welfare loss induced by the price increases. At the mean and at the median, the reduction is of about five percentage points (of the initial 12-13%).

In the third panel of Table 16.M, we consider an alternative policy, which consists in providing a 5% subsidy to all prices. This option is obviously much more expensive, if nothing else, because it is not targeted to a specific sector, such as the beneficiaries of Oportunidades, but would affect the entire Mexican population. Moreover, such a policy would introduce distortions in the price systems whose effects are not considered in our computations. Having said that, the effect of such a subsidy would not be substantially better than that of the 50 pesos increase in the grant.

To consider the distributional effects of the price changes and of the different policies we have considered so far, in Figure 7.M we plot the compensating variations in the three scenarios considered in Table 16.M against log total food expenditure. The dotted line, which represents the welfare losses of the actual price increases, shows that they have been very regressive. For households at the bottom of the expenditure distribution, the welfare loss is equivalent to a reduction of 18% in total consumption, while for households at the top of the expenditure distribution, it is equivalent to a decrease of 15%.

Moving to the policy experiments, we see that the welfare losses resulting from the 5% price subsidy, which are the solid line in Figure 7.M, simply shift down the welfare losses of the actual price increases, so that the overall loss is smaller but remains regressive. On the other hand, the dashed line, which represents the effect of the 50 pesos transfer, reduces greatly the regressivity of the price increases and attenuates their effect much more for the poorest families than for the less poor ones.

In Table 17.M, we look at the distribution of the welfare losses in other dimensions. In the top panels of the Table, we compute the welfare losses in each of the seven states in the sample and discover strong differences. For instance, in Hidalgo, the average welfare loss induced by the 2003-2007 price increases is only 7.4% of expenditure, while in Veracruz is as high as 18%. Interestingly, there does not seem to be a monotonic relationship between the average income of the state and the size of the welfare loss. Two of the poorer states, Guerrero and Veracruz, are at the extreme of the distribution of welfare losses, with 8.7% and 18%, respectively. The same applies to the better off states, such as Hidalgo (7.4%) and San Luis Potosí (15%).

When looking at the effect of the different policies, we find that those we considered reduce the loss by about 5 or 6 percentage points. In the case of Guerrero, the cash transfer is actually marginally better on average than the price subsidy.

In the bottom part of the Table, we consider 9 different types of families, differing in terms of the gender of the head and number of children. An additional group is given by households headed by elderly individuals with no children. When we look at different type of households, we do not find large differences. The policy experiments results are in line with the one reported in the other Tables and graphs.

In addition to the welfare loss, it might be interesting, for a variety of reasons, to check what is the effect of the price increases and of the alternative policies considered on expenditure shares. The pattern of expenditure shares has obvious implications, for instance, for nutrition. It has been argued that the share of animal products in these families food basket might be sub-optimal and might affect the nutritional status of young children and jeopardize their development. We report our computations on the impact of the price changes on expenditure shares in Table 18.M.

Perhaps surprisingly, the expenditure shares of various starches do not change much as an effect of the observed increases in prices, and the share of corn increases. The effect on the share of animal products is quite negative, indicating a reduction of 1.5 percentage points. This is induced by the strong income effects that the increases have and by the pattern of substitutions estimated in the model. As for the policy experiments, they are both quite successfull in reducing the decline in the share of animal products.

7.1.2 Counterfactual Price Changes

Here we estimate the impact of hypothetical price changes. In particular we consider the impact of a 50% increase in the prices of rice, corn and wheat. The results are shown in table 19.M. The size of the losses is, on average, slightly larger than what we observed for the actual price changes considered in the previous subsection. However, the changes are much more concentrated: the 1st percentile of the welfare loss is 11.4%, and the 99th percentile is now less than 18%. As for the policy analysis, we find that, if the increase is concentrated in the three commodities we are considering, then the cash transfer is much more effective than the 5% price subsidy we considered.

To analyze the distributional consequences of this type of increase in prices and of the different policy alternatives, as with the previous scenario, we plot welfare losses against total expenditure. A doubling of the prices of rice, corn and wheat is even more regressive than the actual price increases (notice the different scale of the graphs): the welfare loss goes from 15% for the poorest consumers in our sample to less than 10% for the least poor. As before, the 5% price subsidy does not change the regressivity of the effects, while a cash transfer makes the overall effect progressive.

Table 20.M explores other distributional effects, looking, as Table 17.M, at regional effects and at the effects of demographic factors. As before, neither of these two sources of heterogeneity seems particularly important.

Finally, to conclude the analysis for Mexico, in Table 21.M we report the effect of the counterfactual changes on expenditure shares. As before we find a large increase in the share of expenditure on corn and a decline in animal

products. These effects are somewhat attenuated by a price subsidy and to a larger extent by a cash transfer.

7.2 Colombia

For Colombia, we consider similar price scenarios to those considered in Mexico and similar policies. In particular, as with Mexico, we consider the effect of the actual price increases for all commodities in the period 2003-2007. We then consider the effect of a 50% in rice, corn and wheat. And for each of these scenarios we consider a cash transfer of 10,000 pesos and a price subsidy. Of course, the results will be different for two different reasons: the price increases experienced by Colombia over the 2003-2007 period were not the same and the coefficients of the demand system and the patterns of substitution and income effects that they imply as a consequence of a given price change are different.

7.2.1 Actual 2003 – 2007 Price Changes

We illustrated in Section 3 the dynamics of price increases in Colombia. In Table 16.C we report the effect of the actual price increases experienced by Colombia in a way that is comparable to the figures in Table 16.M for Mexico.

The effects are, on average, much larger than in Mexico: the price increases induce a mean (and median) welfare loss equivalent to a reduction of 30% in consumption. The range of variation in the sample, however, is much narrower than in Mexico: welfare losses vary from 27.2% for the 1st percentile to 32.6% for the 99th percentile.¹³

A 10,000 pesos cash transfer reduces the mean (median) welfare loss to

¹³The reason losses are much more "concentrated" is because we assume all municipalities face the same price rise (unlike in Mexico where it differs by municipality). We are forced to this assumption by the fact that we cannot use our suvrey (as it was taken before 2007) but we have to use national statistics. Hence the difference in welfare losses is due to different shares of each good and different degrees of price responsiveness (and not different price rises as is the case in Mexico).

26.7% (27.2%), while the 5% price subsidy reduces it to 24.8% (24.9%). The cash transfer reduces much more the smaller losses (for instance the tenth percentile goes from 28.5 to 22.9) than the larger ones (the 90th percentile goes from 31.4 to 29.9). The price subsidy, instead, moves the distribution of losses down by about 5%, uniformly.

As with Mexico, to look at the distributional effects of the price changes and of the policies considered, we plot welfare losses against log of total food expenditure. This is done in Figure 7.C. Unlike in Mexico, the actual price increases over the period 2003-2007 are slightly progressive, with losses rising from about 29% of food expenditure to just over 30%. As for the policies, perhaps not surprisingly the message is similar to the one for Mexico. A price subsidy shifts the curve down, while a cash transfer increases the progressivity of the effect, so that the effect is almost completely eliminated at the bottom of the distribution, and it is reduced to about 28% at the top.

In Table 17.C, which is the equivalent of 17.M, we explore other dimensions of heterogeneity of the effects of price increases. Our sample includes 22 of the 31 districts in the country¹⁴. The top panel of Table 17.C shows that there are no large differences in the welfare effects of price increases across administrative districts.

In the bottom panel of Table 17.C, we consider, as with Mexico how the welfare effects change with the demographic composition of the household. Again, no large differences emerge in this dimension.

Finally, in Table 18.C we consider the effect of the price increases and of the alternative policies considered on expenditure shares. As with Mexico, the actual price increases determines a decline in the share of animal products. However, in the case of Colombia, the effect is quite large at almost 5 percentage points. The share of rice, which is the most important staple, also declines and that of other starches (mainly potatoes) increases

¹⁴Excluded are some sparsely populated areas in the Amazon River region and some areas in the south of the country that had been badly affected by the civil conflict.

substantially, as they have become substantially cheaper.

7.2.2 Counterfactual Price Changes

As with Mexico, we consider also a simulation in which we increase the price of corn, rice and wheat by 50%. We report the results of this exercise in Table 19.C. If we compare these effects with those obtained for Mexico in Table 19.M, we notice that for this equivalent increase in prices, the effect in Colombia is smaller. In particular, we find that at both the mean and median, the welfare loss is about 8.6%, against 14.3% in Mexico. The range of welfare losses, however, is similar in the two countries. As with Mexico, the price subsidy shifts the losses down over the whole range, while the cash transfer is particularly effective in offsetting small losses.

Moving to the distributional consequences of such an increase, in Figure 8.C, we observe that the increase is now regressive and that, as in the case of Mexico, a cash transfer makes it progressive, while a price subsidy simply shifts the curve down without changing its slope.

In Table 20.C, we look at how the welfare losses induced by the different price increases and policies considered in this section differ across districts and family types. Once again, we do not find large differences.

Finally, looking at the impact on budget shares in Table 21.C, we find that a 50% increase in the price of rice, corn and wheat, decreases substantially the share of rice, increases the one of other starches and pulses and decreases the share of animal products. The policies considered only marginally reduce these effects. Of the two policies considered, the cash transfer seems to be more effective in reducing the decline in the share of animal products and, therefore, the nutritional impact of the price increases.

8 Conclusion

Estimation of detailed demand models is usually done on aggregated data. This is the first large scale estimation of price responsiveness of food demand for Mexico and Colombia on individual household data, and probably one of the first such exercises on any data from the region. But what is particularly interesting in the data we use, is that they include exclusively very poor households, as they were collected for the evaluation of two conditional cash transfer programs. We exploit variation in prices across localities and over time to estimate the parameters of a rich demand system which, in turn, allows us to assess both income and substitution effects of price changes.

Having estimated the relevant parameters, and having described the elasticities they imply, we use the relevant indirect utility function to estimate the welfare consequences of the price increases for each household in our samples. Notice that as we can control for several factors (such as regional effects and demographic composition), and that we are able to allow for large amount of heterogeneity in the impacts of food prices changes. Using the indirect utility function is equivalent to computing a 'true' price index that takes into account the substitution possibility and, most importantly, the relevance of the food share for these households. We can therefore characterize both the mean welfare effect of the price increases and their distributional consequences.

In addition to quantifying the welfare consequences of different sets of price increases for the households in our samples, we can also compute the effects of alternative policies. In particular, we consider two policies that are often considered in the policy debate. The first is a subsidy to prices. The second is a cash transfer. It should be noticed that the latter policy has many advantages over the first, some of which are not considered in our simulations. First, it is much better targeted and, probably, much less expensive than a generalized price subsidy. Second, it avoids the introduction of distortions and allows for supply responses. Third, as our simulations show, it moderates or even reverses the regressivity of some price increases.

Our work is not without limitations and much has been left for future research. Two extensions seem particularly important. First, we have not considered commodities other than food nor have we considered labour supply. This assumes that food is separable both from other commodities and from labour supply. If these assumptions are violated, our results could be biased. Second, we have not allowed for any income effects induced by supply factors. If some of our households produce items whose price increases, this would be reflected in an increased income. This point, made by Deaton (1989), Ravallion and Lokshin (2004) and Ravallion and van de Walle (1991) could be easily incorporated in our analysis, especially if one is interested in a situation where production decisions are not modeled explicitly and one takes them as given in the short run. In this case, the price increase has a positive income effect for producer whose size, as a first order approximation, is simply given by the current output times the price increase.

9 References

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| FOOD | WORLD | MEXICO | COLOMBIA | OPORTUNIDADES |
|--------------|-------|--------|----------|---------------|
| <u>Rice</u> | | | | |
| % increase: | | | | |
| 2003-2007 | 64.4 | 32.6 | 17.6 | 33.2 |
| 2006 | 8.7 | -9.1 | 17.3 | n/a |
| 2007 | 20.6 | 15.8 | 0.00 | n/a |
| 2008 | 83.5 | 51.0 | 38.2 | n/a |
| <u>Corn</u> | | | | |
| % increase: | | | | |
| 2003-2007 | 57.5 | 48.8 | 2.5 | 53.7 |
| 2006 | 56.4 | 31.4 | 32.2 | n/a |
| 2007 | 9.2 | -0.4 | -6.1 | n/a |
| 2008 | 13.3 | 20.9 | 20.6 | n/a |
| <u>Wheat</u> | | | | |
| % increase: | | | | |
| 2003-2007 | 127.3 | 94.9 | 70.0 | 41.2 |
| 2006 | 22.2 | 12.2 | 17.6 | n/a |
| 2007 | 88.0 | 57.1 | 43.5 | n/a |
| 2008 | -20.0 | -18.3 | -0.01 | n/a |
| <u>Meats</u> | | | | |
| % increase: | | | | |
| 2003-2007 | 17.8 | 27.4 | 40.8 | 30.3 |
| 2006 | 6.6 | 4.5 | 3.8 | n/a |
| 2007 | 0.2 | 7.2 | 23.9 | n/a |
| 2008 | 6.7 | 5.4 | -3.9 | n/a |

| Table 1: World, Mexico | , Colombia and | Oportunidades | Prices |
|------------------------|----------------|---------------|--------|
|------------------------|----------------|---------------|--------|

Notes:

For the increase 2003-2007 we use the price value in October (not for Mexico prices that start from December 2003), in order to match the period in which interviews were conducted in our survey. Increases in 2006 and 2007 are betwen price value in January and December, 2008 is between January and September.

World prices: Rice (Rice, 5 percent broken milled white rice, Thailand nominal price quote) Corn (Maize (corn), U.S. No.2 Yellow, FOB Gulf of Mexico), Wheat (Wheat, No.1 Hard Red Winter, ordinary protein, FOB Gulf of Mexico), Meats (Beef, Australian and New Zealand 85% lean fores, FOB U.S. import price).

Mexico prices: These are producer prices (for the national market) and include the following foods in each group: Rice (Rice), Corn (Maize Tortilla, Maize grain, Breakfast cereals), Wheat (White bread, Sweet bread, Loaf of bread, Wheat flour, Biscuits), Meats (Chicken, Beef and pork, Goat and sheep, Fish, Sardines and tuna, Eggs, Milk Cheese, Lard) *Colombia prices:* These are the average reference prices from the Colombia agricultural exchange (Bolsa Nacional Agropecuaria).

Oportunidades prices: These are an average of the median locality unit values in our sample. Each group includes the same foods as in Mexico prices

Table 2.M: Demographic Characteristics of Sample - Mexico

| Demographic Variable | Oct-98 | May-99 | Nov-99 | Nov-00 | 2003 | 2007 |
|-----------------------------|--------|--------|--------|--------|---------|---------|
| Headed by Male | 89.4% | 89.3% | 88.1% | 88.0% | 86.3% | 79.7% |
| Age of Head | 47.2 | 47.5 | 46.5 | 49.1 | 47.9 | 48.0 |
| Headed by Indiginous Person | 33.3% | 33.5% | 30.7% | 32.6% | 34.1% | 25.4% |
| Oportunades Operating | 61.7% | 61.6% | 59.9% | 100.0% | 100.0% | 100.0% |
| Household Size | 5.5 | 5.2 | 5.2 | 5.0 | 5.2 | 5.8 |
| Number of Children Under 11 | 1.7 | 1.8 | 1.4 | 1.8 | 1.3 | 1.1 |
| Number of Children Over 11 | 1.5 | 1.5 | 1.4 | 1.5 | 1.5 | 1.3 |
| Food Expenditure | 805.50 | 780.58 | 775.21 | 797.61 | 1085.17 | 1280.47 |

Table 2.C: Demographic Characteristics of Sample - Colombia

| Demographic Variable | Oct-03 | Mar-06 |
|-----------------------------|-----------|-----------|
| Headed by Male | 79.20% | 75.5% |
| Age of Head | 45.73 | 47.42 |
| Household Size | 6.09 | 6.00 |
| Number of Children Under 11 | 2.13 | 1.83 |
| Number of Children Over 11 | 1.10 | 1.18 |
| Food Expenditure | 336789.10 | 320543.10 |

Notes: Food Expenditures measured in nominal prices. Additional Demographics available but not used in analysis.

| | | %change 98-07 | | | | | |
|----------------------|--------|---------------|--------|--------|------|------|-------|
| FOOD | OCT 98 | MAY 99 | NOV 99 | NOV 00 | 2003 | 2007 | • |
| 1 Tomatoes | 5.6 | 3.9 | 4.4 | 5.0 | 5.2 | 6.5 | 16.1 |
| 2 Onions | 2.9 | 2.5 | 2.5 | 3.0 | 2.4 | 2.9 | 0.0 |
| 3 Potatoes | 2.3 | 2.2 | 2.4 | 2.6 | 2.6 | 3.1 | 34.8 |
| 4 Carrots | 0.2 | 0.2 | 0.1 | 0.2 | 0.3 | 0.4 | 100.0 |
| 5 Leafy Vegetables | 0.3 | 0.2 | 0.2 | 0.5 | 0.4 | 0.5 | 103.8 |
| 6 Oranges | 1.6 | 0.7 | 2.0 | 2.8 | 1.7 | 1.5 | -6.3 |
| 7 Bananas | 1.4 | 1.5 | 1.6 | 1.7 | 2.1 | 2.0 | 42.9 |
| 8 Apples | 0.7 | 0.3 | 0.6 | 0.7 | 1.5 | 1.5 | 120.6 |
| 9 Lemons | 0.8 | 0.8 | 0.8 | 0.8 | 1.1 | 1.1 | 44.7 |
| 10 Pricky pears | 0.6 | 1.2 | 0.4 | 0.5 | 0.7 | 0.9 | 48.3 |
| 11 Tortilla | 21.0 | 19.0 | 21.0 | 19.0 | 24.0 | 22.0 | 4.8 |
| 12 Maize Grain | 7.9 | 12.0 | 5.8 | 4.9 | 3.1 | 6.8 | -13.9 |
| 13 White Bread | 0.7 | 0.7 | 0.7 | 0.6 | 1.4 | 1.0 | 32.4 |
| 14 Sweet Bread | 1.3 | 1.5 | 2.0 | 1.7 | 2.7 | 1.7 | 30.8 |
| 15 Loaf of Bread | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 13.1 |
| 16 Wheat Flour | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | -4.0 |
| 17 Pasta Soup | 2.3 | 2.2 | 2.4 | 2.2 | 2.1 | 1.9 | -17.4 |
| 18 Rice | 2.2 | 2.2 | 2.2 | 2.4 | 1.9 | 2.2 | 0.0 |
| 19 Salt Cakes | 0.5 | 0.5 | 0.4 | 0.5 | 0.7 | 0.7 | 39.6 |
| 20 Beans | 12.0 | 11.0 | 11.0 | 9.4 | 7.4 | 7.6 | -36.7 |
| 21 Breakfast Cereal | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 174.0 |
| 22 Chicken | 5.2 | 5.9 | 6.8 | 8.4 | 7.0 | 6.5 | 25.0 |
| 23 Beef and Pork | 2.2 | 2.6 | 3.2 | 2.9 | 3.7 | 2.8 | 27.3 |
| 24 Lamb and Goat | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | -31.5 |
| 25 Fish | 0.1 | 0.2 | 0.1 | 0.2 | 0.4 | 0.3 | 161.5 |
| 26 Tinned Fish | 0.3 | 0.4 | 0.7 | 0.4 | 0.6 | 0.4 | 18.2 |
| 27 Eggs | 5.2 | 5.5 | 5.4 | 6.1 | 4.4 | 5.0 | -3.8 |
| 28 Milk | 2.4 | 2.1 | 2.5 | 2.8 | 4.2 | 4.2 | 75.0 |
| 29 Cheese | 0.8 | 0.6 | 0.7 | 1.1 | 1.7 | 1.8 | 140.0 |
| 30 Lard | 1.0 | 1.0 | 0.9 | 0.8 | 0.7 | 0.3 | -68.0 |
| 31 Sweets | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 19.0 |
| 32 Carbonated Drinks | 1.4 | 1.9 | 1.5 | 2.3 | 3.2 | 2.4 | 71.4 |
| 33 Alcoholic Drinks | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.2 | -33.3 |
| 34 Coffee | 5.1 | 5.0 | 5.0 | 4.4 | 2.5 | 2.7 | -47.1 |
| 35 Sugar | 5.2 | 5.7 | 6.0 | 5.5 | 4.8 | 4.0 | -23.1 |
| 36 Vegetable Oil | 5.7 | 6.1 | 6.3 | 6.0 | 4.0 | 4.5 | -21.1 |

Table 3.M: Foods and Mean Shares of Expenditure - Mexico

Table 3.C: Means and Shares of Expenditure - Colombia

| | | AVG SH | IARE (%) | | | AVG SHARE (%) | | | | | AVG SHARE (%) | | | |
|----|------------------------|--------|----------|---------|----|-----------------|--------|---------|---------|----|-----------------------|--------|---------|---------|
| | | July - | Nov 05- | %change | | | July - | Nov 05- | %change | | | July - | Nov 05- | %change |
| | Food | Oct-03 | Mar-06 | 06-03 | | Food | Oct-03 | Mar-06 | 06-03 | | Food | Oct-03 | Mar-06 | 06-03 |
| 1 | Rice | 10.49 | 10.42 | -0.64 | 37 | Tangarines | 0.29 | 0.21 | -28.47 | 73 | Yam | 0.32 | 0.80 | 148.03 |
| 2 | Bread | 2.51 | 2.76 | 10.00 | 38 | Banana | 0.70 | 0.75 | 6.73 | 74 | Yucca | 2.66 | 2.78 | 4.66 |
| 3 | Biscuits | 0.92 | 1.54 | 67.17 | 39 | Melon | 0.02 | 0.02 | 8.44 | 75 | Other root veg | 0.08 | 0.05 | -36.01 |
| 4 | Other bread products | 0.09 | 0.07 | -15.21 | 40 | Mango | 0.46 | 0.66 | 42.79 | 76 | Condiments | 0.59 | 0.57 | -3.25 |
| 5 | Pasta/Vermicellli | 1.79 | 1.66 | -7.57 | 41 | Guava | 1.56 | 0.50 | -68.00 | 77 | Tomato sauce, etc | 0.19 | 0.21 | 13.06 |
| 6 | Barley Cereal | 0.08 | 0.07 | -7.32 | 42 | Blackberry | 0.30 | 0.23 | -25.53 | 78 | Juice concentrates | 0.58 | 0.55 | -4.60 |
| 7 | Malt Soup | 0.06 | 0.05 | -14.40 | 43 | Passion Fruit | 0.31 | 0.16 | -47.70 | 79 | Coffee | 3.14 | 3.37 | 7.44 |
| 8 | Corn Soup | 0.12 | 0.13 | 6.58 | 44 | Pineapple | 0.38 | 0.27 | -28.79 | 80 | Chocolate/Cocoa | 1.03 | 0.97 | -5.56 |
| 9 | Wheat Soup | 0.04 | 0.04 | 23.92 | 45 | Coconut | 0.16 | 0.16 | 4.48 | 81 | Aromatic herbs | 0.13 | 0.11 | -19.92 |
| 10 | Corn flour | 0.24 | 0.32 | 32.97 | 46 | Other fruit | 1.07 | 0.85 | -20.23 | 82 | Salt | 0.75 | 0.82 | 9.48 |
| 11 | Precooked corn flour | 1.22 | 0.93 | -23.52 | 47 | Green beans | 0.67 | 0.52 | -22.79 | 83 | Sugar (refined, brown | 2.93 | 2.86 | -2.26 |
| 12 | Corn | 1.28 | 1.01 | -20.56 | 48 | Carrots | 0.76 | 0.63 | -17.22 | 84 | Unprocessed Sugar | 3.25 | 2.98 | -8.37 |
| 13 | Wheat Flour | 0.67 | 0.64 | -5.76 | 49 | Broad beans | 0.12 | 0.04 | -63.64 | 85 | Vegetable oil | 4.02 | 4.17 | 3.61 |
| 14 | Infant Feeding Cereals | 0.32 | 0.14 | -54.23 | 50 | Tomatoes | 1.51 | 1.46 | -3.36 | 86 | Vegetable fat | 0.59 | 0.55 | -6.80 |
| 15 | Hueso de res | 2.34 | 2.22 | -5.09 | 51 | Spring Onions | 0.97 | 0.92 | -4.99 | 87 | Butter | 0.21 | 0.25 | 22.33 |
| 16 | Menudencias de pollo | 1.00 | 0.88 | -11.40 | 52 | Onions | 0.90 | 0.95 | 5.75 | 88 | Margarine | 0.06 | 0.06 | -7.09 |
| 17 | Chicken/hen | 3.90 | 3.49 | -10.56 | 53 | Cob | 0.70 | 0.28 | -60.05 | 89 | Lard | 0.12 | 0.08 | -34.53 |
| 18 | Beef without bone | 5.09 | 5.76 | 13.20 | 54 | Green peas | 0.29 | 0.23 | -20.71 | 90 | Lemonade | 0.29 | 0.41 | 37.49 |
| 19 | Beef with bone | 0.67 | 0.83 | 23.66 | 55 | Lettuce | 0.09 | 0.11 | 19.42 | 91 | Packaged drinks | 0.03 | 0.05 | 33.55 |
| 20 | Mincemeat | 0.11 | 0.19 | 70.18 | 56 | Kidney beans | 0.48 | 0.21 | -56.59 | 92 | Powdered cool drinks | 0.34 | 0.53 | 57.08 |
| 21 | Pork without bone | 0.83 | 0.73 | -12.14 | 57 | Spinach | 0.12 | 0.05 | -60.83 | 93 | Bottled water | 0.11 | 0.20 | 77.46 |
| 22 | Pork with bone | 0.76 | 0.43 | -43.46 | 58 | Beet | 0.04 | 0.03 | -14.96 | 94 | Eggs | 3.08 | 3.73 | 21.06 |
| 23 | Goat/Sheep | 0.15 | 0.06 | -59.22 | 59 | Cabbage | 0.35 | 0.28 | -19.10 | 95 | Avena (oats) | n/a | 0.50 | n/a |
| 24 | Other bird meat | 0.07 | 0.17 | 124.46 | 60 | Garlic | 0.52 | 0.55 | 4.53 | 96 | Bienestarina | n/a | 0.78 | n/a |
| 25 | Canned meat | 0.09 | 0.11 | 31.49 | 61 | Aji | 0.59 | 0.30 | -47.92 | 97 | Liver | n/a | 0.18 | n/a |
| 26 | Cold meats | 0.24 | 0.32 | 33.65 | 62 | Other green veg | 0.23 | 0.07 | -68.35 | | | | | |
| 27 | Tongue, feet, etc | 0.32 | 0.16 | -49.00 | 63 | Chick peas | 0.10 | 0.08 | -24.57 | | | | | |
| 28 | Fish | 3.66 | 4.75 | 29.74 | 64 | Dry peas | 0.42 | 0.40 | -4.23 | | | | | |
| 29 | Seafood | 0.03 | 0.04 | 22.98 | 65 | Dry beans | 2.32 | 2.04 | -12.41 | | | | | |
| 30 | Tuna/Sardines | 0.88 | 1.06 | 19.89 | 66 | Lentils | 0.98 | 1.04 | 5.70 | | | | | |
| 31 | Milk | 5.00 | 4.39 | -12.21 | 67 | Other grains | 0.07 | 0.09 | 28.84 | | | | | |
| 32 | Powdered milk | 1.18 | 1.39 | 18.27 | 68 | Plantains | 3.13 | 3.44 | 10.10 | | | | | |
| 33 | Curdled cheese | 2.58 | 1.96 | -23.88 | 69 | Small plantain | 0.67 | 0.66 | -1.13 | | | | | |
| 34 | Other dairy products | 0.53 | 0.35 | -33.13 | 70 | Potatoes | 2.64 | 3.29 | 24.32 | | | | | |
| 35 | Oranges | 0.80 | 0.65 | -18.21 | 71 | Creole potatoes | 0.32 | 0.37 | 14.24 | | | | | |
| 36 | Lemons | 0.98 | 0.69 | -29.01 | 72 | Arracacha | 0.25 | 0.17 | -31.79 | | | | | |

|--|

| | | %change 98-07 | | | | | |
|----------------------|--------|---------------|--------|--------|------|------|-------|
| Food | OCT 98 | MAY 99 | NOV 99 | NOV 00 | 2003 | 2007 | · |
| 1 Tomatoes | 89 | 93 | 96 | 97 | 95 | 93 | 4.5 |
| 2 Onions | 91 | 95 | 96 | 96 | 94 | 91 | 0.0 |
| 3 Potatoes | 51 | 53 | 57 | 61 | 62 | 68 | 33.3 |
| 4 Carrots | 8.4 | 8.3 | 7 | 8.4 | 15 | 17 | 102.4 |
| 5 Leafy Vegetables | 8.6 | 7.8 | 5.6 | 15 | 16 | 16 | 86.0 |
| 6 Oranges | 34 | 17 | 43 | 52 | 40 | 31 | -8.8 |
| 7 Bananas | 43 | 43 | 46 | 50 | 60 | 49 | 14.0 |
| 8 Apples | 15 | 5.9 | 13 | 15 | 33 | 30 | 100.0 |
| 9 Lemons | 31 | 29 | 33 | 31 | 47 | 45 | 45.2 |
| 10 Pricky pears | 16 | 33 | 9.9 | 14 | 16 | 23 | 43.8 |
| 11 Tortilla | 90 | 77 | 88 | 89 | 91 | 77 | -14.4 |
| 12 Maize Grain | 44 | 58 | 30 | 30 | 19 | 35 | -20.5 |
| 13 White Bread | 18 | 15 | 14 | 12 | 26 | 19 | 5.6 |
| 14 Sweet Bread | 30 | 32 | 35 | 30 | 47 | 30 | 0.0 |
| 15 Loaf of Bread | 1.7 | 1.3 | 0.89 | 1.2 | 3.2 | 2.1 | 23.5 |
| 16 Wheat Flour | 6.6 | 3.2 | 5 | 3.5 | 8 | 4.7 | -28.8 |
| 17 Pasta Soup | 68 | 65 | 71 | 66 | 68 | 62 | -8.8 |
| 18 Rice | 64 | 62 | 64 | 70 | 66 | 68 | 6.3 |
| 19 Salt Cakes | 14 | 12 | 10 | 12 | 20 | 18 | 28.6 |
| 20 Beans | 97 | 96 | 97 | 97 | 91 | 94 | -3.1 |
| 21 Breakfast Cereal | 0.98 | 1.4 | 1.3 | 1.5 | 3.1 | 3.5 | 257.1 |
| 22 Chicken | 41 | 45 | 52 | 60 | 58 | 50 | 22.0 |
| 23 Beef and Pork | 19 | 21 | 24 | 22 | 30 | 22 | 15.8 |
| 24 Lamb and Goat | 0.55 | 0.53 | 0.2 | 0.38 | 0.48 | 0.3 | -45.5 |
| 25 Fish | 1.5 | 1.7 | 1.2 | 1.6 | 4.2 | 3.4 | 126.7 |
| 26 Tinned Fish | 6.7 | 6.8 | 11 | 7.2 | 13 | 8.1 | 20.9 |
| 27 Eggs | 83 | 84 | 84 | 88 | 79 | 77 | -7.2 |
| 28 Milk | 26 | 20 | 23 | 27 | 40 | 42 | 61.5 |
| 29 Cheese | 12 | 9.3 | 9.3 | 16 | 25 | 26 | 116.7 |
| 30 Lard | 16 | 16 | 14 | 11 | 13 | 6.7 | -58.1 |
| 31 Sweets | 0.46 | 0.28 | 0.37 | 0.33 | 1.4 | 0.62 | 34.8 |
| 32 Carbonated Drinks | 19 | 20 | 17 | 25 | 37 | 30 | 57.9 |
| 33 Alcoholic Drinks | 2.6 | 1.4 | 1.7 | 1.6 | 2.9 | 1.1 | -57.7 |
| 34 Coffee | 69 | 66 | 70 | 65 | 50 | 43 | -37.7 |
| 35 Sugar | 93 | 94 | 97 | 94 | 92 | 77 | -17.2 |
| 36 Vegetable Oil | 85 | 85 | 89 | 88 | 85 | 76 | -10.6 |

| | (% | Consumi | ng) | | (% Cons | suming) | | | (% Consu | uming) | |
|---------------------------|--------|---------|--------|--------------------|---------|---------|---------|---------------------------|----------|---------|---------|
| | July - | Nov 05- | %chang | e | July - | Nov 05- | %change | | July - | Nov 05- | %change |
| Food | Oct-03 | Mar-06 | 06-03 | Food | Oct-03 | Mar-06 | 06-03 | Food | Oct-03 | Mar-06 | 06-03 |
| 1 Rice | 89.34 | 88.32 | -1.02 | 37 Tangarines | 11.17 | 8.37 | -2.80 | 73 Yam | 8.82 | 21.43 | 12.61 |
| 2 Bread | 61.27 | 62.86 | 1.59 | 38 Banana | 26.65 | 29.09 | 2.44 | 74 Yucca | 60.49 | 66.12 | 5.63 |
| 3 Biscuits | 25.90 | 27.29 | 1.39 | 39 Melon | 2.08 | 1.71 | -0.37 | 75 Other root veg | 3.35 | 2.67 | -0.69 |
| 4 Other bread products | 3.62 | 2.49 | -1.13 | 40 Mango | 11.27 | 14.82 | 3.55 | 76 Condiments | 54.45 | 52.82 | -1.63 |
| 5 Pasta/Vermicellli | 69.69 | 68.12 | -1.57 | 41 Guava | 36.28 | 23.21 | -13.07 | 77 Tomato sauce, etc | 10.60 | 11.70 | 1.09 |
| 6 Barley Cereal | 4.30 | 4.50 | 0.20 | 42 Blackberry | 11.84 | 10.27 | -1.57 | 78 Juice concentrates | 48.82 | 40.54 | -8.28 |
| 7 Malt Soup | 3.23 | 3.43 | 0.20 | 43 Passion Fruit | 10.49 | 7.96 | -2.54 | 79 Coffee | 69.79 | 70.02 | 0.23 |
| 8 Corn Soup | 7.40 | 8.19 | 0.79 | 44 Pineapple | 8.86 | 11.55 | 2.69 | 80 Chocolate/Cocoa | 29.15 | 27.69 | -1.46 |
| 9 Wheat Soup | 1.76 | 2.18 | 0.43 | 45 Coconut | 14.66 | 15.58 | 0.92 | 81 Aromatic herbs | 8.26 | 7.17 | -1.09 |
| 10 Corn flour | 7.72 | 10.85 | 3.13 | 46 Other fruit | 19.25 | 18.45 | -0.80 | 82 Salt | 83.54 | 85.93 | 2.39 |
| 11 Precooked corn flour | 36.48 | 29.93 | -6.55 | 47 Green beans | 13.90 | 13.03 | -0.88 | 83 Sugar (refined, brown) | 72.61 | 74.57 | 1.96 |
| 12 Corn | 24.37 | 22.72 | -1.65 | 48 Carrots | 48.85 | 46.54 | -2.31 | 84 Unprocessed Sugar | 72.60 | 74.14 | 1.54 |
| 13 Wheat Flour | 30.21 | 28.64 | -1.57 | 49 Broad beans | 2.14 | 1.81 | -0.33 | 85 Vegetable oil | 77.29 | 79.93 | 2.64 |
| 14 Infant Feeding Cereals | 11.65 | 3.85 | -7.80 | 50 Tomatoes | 71.69 | 73.59 | 1.90 | 86 Vegetable fat | 21.62 | 17.84 | -3.78 |
| 15 Hueso de res | 43.80 | 42.59 | -1.21 | 51 Spring Onions | 57.30 | 57.09 | -0.21 | 87 Butter | 9.13 | 10.14 | 1.01 |
| 16 Menudencias de pollo | 31.17 | 27.59 | -3.59 | 52 Onions | 59.14 | 62.04 | 2.90 | 88 Margarine | 2.66 | 2.60 | -0.05 |
| 17 Chicken/hen | 36.83 | 39.44 | 2.61 | 53 Cob | 12.16 | 6.06 | -6.10 | 89 Lard | 2.44 | 1.68 | -0.76 |
| 18 Beef without bone | 48.79 | 51.71 | 2.93 | 54 Green peas | 9.78 | 9.70 | -0.08 | 90 Lemonade | 8.17 | 11.03 | 2.86 |
| 19 Beef with bone | 8.09 | 9.94 | 1.85 | 55 Lettuce | 9.89 | 11.73 | 1.84 | 91 Packaged drinks | 2.21 | 2.80 | 0.59 |
| 20 Mincemeat | 3.29 | 4.78 | 1.49 | 56 Kidney beans | 20.97 | 16.02 | -4.95 | 92 Powdered cool drinks | 20.19 | 27.44 | 7.25 |
| 21 Pork without bone | 9.87 | 10.49 | 0.61 | 57 Spinach | 6.42 | 4.99 | -1.43 | 93 Bottled water | 6.20 | 3.75 | -2.45 |
| 22 Pork with bone | 8.67 | 5.37 | -3.30 | 58 Beet | 3.29 | 3.42 | 0.13 | 94 Eggs | 76.21 | 83.18 | 6.97 |
| 23 Goat/Sheep | 1.49 | 0.63 | -0.86 | 59 Cabbage | 27.48 | 25.33 | -2.15 | 95 Avena (oats) | n/a | 25.76 | n/a |
| 24 Other bird meat | 0.59 | 1.80 | 1.21 | 60 Garlic | 54.72 | 56.63 | 1.90 | 96 Bienestarina | n/a | 30.52 | n/a |
| 25 Canned meat | 2.51 | 3.06 | 0.55 | 61 Aji | 32.18 | 26.09 | -6.09 | 97 Liver | n/a | 4.55 | n/a |
| 26 Cold meats | 8.27 | 9.89 | 1.62 | 62 Other green veg | 14.97 | 5.89 | -9.08 | | | | |
| 27 Tongue, feet, etc | 6.44 | 3.86 | -2.58 | 63 Chick peas | 4.24 | 3.60 | -0.65 | | | | |
| 28 Fish | 34.81 | 46.30 | 11.49 | 64 Dry peas | 22.25 | 21.43 | -0.82 | | | | |
| 29 Seafood | 0.30 | 0.40 | 0.10 | 65 Dry beans | 50.00 | 47.84 | -2.16 | | | | |
| 30 Tuna/Sardines | 24.45 | 29.07 | 4.62 | 66 Lentils | 48.37 | 52.63 | 4.26 | | | | |
| 31 Milk | 65.82 | 60.80 | -5.02 | 67 Other grains | 2.17 | 2.96 | 0.79 | | | | |
| 32 Powdered milk | 18.14 | 19.02 | 0.87 | 68 Plantains | 67.86 | 71.02 | 3.17 | | | | |
| 33 Curdled cheese | 42.91 | 35.69 | -7.22 | 69 Small plantain | 21.73 | 19.96 | -1.77 | | | | |
| 34 Other dairy products | 17.41 | 12.93 | -4.48 | 70 Potatoes | 73.61 | 70.28 | -3.33 | | | | |
| 35 Oranges | 31.48 | 25.51 | -5.97 | 71 Creole potatoes | 14.65 | 14.18 | -0.48 | | | | |
| 36 Lemons | 53.15 | 41.37 | -11.78 | 72 Arracacha | 8.59 | 7.58 | -1.02 | | | | |

Table 4.C: Foods and Proportion Consuming Them - Colombia

Note: Avena, bienestarina and liver were only included in the Nov 05-March 06 survey.

Table 5.M: Average Real Median Unitvalues - Mexico

| | Average | Real Med | dian Unit | Value ove | r Time | | % Change | % Change |
|----------------------|---------|----------|-----------|-----------|--------|-------|----------|--------------|
| Food | Oct-98 | May-99 | Nov-99 | Nov-00 | 2003 | 2007 | (Real) | (Nominal) |
| 1 Tomatoes | 17.15 | 8.80 | 9.31 | 10.08 | 11.37 | 12.83 | -25.2% | 27.3% |
| 2 Onions | 12.50 | 8.59 | 8.60 | 8.60 | 9.43 | 9.21 | -26.3% | 25.3% |
| 3 Potatoes | 12.66 | 10.17 | 9.53 | 8.57 | 10.15 | 9.31 | -26.5% | 25.0% |
| 4 Carrots | 9.93 | 7.95 | 7.96 | 8.24 | 8.70 | 8.40 | -15.4% | 43.9% |
| 5 Leafy Vegetables | 15.24 | 14.35 | 11.44 | 10.62 | 15.80 | 15.70 | 3.0% | 75.2% |
| 6 Oranges | 5.77 | 4.82 | 4.75 | 4.34 | 5.25 | 5.85 | 1.3% | 72.3% |
| 7 Bananas | 6.49 | 5.76 | 5.45 | 5.20 | 5.54 | 7.37 | 13.5% | 93.0% |
| 8 Apples | 15.92 | 15.66 | 12.56 | 14.05 | 12.09 | 12.88 | -19.1% | 37.6% |
| 9 Lemons | 8.64 | 8.35 | 7.62 | 8.08 | 7.60 | 8.28 | -4.1% | 63.1% |
| 10 Pricky pears | 10.58 | 7.55 | 9.48 | 10.50 | 10.55 | 10.24 | -3.2% | 64.7% |
| 11 Tortilla | 5.00 | 4.93 | 4.46 | 3.96 | 5.92 | 8.22 | 64.5% | 179.8% |
| 12 Maize Grain | 3.57 | 3.23 | 3.12 | 2.83 | 3.29 | 3.98 | 11.6% | 89.7% |
| 13 White Bread | 17.76 | 16.18 | 17.01 | 18.89 | 17.00 | 19.14 | 7.8% | 83.3% |
| 14 Sweet Bread | 19.65 | 17.57 | 18.41 | 17.77 | 17.30 | 21.79 | 10.9% | 88.6% |
| 15 Loaf of Bread | 16.27 | 14.33 | 11.83 | 18.99 | 20.62 | 19.59 | 20.4% | 104.8% |
| 16 Wheat Flour | 7.35 | 6.62 | 7.03 | 6.84 | 5.98 | 6.66 | -9.4% | 54.0% |
| 17 Pasta Soup | 18.32 | 17.59 | 16.56 | 15.52 | 16.55 | 16.08 | -12.2% | 49.3% |
| 18 Rice | 12.47 | 11.72 | 11.05 | 9.68 | 7.84 | 8.82 | -29.3% | 20.2% |
| 19 Salt Cakes | 21.77 | 19.75 | 16.34 | 15.52 | 19.00 | 24.35 | 11.8% | 90.2% |
| 20 Beans | 19.29 | 15.58 | 14.88 | 12.37 | 12.44 | 12.56 | -34.9% | 10.7% |
| 21 Breakfast Cereal | 22.48 | 17.77 | 16.81 | 18.17 | 34.41 | 24.84 | 10.5% | 88.0% |
| 22 Chicken | 36.09 | 33.87 | 30.68 | 31.16 | 28.47 | 29.75 | -17.6% | 40.2% |
| 23 Beef and Pork | 45.47 | 40.07 | 39.76 | 42.81 | 39.55 | 44.38 | -2.4% | 66.0% |
| 24 Lamb and Goat | 47.75 | 40.27 | 52.08 | 48.54 | 55.60 | 86.86 | 81.9% | 209.4% |
| 25 Fish | 30.96 | 33.04 | 34.51 | 31.30 | 34.74 | 33.36 | 7.7% | 83.3% |
| 26 Tinned Fish | 88.57 | 85.79 | 57.09 | 33.31 | 47.98 | 71.98 | -18.7% | 38.2% |
| 27 Eggs | 17.16 | 15.13 | 14.67 | 14.07 | 13.46 | 14.21 | -17.2% | 40.8% |
| 28 Milk | 8.39 | 8.95 | 8.87 | 8.60 | 9.00 | 9.78 | 16.6% | 98.4% |
| 29 Cheese | 54.53 | 58.98 | 47.94 | 45.07 | 49.82 | 57.18 | 4.9% | 78.3% |
| 30 Lard | 19.91 | 16.70 | 16.33 | 16.40 | 14.48 | 15.10 | -24.2% | 29.0% |
| 31 Sweets | 36.04 | 45.03 | 52.45 | 33.08 | 34.17 | 39.56 | 9.8% | 86.7% |
| 32 Carbonated Drinks | 11.24 | 8.37 | 8.28 | 8.20 | 7.90 | 7.05 | -37.3% | 6.7% |
| 33 Alcoholic Drinks | 15.66 | 13.16 | 13.23 | 16.64 | 16.10 | 18.66 | 19.1% | 102.5% |
| 34 Coffee | 43.36 | 36.07 | 35.56 | 34.25 | 54.34 | 44.76 | 3.2% | 75.5% |
| 35 Sugar | 10.18 | 9.19 | 8.80 | 8.07 | 8.23 | 9.46 | -7.1% | 58.0% |
| 36 Vegetable Oil | 17.50 | 15.79 | 15.12 | 13.75 | 12.26 | 14.13 | -19.3% | 37.3% |
| 37 Price Index | 0.59 | 0.65 | 0.68 | 0.74 | 0.84 | 1.00 | 0.0% | 70.1% |

Notes: Prices are an unweighted average of lowest-available-area median unit values in constant October 2007 prices. Between October 1998 and October 2007 the overall price level had increased by approximately 70%. The lowest-available-area is typically locality, although for products consumed less frequently, this may be municipality or state.

| Average Real Median Unit Value over Time | | | | | | | | | |
|--|---------|---------|----------|-----------|------------------------|---------|-----------|------------------|-----------|
| | July - | Nov 05- | % Change | % Change | | July - | Nov 05- 9 | % Change | % Change |
| Food Type | Oct-03 | Mar-06 | (Real) | (Nominal) | Food Type | Oct-03 | Mar-06 | (Real) | (Nominal) |
| Rice | 1704.01 | 1566.93 | -8.0% | 3.4% | Tomatoes | 1766.25 | 1848.46 | 4.7% | 17.48% |
| Bread | 191.88 | 145.51 | -24.2% | -15.0% | Spring Onions | 1953.20 | 1917.93 | -1.8% | 10.27% |
| Biscuits | 1616.87 | 1716.58 | 6.2% | 19.4% | Onions | 1910.69 | 1938.40 | 1.5% | 14.07% |
| Other bread products | 721.22 | 731.96 | 1.5% | 13.2% | Cob | 1706.09 | 1575.15 | -7.7% | 4.56% |
| Pasta/Vermicellli | 2999.85 | 2517.13 | -16.1% | -5.7% | Green peas | 2801.14 | 2848.10 | 1.7% | 14.14% |
| Barley Cereal | 2195.40 | 1858.12 | -15.4% | -5.2% | Lettuce | 2007.90 | 2139.80 | 6.6% | 19.27% |
| Malt Soup | 1747.88 | 1833.21 | 4.9% | 17.9% | Kidney beans | 1960.94 | 1835.28 | -6.4% | 5.03% |
| Corn Soup | 1581.95 | 1450.50 | -8.3% | 2.9% | Spinach | 2192.49 | 1887.15 | -13.9% | -2.89% |
| Wheat Soup | 1764.21 | 1832.31 | 3.9% | 16.7% | Beet | 2027.74 | 1864.35 | -8.1% | 3.11% |
| Corn flour | 1816.54 | 1823.75 | 0.4% | 12.8% | Cabbage | 1642.07 | 1537.83 | -6.3% | 4.96% |
| Precooked corn flour | 2111.34 | 1906.09 | -9.7% | 1.5% | Garlic | 210.15 | 213.41 | 1.6% | 14.23% |
| Corn | 1359.70 | 1111.85 | -18.2% | -8.2% | Aji | 2726.10 | 2380.96 | -12.7% | -2.31% |
| Wheat Flour | 1668.73 | 1583.65 | -5.1% | 6.7% | Oth green veg | 1795.30 | 1669.35 | -7.0% | 4.47% |
| Infant Feeding Cereal | 8847.87 | 2300.00 | -74.0% | -71.7% | Chick peas | 3381.12 | 2945.86 | -12.9% | -2.02% |
| Hueso de res | 3024.10 | 2825.00 | -6.6% | 5.0% | Dry peas | 2250.04 | 2018.53 | -10.3% | 0.76% |
| Menudencias de pollo | 2505.97 | 2310.42 | -7.8% | 3.7% | Drv beans | 3709.74 | 3622.44 | -2.4% | 9.69% |
| Chicken/hen | 5375.55 | 5163.54 | -3.9% | 7.9% | Lentils | 2536.92 | 2236.48 | -11.8% | -0.99% |
| Beef without bone | 7576.60 | 7482.66 | -1.2% | 11.0% | Other grains | 3012.75 | 2675.93 | -11.2% | -0.57% |
| Beef with bone | 5241.73 | 5038.52 | -3.9% | 8.1% | Plantains | 228.08 | 227.05 | -0.4% | 11.89% |
| Mincemeat | 6706.29 | 6395.65 | -4.6% | 7.3% | Small plantain | 935.64 | 1054.38 | 12.7% | 28.66% |
| Pork without bone | 6490.74 | 6267.28 | -3.4% | 8.5% | Potatoes | 971.10 | 1140.58 | 17.5% | 32.02% |
| Pork with bone | 5312.40 | 5062.34 | -4.7% | 7.0% | Creole potato | 1282.89 | 1398.56 | 9.0% | 22.87% |
| Goat/Sheep | 5872.50 | 5824.21 | -0.8% | 10.7% | Arracacha | 1474.85 | 1486.12 | 0.8% | 12.89% |
| Other bird meat | 5145.43 | 4562.14 | -11.3% | 1.4% | Yam | 1463.28 | 1017.65 | -30.5% | -22.11% |
| Canned meat | 7772.42 | 6954.14 | -10.5% | 0.5% | Yucca | 983.66 | 965.23 | -1.9% | 10.18% |
| Cold meats | 6182.19 | 6122.75 | -1.0% | 11.1% | Oth root yea | 1608.09 | 1416.28 | -11.9% | -2.18% |
| Tonque, feet, etc | 4576.88 | 4135.76 | -9.6% | 1.7% | Condiments | 252.20 | 265.72 | 5.4% | 17.52% |
| Fish | 5224.87 | 4918.85 | -5.9% | 5.8% | Tomato sauce, etc | 757.67 | 746.83 | -1.4% | 10.56% |
| Seafood | 4608.75 | 5080.56 | 10.2% | 23.2% | Juice concentrates | 185.19 | 199.96 | 8.0% | 21.28% |
| Tuna/Sardines | 1779.19 | 1688.28 | -5.1% | 6.6% | Coffee | 9596 71 | 10877.8 | 13.3% | 27.45% |
| Milk | 887.66 | 965.33 | 8.8% | 22.3% | Chocolate/Cocoa | 8736.30 | 7368.09 | -15.7% | -5.27% |
| Powdered milk | 9178.26 | 7894 82 | -14.0% | -3.3% | Aromatic herbs | 678.69 | 869.53 | 28.1% | 43.42% |
| Curdled cheese | 5734.70 | 6513.76 | 13.6% | 27.4% | Salt | 636.98 | 613.57 | -3.7% | 8.41% |
| Other dairy prod | 2277.32 | 2291.17 | 0.6% | 12.6% | Sugar (refined, brown) | 1719.99 | 1593.66 | -7.3% | 4.16% |
| Oranges | 108 48 | 112 25 | 3.5% | 16.2% | Unprocessed Sugar | 747 18 | 603 45 | -19.2% | -9 40% |
| Lemons | 71 10 | 76.92 | 8.2% | 21.3% | Vegetable oil | 3748 56 | 3212 38 | -14.3% | -3 67% |
| Tangarines | 1849.50 | 2139.12 | 15.7% | 32.6% | Vegetable fat | 4158.69 | 4122.43 | -0.9% | 11.41% |
| Banana | 113.06 | 106.68 | -5.6% | 6.07% | Butter | 6617 13 | 5921 97 | -10.5% | 0.52% |
| Melon | 2265.84 | 1715 48 | -24.3% | -14 30% | Margarine | 7024 94 | 5525 21 | -21.3% | -11 61% |
| Mango | 1508 97 | 2001.91 | 32.7% | 50 05% | Lard | 3818.37 | 3802 55 | -0.4% | 12 53% |
| Guava | 1442 53 | 1487.00 | 3.1% | 15 68% | Lemonade | 1702.88 | 1486.04 | -12 7% | -2 05% |
| Blackberry | 2567.88 | 2600 07 | 5.1% | 18 14% | Packaged drinks | 1906.26 | 2004 17 | 5 1% | 22.05% |
| Passion Fruit | 1945 90 | 1881 55 | -3.3% | 8 /0% | Powdered cool drinks | /07 22 | 161 90 | -6.5% | 5 00% |
| Pinoapplo | 2112.03 | 19/6 79 | -12.6% | -0.16% | Bottled water | 306.18 | 507.03 | -0.3 /0 50 7% | 67 27% |
| Coconut | 2112.03 | 1205 79 | -12.0% | -0.10% | Fage | 225 09 | 201 50 | -10 5% | 01.21% |
| Other fruit | 2412.99 | 221/ 01 | 0.20% | 12 560/ | Lyys Avena (oats) | 223.00 | 201.00 | -10.3 /0 n/a | n/a |
| Green beans | 28/5/1 | 2070 52 | 1 7% | 17 53% | Rienestarina | n/a | 1308 33 | n/a | n/a |
| Corrote | 1361 72 | 1306 17 | 2.5% | 15 520/ | Livor | n/a | 6757 35 | n/a | n/a |
| Broad beans | 2098 13 | 1804 4/ | -14 0% | -4 98% | Price Index (CPI) | 88 96 | 100 00 | iva | 11 0 |
| Dioua bound | 2000.10 | 1004.44 | 1-1-0 /0 | | | 00.00 | | | |

Notes: All the unitvalues are reported in February 2006 prices. Prices were deflated using a general CPI from the Bank of Colombia. All median unitvalues are in Colombian pesos.

| | Standard | Deviation | of Real Log | g Median Un | it Values by | Time |
|-------------------|----------|-----------|-------------|-------------|--------------|-------|
| Food Type | Oct-98 | May-99 | Nov-99 | Nov-00 | 2003 | 2007 |
| Tomatoes | 0.036 | 0.098 | 0.127 | 0.154 | 0.084 | 0.212 |
| Onions | 0.113 | 0.105 | 0.063 | 0.128 | 0.093 | 0.102 |
| Potatoes | 0.144 | 0.140 | 0.131 | 0.207 | 0.172 | 0.140 |
| Carrots | 0.149 | 0.217 | 0.184 | 0.120 | 0.212 | 0.181 |
| Leafy Vegetables | 0.119 | 0.131 | 0.187 | 0.124 | 0.116 | 0.121 |
| Oranges | 0.191 | 0.126 | 0.122 | 0.220 | 0.165 | 0.209 |
| Bananas | 0.176 | 0.154 | 0.130 | 0.179 | 0.142 | 0.111 |
| Apples | 0.095 | 0.149 | 0.112 | 0.084 | 0.046 | 0.109 |
| Lemons | 0.187 | 0.119 | 0.160 | 0.099 | 0.143 | 0.174 |
| Pricky pears | 0.184 | 0.128 | 0.121 | 0.205 | 0.210 | 0.081 |
| Tortilla | 0.063 | 0.203 | 0.239 | 0.266 | 0.202 | 0.075 |
| Maize Grain | 0.097 | 0.088 | 0.084 | 0.070 | 0.168 | 0.091 |
| White Bread | 0.301 | 0.299 | 0.320 | 0.301 | 0.000 | 0.152 |
| Sweet Bread | 0.328 | 0.339 | 0.449 | 0.254 | 0.121 | 0.252 |
| Loaf of Bread | 0.683 | 0.531 | 0.728 | 0.213 | 0.165 | 0.119 |
| Wheat Flour | 0.195 | 0.191 | 0.254 | 0.333 | 0.070 | 0.091 |
| Pasta Soup | 0.137 | 0.160 | 0.118 | 0.139 | 0.090 | 0.076 |
| Rice | 0.092 | 0.060 | 0.105 | 0.074 | 0.075 | 0.089 |
| Salt Cakes | 0.301 | 0.269 | 0.124 | 0.186 | 0.240 | 0.203 |
| Beans | 0.079 | 0.040 | 0.045 | 0.118 | 0.076 | 0.076 |
| Breakfast Cereal | 0.195 | 0.097 | 0.130 | 0.437 | 0.229 | 0.089 |
| Chicken | 0.047 | 0.064 | 0.065 | 0.056 | 0.074 | 0.065 |
| Beef and Pork | 0.112 | 0.136 | 0.163 | 0.132 | 0.152 | 0.169 |
| Lamb and Goat | 0.297 | 0.252 | 0.587 | 0.180 | 0.312 | 0.300 |
| Fish | 0.149 | 0.210 | 0.331 | 0.264 | 0.192 | 0.161 |
| Tinned Fish | 0.075 | 0.093 | 0.442 | 0.165 | 0.245 | 0.098 |
| Eggs | 0.033 | 0.054 | 0.000 | 0.058 | 0.061 | 0.079 |
| Milk | 0.110 | 0.102 | 0.139 | 0.134 | 0.143 | 0.094 |
| Cheese | 0.140 | 0.131 | 0.118 | 0.146 | 0.103 | 0.125 |
| Lard | 0.102 | 0.121 | 0.105 | 0.117 | 0.181 | 0.123 |
| Sweets | 0.171 | 0.448 | 0.579 | 0.642 | 0.170 | 0.140 |
| Carbonated Drinks | 0.252 | 0.085 | 0.080 | 0.045 | 0.087 | 0.111 |
| Alcoholic Drinks | 0.242 | 0.263 | 0.260 | 0.193 | 0.160 | 0.180 |
| Coffee | 0.173 | 0.201 | 0.166 | 0.347 | 0.632 | 0.219 |
| Sugar | 0.013 | 0.000 | 0.000 | 0.013 | 0.027 | 0.058 |
| Vegetable Oil | 0.053 | 0.054 | 0.054 | 0.059 | 0.055 | 0.044 |

Table 6.M: Standard Deviation of Log Median Unit Values - Mexico

Notes: Prices are an unweighted average of lowest-available-area median unit values in constant October 2007 prices. The lowest-available-area is typically locality, although for products consumed less frequently, this may be municipality or state.

| | | | Standard Deviation of Re | al Median Uni | t Values by | Time | | |
|------------------------|---------|---------|--------------------------|---------------|-------------|------------------------|---------|---------|
| | July - | Nov 05- | | July - | Nov 05- | | July - | Nov 05- |
| Food Type | Oct-03 | Mar-06 | Food Type | Oct-03 | Mar-06 | Food Type | Oct-03 | Mar-06 |
| Rice | 150.68 | 144.50 | Tangarines | 978.80 | 960.54 | Yam | 458.05 | 441.59 |
| Bread | 221.14 | 212.04 | Banana | 29.71 | 28.52 | Yucca | 262.55 | 251.73 |
| Biscuits | 298.81 | 286.64 | Melon | 719.53 | 751.76 | Other root vegetables | 1240.97 | 1210.06 |
| Other bread products | 1444.88 | 1387.70 | Mango | 671.24 | 653.52 | Condiments | 236.01 | 225.83 |
| Pasta/Vermicellli | 521.35 | 500.11 | Guava | 479.73 | 460.51 | Tomato sauce, etc | 458.13 | 440.04 |
| Barley Cereal | 853.20 | 819.94 | Blackberry | 580.61 | 557.72 | Juice concentrates | 28.02 | 26.84 |
| Malt Soup | 338.55 | 326.65 | Passion Fruit | 616.14 | 592.03 | Coffee | 1171.58 | 1123.72 |
| Corn Soup | 349.57 | 335.13 | Pineapple | 804.51 | 798.04 | Chocolate/Cocoa | 2730.08 | 2618.68 |
| Wheat Soup | 375.07 | 362.01 | Coconut | 0.00 | 0.00 | Aromatic herbs | 306.19 | 295.62 |
| Corn flour | 411.54 | 395.37 | Other fruit | 966.21 | 928.57 | Salt | 102.33 | 98.32 |
| Precooked corn flour | 296.24 | 284.35 | Green beans | 964.01 | 925.48 | Sugar (refined, brown) | 135.20 | 129.71 |
| Corn | 585.82 | 561.76 | Carrots | 320.09 | 295.83 | Unprocessed Sugar | 418.78 | 401.43 |
| Wheat Flour | 222.51 | 213.82 | Broad beans | 703.87 | 666.52 | Vegetable oil | 307.85 | 295.34 |
| Infant Feeding Cereals | 9993.29 | 9698.22 | Tomatoes | 542.34 | 519.73 | Vegetable fat | 838.94 | 805.32 |
| Hueso de res | 855.54 | 820.80 | Spring Onions | 561.91 | 538.79 | Butter | 1646.33 | 1577.83 |
| Menudencias de pollo | 678.77 | 652.09 | Onions | 477.67 | 458.29 | Margarine | 3009.86 | 2895.14 |
| Chicken/hen | 756.22 | 724.78 | Cob | 977.05 | 948.26 | Lard | 1312.53 | 1256.74 |
| Beef without bone | 1115.24 | 1069.34 | Green peas | 817.34 | 784.53 | Lemonade | 458.09 | 439.36 |
| Beef with bone | 1239.56 | 1190.06 | Lettuce | 904.91 | 869.34 | Packaged drinks | 1224.42 | 1179.62 |
| Mincemeat | 1226.97 | 1182.13 | Kidney beans | 554.68 | 531.80 | Powdered cool drinks | 94.36 | 90.49 |
| Pork without bone | 1333.34 | 1279.79 | Spinach | 867.92 | 840.00 | Bottled water | 361.90 | 349.75 |
| Pork with bone | 1137.31 | 1092.26 | Beet | 957.49 | 926.96 | Eggs | 20.90 | 20.07 |
| Goat/Sheep | 1191.33 | 1148.54 | Cabbage | 693.14 | 664.81 | Avena (oats) | n/a | 599.76 |
| Other bird meat | 2302.00 | 2275.91 | Garlic | 76.25 | 73.20 | Bienestarina | n/a | 777.83 |
| Canned meat | 3844.13 | 3710.30 | Aji | 2258.44 | 2173.76 | Liver | n/a | 1197.02 |
| Cold meats | 3294.01 | 3165.95 | Other green vegetables | 914.25 | 880.21 | | | |
| Tongue, feet, etc | 1523.71 | 1463.38 | Chick peas | 711.10 | 683.54 | | | |
| Fish | 1421.18 | 1364.54 | Dry peas | 537.42 | 515.36 | | | |
| Seafood | 2375.26 | 2619.39 | Dry beans | 700.70 | 672.46 | | | |
| Tuna/Sardines | 381.10 | 365.89 | Lentils | 327.69 | 312.98 | | | |
| Milk | 300.28 | 288.15 | Other grains | 1138.99 | 1098.09 | | | |
| Powdered milk | 1760.84 | 1689.67 | Plantains | 91.35 | 87.67 | | | |
| Curdled cheese | 1317.96 | 1270.10 | Small plantain | 573.33 | 548.20 | | | |
| Other dairy products | 1074.54 | 1032.40 | Potatoes | 280.37 | 269.06 | | | |
| Oranges | 33.39 | 32.04 | Creole potatoes | 382.51 | 362.26 | | | |
| Lemons | 34.79 | 33.39 | Arracacha | 508.33 | 489.63 | | | |

Table 6.C: Standard Deviation of Median Unit Values - Colombia

| | Average | Real Sho | p Price ov | ver Time | | | % Change | % Change |
|-------------------|---------|----------|------------|----------|--------|--------|----------|-----------|
| Food Type | Oct-98 | May-99 | Nov-99 | Nov-00 | 2003 | 2007 | (Real) | (Nominal) |
| Tomatoes | 17.92 | 9.04 | 9.38 | 10.72 | 11.66 | 12.86 | -28.2% | 22.1% |
| Onions | 11.53 | 7.66 | 8.62 | 8.49 | 9.60 | 8.40 | -27.2% | 23.9% |
| Potatoes | 11.95 | 9.94 | 10.70 | 8.97 | 10.85 | 9.27 | -22.4% | 32.0% |
| Carrots | 7.94 | 6.15 | 7.23 | 5.98 | 6.88 | 7.25 | -8.7% | 55.3% |
| Leafy Vegetables | 14.82 | 15.93 | 18.52 | 16.18 | 16.98 | 17.09 | 15.3% | 96.2% |
| Oranges | 5.70 | 4.83 | 5.30 | 4.41 | 5.22 | 7.10 | 24.6% | 111.9% |
| Bananas | 6.07 | 6.58 | 5.80 | 5.37 | 5.59 | 7.24 | 19.3% | 102.9% |
| Apples | 15.90 | 18.35 | 14.05 | 15.25 | 14.62 | 30.96 | 94.7% | 231.2% |
| Lemons | 7.65 | 7.58 | 6.78 | 6.95 | 6.92 | 7.86 | 2.8% | 74.8% |
| Pricky pears | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| Tortilla | 5.87 | 6.29 | 5.93 | 6.45 | 7.21 | 7.76 | 32.2% | 124.8% |
| Maize Grain | n/a | 3.67 | 5.37 | 3.03 | 3.45 | 5.15 | n/a | n/a |
| White Bread | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| Sweet Bread | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| Loaf of Bread | 15.10 | 14.47 | 18.43 | 13.63 | 23.21 | 22.90 | 51.6% | 157.9% |
| Wheat Flour | 6.75 | 6.45 | 6.71 | 6.10 | 5.73 | 6.91 | 2.3% | 73.9% |
| Pasta Soup | 3.79 | 3.57 | 3.91 | 3.83 | 3.44 | 3.59 | -5.4% | 60.9% |
| Rice | 11.38 | 10.87 | 10.47 | 9.30 | 7.76 | 9.12 | -19.9% | 36.3% |
| Salt Cakes | 4.52 | 4.44 | 5.05 | 4.37 | 4.31 | 4.75 | 5.0% | 78.5% |
| Beans | 18.96 | 15.87 | 14.31 | 12.91 | 12.83 | 12.20 | -35.7% | 9.4% |
| Breakfast Cereal | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| Chicken | 37.71 | 32.62 | 28.78 | 30.55 | 29.85 | 30.96 | -17.9% | 39.6% |
| Beef and Pork | 45.49 | 40.52 | 38.87 | 38.15 | 38.72 | 36.92 | -18.8% | 38.0% |
| Lamb and Goat | 66.61 | 68.78 | 18.19 | 31.67 | 55.93 | 18.00 | -73.0% | -54.0% |
| Fish | 36.64 | 37.44 | 25.45 | 32.55 | 43.46 | 27.03 | -26.2% | 25.4% |
| Tinned Fish | 91.75 | 88.54 | 91.26 | 77.61 | 68.81 | 73.50 | -19.9% | 36.3% |
| Eggs | 17.61 | 14.58 | 14.03 | 15.34 | 13.81 | 15.14 | -14.0% | 46.3% |
| Milk | 9.88 | 10.07 | 10.47 | 9.55 | 9.72 | 10.60 | 7.3% | 82.6% |
| Cheese | 52.41 | 38.77 | 32.54 | 41.26 | 40.77 | 43.00 | -18.0% | 39.5% |
| Lard | 18.61 | 17.08 | 15.89 | 15.99 | 13.76 | 14.65 | -21.3% | 33.9% |
| Sweets | 30.71 | 33.48 | 43.64 | 34.57 | 36.95 | 38.73 | 26.1% | 114.5% |
| Carbonated Drinks | 9.51 | 10.36 | 10.73 | 10.36 | 11.96 | 11.26 | 18.5% | 101.5% |
| Alcoholic Drinks | 17.11 | 17.89 | 15.55 | 16.45 | n/a | n/a | n/a | n/a |
| Coffee | 88.25 | 88.82 | 87.98 | 79.37 | 148.45 | 124.20 | 40.7% | 139.4% |
| Sugar | 9.88 | 9.13 | 9.45 | 8.12 | 8.66 | 9.21 | -6.7% | 58.6% |
| Vegetable Oil | 17.09 | 15.71 | 14.79 | 13.10 | 12.21 | 13.92 | -18.5% | 38.6% |
| Price Index | 0.59 | 0.65 | 0.68 | 0.74 | 0.84 | 1.00 | 0.0% | 70.1% |

Table 7.M: Average Real Shop Prices - Mexico

Notes: Prices are an unweighted average of reported shop prices in the main shop contacted in each locality, in constant October 2007 prices. Shop prices are not available for the full range of goods. Between October 1998 and October 2007 the overall price level had increased by approximately 70%.

Table 7.C: Average Real Shop Prices - Colombia

| Average Real Shop Price over Time | | | | | | Average R | eal Shop | Price over T | ime |
|-----------------------------------|------------------|-------------------|--------------------|-----------------------|------------------------|------------------|-------------------|--------------------|----------------------|
| Food Type | July - Oct-03 | Nov 05- Mar-06 | % Change (Real) | % Change (Nominal) | Food Type | July - Oct-03 | Nov 05- Mar-06 | % Change (Real) | %Change (Nominal) |
| Rice | 1679.64 | 1572.55 | -6.38 | 5.24 | Tomatoes | 1570.85 | 1856.13 | 18.16 | 32.82 |
| Bread | 126.17 | 153.11 | 21.35 | 36.41 | Spring Onions | 1823.13 | 2044.74 | 12.16 | 26.07 |
| Biscuits | 1659.86 | 1801.76 | 8.55 | 22.02 | Onions | 1837.46 | 1771.44 | -3.59 | 9.74 |
| Other bread products | 1092.86 | n/a | n/a | n/a | Cob | 696.77 | 2163.38 | 210.49 | 249.01 |
| Pasta/Vermicellli | 5122.50 | 2625.51 | -48.75 | -42.39 | Green peas | 3239.50 | 3197.48 | -1.30 | 10.95 |
| Barley Cereal | 13154.85 | 2133.95 | -83.78 | -81.77 | Lettuce | 1682.88 | 2051.91 | 21.93 | 37.06 |
| Malt Soup | 1743.21 | 1766.77 | 1.35 | 13.93 | Kidney beans | 1930.94 | 1998.80 | 3.51 | 12.61 |
| Corn Soup | 1513.39 | 1490.87 | -1.49 | 10.74 | Spinach | 1795.33 | 2212.42 | 23.23 | 38.52 |
| Wheat Soup | 1832.21 | 1664.00 | -9.18 | 2.09 | Beet | 1256.41 | 1807.97 | 43.90 | 75.40 |
| Corn flour | 1853.58 | 1718.07 | -7.31 | 4.19 | Cabbage | 1068.49 | 1288.87 | 20.63 | 35.59 |
| Precooked corn flour | 2168.45 | 1936.86 | -10.68 | 0.40 | Garlic | 249.59 | 227.64 | -8.79 | 2.52 |
| Corn | 1280.00 | 1246.43 | -2.62 | 9.46 | Aji | 2924.27 | 7262.10 | 148.34 | 179.15 |
| Wheat Flour | 1670.39 | 1544.81 | -7.52 | 3.96 | Oth green veg | 2058.14 | 1763.14 | -14.33 | -3.70 |
| Infant Feeding Cereals | 170496 | 16964 | -90.05 | -88.82 | Chick peas | 3341.35 | 3308.14 | -0.99 | 10.29 |
| Hueso de res | 3074.95 | 3026.75 | -1.57 | 10.65 | Dry peas | 2084.18 | 1817.49 | -12.80 | -1.98 |
| Menudencias de pollo | 2534.32 | 2210.34 | -12.78 | -0.98 | Dry beans | 3691.92 | 3990.87 | 8.10 | 21.51 |
| Chicken/hen | 5387.18 | 5453.86 | 1.24 | 13.80 | Lentils | 2630.16 | 2010.24 | -23.57 | -14.09 |
| Beef without bone | 7789.64 | 7869.75 | 1.03 | 13.14 | Other grains | 3110.40 | 2750.65 | -11.57 | -0.59 |
| Beef with bone | 5287.26 | 5617.25 | 6.24 | 19.42 | Plantains | 258.10 | 247.22 | -4.22 | 7.67 |
| Mincemeat | 6910.76 | 6629.64 | -4.07 | 7.84 | Small plantain | 742.84 | 1538.67 | 107.13 | 132.84 |
| Pork without bone | 7205.89 | 7444.08 | 3.31 | 16.12 | Potatoes | 903.35 | 1186.66 | 31.36 | 47.66 |
| Pork with bone | 5896.23 | 6092.86 | 3.33 | 16.16 | Creole potatoes | 1384.62 | 1601.95 | 15.70 | 30.05 |
| Goat/Sheep | 6526.54 | 6308.39 | -3.34 | 5.96 | Arracacha | 1430.81 | 1522.85 | 6.43 | 19.64 |
| Other bird meat | 8157.35 | 7241.29 | -11.23 | -0.21 | Yam | 1432.59 | 1080.18 | -24.60 | -15.24 |
| Canned meat | 5580.52 | 10633 | 90.54 | 114.18 | Yucca | 1037.66 | 967.49 | -6.76 | 4.81 |
| Cold meats | 6768.25 | 6188.63 | -8.56 | 2.78 | Oth root veg | 1524.37 | 1319.23 | -13.46 | 7.83 |
| Tongue, feet, etc | 4839.78 | 4768.69 | -1.47 | 10.76 | Condiments | 195.13 | 439.27 | 125.12 | 153.05 |
| Fish | 6476.43 | 5776.54 | -10.81 | 8.75 | Tomato sauce, etc | 1028.88 | n/a | n/a | n/a |
| Seafood | 15121.10 | 12186.7 | -19.41 | 7.31 | Juice concentrates | 175.92 | 199.98 | 13.67 | 27.78 |
| Tuna/Sardines | 1897.85 | 1841.67 | -2.96 | 9.08 | Coffee | 9336.91 | 12523.8 | 34.13 | 50.78 |
| Milk | 1090.44 | 1240.07 | 13.72 | 27.83 | Chocolate/Cocoa | 9537.37 | 7825.37 | -17.95 | -7.77 |
| Powdered milk | 44493.45 | 9245.85 | -79.22 | -76.64 | Aromatic herbs | 1003.03 | n/a | n/a | n/a |
| Curdled cheese | 6246.85 | 6677.97 | 6.90 | 19.47 | Salt | 566.74 | 590.08 | 4.12 | 17.04 |
| Other dairy products | 2775.62 | 5890.33 | 112.22 | 138.55 | Sugar (refined, brown) | 1644.69 | 1640.19 | -0.27 | 12.74 |
| Oranges | 111.95 | 150.98 | 34.86 | 51.59 | Unprocessed Sugar | 608.24 | 513.59 | -15.56 | -2.73 |
| Lemons | 66.64 | 117.82 | 76.80 | 98.73 | Vegetable oil | 3671.72 | 3047.12 | -17.01 | -6.71 |
| Tangarines | 635.06 | 1826.57 | 187.62 | 206.29 | Vegetable fat | 4355.50 | 3872.33 | -11.09 | -0.06 |
| Banana | 128.24 | 125.11 | -2.44 | 9.66 | Butter | 6842.19 | 6267.17 | -8.40 | 5.79 |
| Melon | 1661.21 | 1882.34 | 13.31 | 27.37 | Margarine | 7038.25 | 6830.83 | -2.95 | 9.10 |
| Mango | 1265.79 | 2107.23 | 66.47 | 87.13 | Lard | 4188.65 | 3714.53 | -11.32 | -0.32 |
| Guava | 1444.00 | 1613.22 | 11.72 | 25.58 | Lemonade | 1562.59 | 1764.62 | 12.93 | 26.94 |
| Blackberry | 2731.72 | 2838.19 | 3.90 | 15.91 | Packaged drinks | 1130.25 | 3265.24 | 188.90 | 224.74 |
| Passion Fruit | 1754.91 | 2068.86 | 17.89 | 32.52 | Powdered cool drinks | 554.55 | 439.36 | -20.77 | -9.54 |
| Pineapple | 1671.86 | 1648.28 | -1.41 | 10.82 | Bottled water | 5229.63 | 1921.83 | -63.25 | -58.69 |
| Coconut | 1197.71 | 5802.23 | 384.44 | 444.55 | Eggs | 214.12 | 200.33 | -6.44 | 3.83 |
| Other fruit | 2291.46 | 2764.72 | 20.65 | 35.62 | Avena (oats) | n/a | 2978.18 | n/a | n/a |
| Green beans | 2646.95 | 2996.28 | 13.20 | 27.24 | Bienestarina | n/a | 1240.83 | n/a | n/a |
| Carrots | 1144.60 | 1216.99 | 6.32 | 19.52 | Liver | n/a | 6860.34 | n/a | n/a |
| Broad beans | 1673.60 | 1857.61 | 10.99 | 24.77 | Price Index | 88.96 | 100 | n/a | 11.04 |

| Ν | Mean Real Pric | e | | Mean Real Price | e |
|----------------|----------------|------------|-----------|-----------------|------------|
| | | | | | |
| Food Type | Median UV | Shop Price | Food Type | Median UV | Shop Price |
| Tomatoes | | | Potatoes | | |
| OCT-98 | 17.15 | 17.92 | OCT-98 | 12.66 | 11.95 |
| MAY-99 | 8.80 | 9.04 | MAY-99 | 10.17 | 9.94 |
| NOV-99 | 9.31 | 9.38 | NOV-99 | 9.53 | 10.70 |
| NOV-00 | 10.08 | 10.72 | NOV-00 | 8.57 | 8.97 |
| 2003 | 11.37 | 11.66 | 2003 | 10.15 | 10.85 |
| 2007 | 12.83 | 12.86 | 2007 | 9.31 | 9.27 |
| All | 11.59 | 11.93 | All | 10.06 | 10.28 |
| | | | | | |
| Food Type | Median UV | Shop Price | Food Type | Median UV | Shop Price |
| Maize tortilla | | | Rice | | |
| OCT-98 | 5.00 | 5.87 | OCT-98 | 12.47 | 11.38 |
| MAY-99 | 4.93 | 6.29 | MAY-99 | 11.72 | 10.87 |
| NOV-99 | 4.46 | 5.93 | NOV-99 | 11.05 | 10.47 |
| NOV-00 | 3.96 | 6.45 | NOV-00 | 9.68 | 9.30 |
| 2003 | 5.92 | 7.21 | 2003 | 7.84 | 7.76 |
| 2007 | 8.22 | 7.76 | 2007 | 8.82 | 9.12 |
| All | 5.41 | 6.58 | All | 10.26 | 9.82 |
| | | | | | |
| Food Type | Median UV | Shop Price | Food Type | Median UV | Shop Price |
| Chicken | | | Beans | | |
| OCT-98 | 36.09 | 37.71 | OCT-98 | 19.29 | 18.96 |
| MAY-99 | 33.87 | 32.62 | MAY-99 | 15.58 | 15.87 |
| NOV-99 | 30.68 | 28.78 | NOV-99 | 14.88 | 14.31 |
| NOV-00 | 31.16 | 30.55 | NOV-00 | 12.37 | 12.91 |
| 2003 | 28.47 | 29.85 | 2003 | 12.44 | 12.83 |
| 2007 | 29.75 | 30.96 | 2007 | 12.56 | 12.20 |
| All | 31.67 | 31.74 | All | 14.52 | 14.51 |

Notes: Unit Values are an unweighted average of lowest-available-area median unit values in constant October 2007 prices where the lowest-available area is typically a locality, but occasionally municipality or state for less frequently consumed goods. Shop Prices are an unweighted average of reported shop prices in the main shop contacted in each locality, in constant October 2007 prices.

| | Mean Real Price | | Mean Real Price | | | | |
|-------------|-----------------|------------|-----------------|-----------|------------|--|--|
| Food Type | Median UV | Shop Price | Food Type | Median UV | Shop Price | | |
| Rice | | | Potatoes | | | | |
| OCT-03 | 1704.01 | 1679.64 | OCT-03 | 971.01 | 903.35 | | |
| MAR-06 | 1566.93 | 1572.55 | MAR-06 | 1140.58 | 1186.66 | | |
| Food Type | Median UV | Shop Price | Food Type | Median UV | Shop Price | | |
| Corn | | | Carrots | | | | |
| OCT-03 | 1359.70 | 1280.00 | OCT-03 | 1361.72 | 1144.60 | | |
| MAR-06 | 1111.85 | 1246.43 | MAR-06 | 1396.17 | 1216.99 | | |
| Food Type | Median UV | Shop Price | Food Type | Median UV | Shop Price | | |
| Green Beans | | | Eaas | | 01100 | | |
| OCT-03 | 2845.41 | 2646.95 | OCT-03 | 225.08 | 214.12 | | |
| MAR-06 | 2979.52 | 2996.28 | MAR-06 | 201.50 | 200.33 | | |

Table 8.C: Key Commodities Real Prices - Colombia

Notes: Unit Values are an unweighted average of lowest-available-area median unit values in constant October 2007 prices where the lowest-available area is typically a locality, but occasionally municipality or state for less frequently consumed goods. Shop Prices are an unweighted average of reported shop prices in the main shop contacted in each locality, in constant October 2007 prices.

Table 9.M: Standard Deviation of Log Shop Prices - Mexico

| Food Type | Oct-98 | May-99 | Nov-99 | Nov-00 | 2003 | 2007 |
|-------------------|--------|--------|--------|--------|-------|-------|
| Tomatoes | 0.361 | 0.290 | 0.380 | 0.404 | 0.273 | 0.361 |
| Onions | 0.367 | 0.413 | 0.425 | 0.345 | 0.370 | 0.328 |
| Potatoes | 0.402 | 0.298 | 0.415 | 0.353 | 0.361 | 0.342 |
| Carrots | 0.386 | 0.460 | 0.378 | 0.370 | 0.303 | 0.344 |
| Leafy Vegetables | 0.370 | 0.402 | 0.573 | 0.416 | 0.310 | 0.306 |
| Oranges | 0.477 | 0.492 | 0.411 | 0.435 | 0.407 | 0.515 |
| Bananas | 0.329 | 0.376 | 0.387 | 0.312 | 0.320 | 0.247 |
| Apples | 0.310 | 0.355 | 0.366 | 0.468 | 0.333 | 0.303 |
| Lemons | 0.483 | 0.523 | 0.425 | 0.551 | 0.393 | 0.378 |
| Pricky pears | n/a | n/a | n/a | n/a | n/a | n/a |
| Tortilla | 0.227 | 0.152 | 0.419 | 0.170 | 0.352 | 0.373 |
| Maize Grain | n/a | 0.349 | 0.660 | 0.296 | 0.365 | 0.497 |
| White Bread | n/a | n/a | n/a | n/a | n/a | n/a |
| Sweet Bread | n/a | n/a | n/a | n/a | n/a | n/a |
| Loaf of Bred | 0.464 | 0.502 | 0.536 | 0.535 | 0.273 | 0.210 |
| Wheat Flour | 0.290 | 0.292 | 0.404 | 0.400 | 0.256 | 0.292 |
| Pasta Soup | 0.284 | 0.246 | 0.378 | 0.319 | 0.292 | 0.248 |
| Rice | 0.182 | 0.282 | 0.367 | 0.293 | 0.273 | 0.279 |
| Salt Cakes | 0.271 | 0.282 | 0.427 | 0.273 | 0.274 | 0.283 |
| Beans | 0.227 | 0.199 | 0.307 | 0.301 | 0.321 | 0.254 |
| Breakfast Cereal | n/a | n/a | n/a | n/a | n/a | n/a |
| Chicken | 0.230 | 0.498 | 0.619 | 0.530 | 0.405 | 0.303 |
| Beef and Pork | 0.185 | 0.196 | 0.539 | 0.315 | 0.291 | 0.617 |
| Lamb and Goat | 0.205 | 0.423 | 1.183 | 1.131 | 0.672 | 0.937 |
| Fish | 0.350 | 0.836 | 0.819 | 0.974 | 0.282 | 0.997 |
| Tinned Fish | 0.139 | 0.228 | 0.303 | 0.235 | 0.252 | 0.199 |
| Eggs | 0.272 | 0.305 | 0.777 | 0.667 | 0.157 | 0.332 |
| Milk | 0.276 | 0.312 | 0.378 | 0.339 | 0.186 | 0.146 |
| Cheese | 0.578 | 0.517 | 1.073 | 0.720 | 0.496 | 0.684 |
| Lard | 0.203 | 0.288 | 0.379 | 0.209 | 0.225 | 0.231 |
| Sweets | 0.230 | 0.327 | 0.557 | 0.304 | 0.241 | 0.222 |
| Carbonated Drinks | 0.218 | 0.294 | 0.344 | 0.292 | 0.175 | 0.171 |
| Alcoholic Drinks | 0.471 | 0.482 | 0.499 | 0.578 | n/a | n/a |
| Coffee | 0.519 | 0.384 | 0.398 | 0.467 | 0.761 | 0.698 |
| Sugar | 0.131 | 0.177 | 0.218 | 0.125 | 0.195 | 0.190 |
| Vegetable Oil | 0.136 | 0.209 | 0.245 | 0.159 | 0.265 | 0.150 |

Standard Deviation of Real Log Shop Price by Time

Notes: Prices are an unweighted average of reported shop prices in the main shop contacted in each locality, in constant October 2007 prices. Shop prices are not available for the full range of goods.

Table 9.C; Standard Deviation of Log Shop Prices - Colombia

| Standard Deviation of Real Log Shop Price by Time | | | | | | | | |
|---|--------|---------|-----------------|--------|---------|------------------------|--------|---------|
| | July - | Nov 05- | | July - | Nov 05- | | July - | Nov 05- |
| Food Type | Oct-03 | Mar-06 | Food Type | Oct-03 | Mar-06 | Food Type | Oct-03 | Mar-06 |
| Rice | 0.102 | 0.114 | Tangarines | 1.718 | 0.546 | Yam | 0.291 | 0.359 |
| Bread | 0.296 | 0.425 | Banana | 0.416 | 0.289 | Yucca | 0.355 | 0.407 |
| Biscuits | 0.140 | 0.627 | Melon | 0.464 | 0.636 | Other root veg | 0.519 | 0.479 |
| Other bread products | 0.941 | n/a | Mango | 1.506 | 0.669 | Condiments | 1.180 | 0.932 |
| Pasta/VermiceIlli | 0.792 | 0.431 | Guava | 0.653 | 0.581 | Tomato sauce, etc | 0.788 | n/a |
| Barley Cereal | 0.810 | 0.280 | Blackberry | 0.336 | 0.293 | Juice concentrates | 0.133 | 0.134 |
| Malt Soup | 0.207 | 0.222 | Passion Fruit | 0.728 | 0.383 | Coffee | 0.147 | 0.294 |
| Corn Soup | 0.293 | 0.293 | Pineapple | 0.333 | 0.452 | Chocolate/Cocoa | 0.758 | 0.348 |
| Wheat Soup | 0.196 | 0.202 | Coconut | 0.459 | 0.847 | Aromatic herbs | 1.116 | n/a |
| Corn flour | 0.249 | 0.272 | Other fruit | 0.686 | 0.519 | Salt | 0.154 | 0.201 |
| Precooked corn flour | 0.150 | 0.254 | Green beans | 0.386 | 0.429 | Sugar (refined, brown) | 0.107 | 0.143 |
| Corn | 0.419 | 0.386 | Carrots | 0.271 | 0.300 | Unprocessed Sugar | 0.403 | 0.468 |
| Wheat Flour | 0.134 | 0.200 | Broad beans | 0.492 | 0.376 | Vegetable oil | 0.265 | 0.156 |
| Infant Feeding Cereals | 2.023 | 0.607 | Tomatoes | 0.377 | 0.325 | Vegetable fat | 0.278 | 0.314 |
| Hueso de res | 0.389 | 0.448 | Spring Onions | 0.452 | 0.439 | Butter | 0.332 | 0.413 |
| Menudencias de pollo | 0.418 | 0.397 | Onions | 0.369 | 0.411 | Margarine | 1.147 | 0.322 |
| Chicken/hen | 0.138 | 0.210 | Cob | 1.381 | 0.564 | Lard | 0.342 | 0.408 |
| Beef without bone | 0.149 | 0.138 | Green peas | 0.415 | 0.395 | Lemonade | 0.362 | 0.249 |
| Beef with bone | 0.245 | 0.246 | Lettuce | 0.573 | 0.419 | Packaged drinks | 1.017 | 0.722 |
| Mincemeat | 0.183 | 0.149 | Kidney beans | 0.313 | 0.343 | Powdered cool drinks | 0.358 | 0.244 |
| Pork without bone | 0.190 | 0.263 | Spinach | 0.768 | 0.437 | Bottled water | 1.190 | 0.735 |
| Pork with bone | 0.276 | 0.289 | Beet | 0.555 | 0.495 | Eggs | 0.133 | 0.104 |
| Goat/Sheep | 0.261 | 0.184 | Cabbage | 0.323 | 0.448 | Avena (oats) | n/a | 0.403 |
| Other bird meat | 0.401 | 0.376 | Garlic | 0.441 | 0.453 | Bienestarina | n/a | 0.796 |
| Canned meat | 1.129 | 0.713 | Aji | 0.729 | 1.007 | Liver | n/a | 0.234 |
| Cold meats | 0.482 | 0.486 | Other green veg | 0.478 | 0.467 | | | |
| Tongue, feet, etc | 0.381 | 0.432 | Chick peas | 0.272 | 0.212 | | | |
| Fish | 0.473 | 0.469 | Dry peas | 0.165 | 0.262 | | | |
| Seafood | 0.638 | 0.546 | Dry beans | 0.286 | 0.311 | | | |
| Tuna/Sardines | 0.338 | 0.316 | Lentils | 0.143 | 0.271 | | | |
| Milk | 0.365 | 0.287 | Other grains | 0.430 | 0.419 | | | |
| Powdered milk | 0.679 | 0.594 | Plantains | 0.462 | 0.495 | | | |
| Curdled cheese | 0.279 | 0.278 | Small plantain | 1.187 | 0.644 | | | |
| Other dairy products | 0.766 | 1.190 | Potatoes | 0.280 | 0.255 | | | |
| Oranges | 0.398 | 0.398 | Creole potatoes | 0.338 | 0.355 | | | |
| Lemons | 0.506 | 0.241 | Arracacha | 0.348 | 0.346 | | | |

| | Correlation Median Unit Value and Shop price | | | | | | | |
|-------------------|--|--------|--------|--------|-------|-------|-------|--|
| Food Type | Oct-98 | May-99 | Nov-99 | Nov-00 | 2003 | 2007 | ALL | |
| Tomatoes | 0.13 | 0.10 | 0.34 | -0.04 | 0.30 | 0.53 | 0.49 | |
| Onions | 0.08 | 0.05 | 0.10 | 0.21 | 0.09 | 0.03 | 0.19 | |
| Potatoes | 0.34 | 0.27 | 0.20 | 0.30 | 0.17 | 0.30 | 0.26 | |
| Carrots | -0.12 | 0.21 | 0.27 | 0.23 | 0.33 | 0.45 | 0.26 | |
| Leafy Vegetables | n/a | n/a | n/a | n/a | n/a | n/a | n/a | |
| Oranges | -0.16 | 0.00 | 0.03 | 0.22 | 0.00 | 0.09 | 0.11 | |
| Bananas | 0.17 | 0.44 | 0.18 | 0.26 | 0.28 | 0.24 | 0.32 | |
| Apples | 0.10 | 0.35 | 0.24 | 0.06 | 0.06 | -0.43 | 0.09 | |
| Lemons | 0.22 | -0.06 | 0.42 | -0.14 | 0.12 | 0.38 | 0.17 | |
| Pricky pears | n/a | n/a | n/a | n/a | n/a | n/a | n/a | |
| Tortilla | 0.14 | -0.13 | 0.08 | 0.36 | 0.11 | 0.06 | 0.19 | |
| Maize Grain | n/a | 0.21 | 0.11 | 0.10 | 0.06 | 0.20 | 0.14 | |
| White Bread | n/a | n/a | n/a | n/a | n/a | n/a | n/a | |
| Sweet Bread | n/a | n/a | n/a | n/a | n/a | n/a | n/a | |
| Loaf of Bread | -0.04 | 0.05 | -0.18 | -0.06 | 0.03 | 0.02 | 0.11 | |
| Wheat Flour | 0.13 | 0.00 | 0.06 | -0.09 | 0.02 | -0.10 | 0.02 | |
| Pasta Soup | 0.18 | 0.18 | 0.02 | -0.02 | 0.02 | 0.13 | 0.02 | |
| Rice | 0.02 | -0.03 | 0.05 | 0.05 | 0.00 | 0.06 | 0.21 | |
| Salt Cakes | 0.09 | 0.03 | -0.04 | 0.01 | 0.12 | 0.18 | 0.02 | |
| Beans | 0.27 | 0.14 | 0.18 | 0.18 | 0.11 | 0.20 | 0.42 | |
| Breakfast Cereal | n/a | n/a | n/a | n/a | n/a | n/a | n/a | |
| Chicken | 0.17 | 0.61 | 0.44 | 0.42 | 0.64 | 0.54 | 0.46 | |
| Beef and Pork | n/a | n/a | n/a | n/a | n/a | n/a | n/a | |
| Lamb and Goat | -0.25 | -0.53 | -0.31 | -0.43 | 0.17 | -0.17 | -0.49 | |
| Fish | -0.50 | -0.20 | -0.01 | -0.23 | -0.11 | 0.51 | -0.19 | |
| Tinned Fish | n/a | n/a | n/a | n/a | n/a | n/a | n/a | |
| Eggs | 0.10 | -0.01 | n/a | 0.15 | 0.22 | 0.04 | 0.19 | |
| Milk | 0.19 | 0.03 | 0.08 | 0.03 | 0.00 | -0.02 | 0.06 | |
| Cheese | 0.05 | -0.13 | 0.27 | 0.14 | -0.01 | 0.03 | 0.10 | |
| Lard | 0.09 | 0.17 | 0.24 | 0.42 | 0.46 | 0.39 | 0.44 | |
| Sweets | 0.10 | 0.00 | -0.03 | 0.02 | -0.05 | 0.04 | 0.00 | |
| Carbonated Drinks | -0.13 | 0.07 | 0.07 | -0.04 | -0.04 | -0.09 | 0.11 | |
| Alcoholic Drinks | n/a | n/a | n/a | n/a | n/a | n/a | n/a | |
| Coffee | 0.19 | 0.02 | 0.06 | 0.15 | 0.09 | -0.11 | 0.21 | |
| Sugar | 0.08 | n/a | n/a | 0.14 | -0.09 | 0.21 | 0.14 | |
| Vegetable Oil | 0.24 | 0.32 | 0.19 | 0.03 | 0.11 | 0.23 | 0.46 | |

Table 10.M: Correlation of Shop Prices and Unit Values - Mexico

Notes: Prices are an unweighted average of reported shop prices in the main shop contacted in each locality, in constant October 2007 prices. Shop prices are not available for the full range of goods.

| Food Type | Oct-03 | Mar 06 | Food Type | Oct-03 | Mar 06 | Food Type | Oct-03 | Mar 06 |
|------------------------|--------|--------|-----------------|--------|--------|------------------------|--------|--------|
| Rice | 0.59 | 0.41 | Melon | n/a | n/a | Tomato sauce, etc | 0.53 | n/a |
| Bread | 0.05 | 0.20 | Mango | n/a | n/a | Juice concentrates | 0.38 | 0.16 |
| Biscuits | 0.08 | 0.07 | Guava | 0.36 | 0.71 | Coffee | 0.13 | 0.09 |
| Other bread products | n/a | n/a | Blackberry | 0.19 | 0.28 | Chocolate/Cocoa | 0.71 | 0.63 |
| Pasta/VermiceIlli | -0.07 | 0.44 | Passion Fruit | 0.69 | 0.52 | Aromatic herbs | n/a | n/a |
| Barley Cereal | 0.62 | 0.44 | Pineapple | n/a | n/a | Salt | 0.54 | 0.56 |
| Malt Soup | -0.25 | 0.66 | Coconut | n/a | n/a | Sugar (refined, brown) | 0.34 | 0.30 |
| Corn Soup | 0.64 | 0.12 | Other fruit | 0.40 | -0.02 | Unprocessed Sugar | 0.73 | 0.60 |
| Wheat Soup | 0.57 | -0.03 | Green beans | 0.58 | 0.42 | Vegetable oil | 0.07 | 0.32 |
| Corn flour | 0.31 | 0.32 | Carrots | 0.54 | 0.23 | Vegetable fat | 0.05 | 0.01 |
| Precooked corn flour | 0.33 | 0.15 | Broad beans | 0.87 | 0.97 | Butter | 0.26 | -0.03 |
| Corn | 0.46 | 0.22 | Tomatoes | 0.47 | 0.39 | Margarine | 0.66 | 0.30 |
| Wheat Flour | 0.40 | 0.18 | Spring Onions | 0.53 | 0.47 | Lard | n/a | n/a |
| Infant Feeding Cereals | n/a | n/a | Onions | 0.40 | 0.45 | Lemonade | -0.19 | 0.35 |
| Hueso de res | 0.70 | 0.41 | Cob | n/a | n/a | Packaged drinks | n/a | n/a |
| Menudencias de pollo | 0.40 | 0.25 | Green peas | 0.68 | 0.69 | Powdered cool drinks | 0.36 | 0.05 |
| Chicken/hen | 0.69 | 0.34 | Lettuce | 0.41 | 0.46 | Bottled water | n/a | n/a |
| Beef without bone | 0.73 | 0.46 | Kidney beans | 0.36 | 0.54 | Eggs | 0.37 | 0.08 |
| Beef with bone | 0.02 | 0.12 | Spinach | n/a | n/a | Avena (oats) | n/a | 0.22 |
| Mincemeat | 0.48 | 0.09 | Beet | n/a | n/a | Bienestarina | n/a | -1.00 |
| Pork without bone | 0.73 | 0.70 | Cabbage | 0.54 | 0.21 | Liver | n/a | 0.80 |
| Pork with bone | 0.23 | 0.27 | Garlic | 0.31 | -0.35 | | | |
| Goat/Sheep | 1.00 | n/a | Aji | 0.56 | 0.52 | | | |
| Other bird meat | n/a | n/a | Other green veg | 0.35 | n/a | | | |
| Canned meat | n/a | n/a | Chick peas | 0.58 | -0.18 | | | |
| Cold meats | -0.09 | -0.28 | Dry peas | 0.26 | 0.19 | | | |
| Tongue, feet, etc | 0.39 | -0.71 | Dry beans | 0.56 | 0.40 | | | |
| Fish | 0.58 | 0.50 | Lentils | 0.45 | 0.35 | | | |
| Seafood | n/a | n/a | Other grains | 0.14 | n/a | | | |
| Tuna/Sardines | 0.37 | 0.19 | Plantains | 0.82 | 0.70 | | | |
| Milk | 0.62 | 0.28 | Small plantain | n/a | n/a | | | |
| Powdered milk | -0.11 | -0.04 | Potatoes | 0.66 | 0.38 | | | |
| Curdled cheese | 0.57 | 0.43 | Creole potatoes | 0.60 | 0.58 | | | |
| Other dairy products | 0.47 | 0.03 | Arracacha | 0.28 | 0.73 | | | |
| Oranges | 0.76 | -0.01 | Yam | 0.75 | 0.73 | | | |
| Lemons | 0.51 | 0.05 | Yucca | 0.69 | 0.67 | | | |
| Tangarines | n/a | n/a | Other root veg | 0.73 | 0.99 | | | |
| Banana | 0.45 | 0.35 | Condiments | 0.67 | 0.28 | | | |

 Table 10.C: Correlation of Shop Prices and Unit Values - Colombia

| Group | Group Name | Foods |
|--------|-------------------------------|---|
| 1 | Rice | Rice |
| 2 | Corn | Maize Tortilla, Maize grain, Breakfast cereals |
| 3 | Wheat | White bread, sweet bread, loaf of bread, wheat flour, biscuits |
| 4 | Pulses | Beans |
| 5 | Fruits | Tomatoes, Onions, Carrots, Leafy vegetables, Oranges, Bananas, Apples, Lemons, Prickly pears |
| 6 | Animal | Chicken, Beef and pork, Goat and sheep, Fish, Tinned Fish, Eggs, Milk, Cheese, Lard |
| 7 8 | Other foods Other starches | Sweets, Carbonated Beverages, Coffee, Sugar, Vegetable Oil Potatoes, Pasta Soup |

Table 11.M: Composition of Food Groups - Mexico

| Group | Group Name | Component Foods |
|-------|----------------------|---|
| 1 | Rice | rice |
| 2 | Corn | Cuchuco de maiz, Maize flour, Pre-cooked maize flour, maize, infant feeding cereals |
| 3 | Wheat and Barley | Bread, Biscuits, Other bread products, pasta or vermicelli, barley cereal, cuchuco de cebada (malt soup), cuchuco de trigo, wheat flour |
| 4 | Pulses | chick peas, dry peas, dry beans, lentils, other grains |
| 5 | Fruit and Vegetables | oranges, lemons, tangarines, bananas, melons, mangoes, guava, blackberry, passion fruit, pineapple, coconut, other fruits, green beans, carrots, broad beans, tomatoes, spring onions, onions, cob, green peas, lettuce, kidney beans, spinach, beet, cabbage, garlic, aji (?), other green vegetables |
| 6 | Animal | cattle head, menudencias de pollo (chicken), chicken, beef without bone, beef with bone, mincemeat, pork without bone, pork with bone/bone itself, goat or sheep, other bird meat, canned meat, cold meats, tongue/feet etc, fish, seafood, tuna or canned sardines, milk, milk powder, cheese, other dairy products, eggs, liver (wave 3 only) |
| 7 | Other starches | plantain, small plantain, potatoes, creolle potatoes, arracacha, yam, yucca, other root vegetables |
| 8 | Other foods | condiments, tomato sauce/mayonnaise/mustard/vinegar, juice concentrates, coffee, chocolate/cocoa, aromatic herbs, salt, sugar (refined or brown), unprocessed sugar, vegetable oil, vegetable fat, butter, margarine, lard, lemonade, packaged drinks, powdered cool drinks, bottled water |

| Food Type | Oct-98 | May-99 | Nov-99 | Nov-00 | 2003 | 2007 |
|-----------------------|--------|--------|--------|--------|------|------|
| Rice | 1.99 | 2.03 | 2.01 | 1.97 | 1.88 | 2.17 |
| Corn | 0.99 | 0.97 | 0.99 | 0.98 | 1.53 | 1.96 |
| Wheat | 2.27 | 2.31 | 2.32 | 2.43 | 2.61 | 2.95 |
| Pulses | 2.42 | 2.32 | 2.31 | 2.21 | 2.34 | 2.52 |
| Fruits and Vegetables | 1.93 | 1.65 | 1.66 | 1.76 | 2.02 | 2.31 |
| Animal Products | 2.68 | 2.73 | 2.74 | 2.82 | 2.92 | 3.13 |
| Other Foods | 2.37 | 2.29 | 2.32 | 2.28 | 2.31 | 2.64 |
| Other Starches | 2.19 | 2.15 | 2.15 | 2.11 | 2.35 | 2.45 |

Table 12.M: Summary Statistics of Group (Stone) Prices - Mexico

Mean Log Price of Detailed Commodity Group

Standard Deviation of Log Price of Detailed Commodity Group

| Food Type | Oct-98 | May-99 | Nov-99 | Nov-00 | 2003 | 2007 |
|-----------------------|--------|--------|--------|--------|-------|-------|
| Rice | 0.094 | 0.061 | 0.107 | 0.075 | 0.074 | 0.085 |
| Corn | 0.078 | 0.158 | 0.197 | 0.229 | 0.219 | 0.179 |
| Wheat | 0.272 | 0.280 | 0.412 | 0.397 | 0.140 | 0.237 |
| Pulses | 0.080 | 0.039 | 0.044 | 0.117 | 0.073 | 0.071 |
| Fruits and Vegetables | 0.116 | 0.103 | 0.139 | 0.157 | 0.104 | 0.138 |
| Animal Products | 0.159 | 0.147 | 0.147 | 0.118 | 0.148 | 0.212 |
| Other Foods | 0.155 | 0.150 | 0.154 | 0.168 | 0.157 | 0.292 |
| Other Starches | 0.105 | 0.136 | 0.141 | 0.214 | 0.125 | 0.123 |

Notes: Log prices for each commodity group are unweighted averages of lowest-available-area stone prices, where the prices of the sub-component commodies are in constant **nominal** prices. This differs to other tables (where prices are reported in 2007 prices) because the model was estimated using nominal prices (because no normalisation is required when the full price index is being estimated). The stone prices are calculated using plutocratic consumption shares for the sub-component commodities. The lowest available-area is typically the locality but occasionally the municipality or state for commodities rarely consumed.
| | Mean Log Price of Detailed Commodity Group | | | | | | | | | |
|-----------------|--|-----------------|------|-------------------|--|--|--|--|--|--|
| Food Type | July-Oct03 | Nov 05 - Mar 06 | All | % Change 06-03 | | | | | | |
| Rice | 7.31 | 7.33 | 7.32 | 0.02 | | | | | | |
| Corn | 7.36 | 7.41 | 7.39 | 0.05 | | | | | | |
| Wheat | 6.50 | 6.65 | 6.58 | 0.16 | | | | | | |
| Pulses | 7.93 | 7.96 | 7.94 | 0.03 | | | | | | |
| Fruits and Veg | 6.82 | 6.93 | 6.87 | 0.10 | | | | | | |
| Animal Products | 7.94 | 8.03 | 7.98 | 0.09 | | | | | | |
| Other Foods | 7.53 | 7.56 | 7.55 | 0.03 | | | | | | |
| Other Starches | 6.24 | 6.38 | 6.31 | 0.15 | | | | | | |

Table 12.C: Summary Statistics of Group (Stone) Prices - Colombia

Std Dev of Log Price of Detailed Commodity Group

| Food Type | July-Oct03 | Nov 05 - Mar 06 | All |
|-----------------|------------|-----------------|-------|
| Rice | 0.097 | 0.106 | 0.102 |
| Corn | 0.316 | 0.307 | 0.306 |
| Wheat | 0.376 | 0.352 | 0.374 |
| Pulses | 0.145 | 0.149 | 0.148 |
| Fruits and Veg | 0.235 | 0.290 | 0.270 |
| Animal Products | 0.207 | 0.204 | 0.210 |
| Other Foods | 0.275 | 0.206 | 0.244 |
| Other Starches | 0.307 | 0.286 | 0.308 |

Notes: Log prices for each commodity group are unweighted averages of lowest-available-area stone prices, where the prices of the sub-component commodies are in constant **nominal** prices. This differs to other tables (where prices are reported in 2007 prices) because the model was estimated using nominal prices (because no normalisation is required when the full price index is being estimated). The stone prices are calculated using plutocratic consumption shares for the sub-component commodities. The lowest available-area is typically the municipality but occassionally the state for commodities rarely consumed.

| Mean Share of Detailed Commodity Group | | | | | | | | |
|--|--------|--------|--------|--------|------|------|--|--|
| Food Type | Oct-98 | May-99 | Nov-99 | Nov-00 | 2003 | 2007 | | |
| Rice | 2.1 | 2.1 | 2.1 | 2.3 | 1.8 | 2.5 | | |
| Corn | 28.0 | 30.3 | 25.9 | 23.5 | 25.9 | 28.0 | | |
| Wheat | 2.8 | 2.9 | 3.3 | 2.8 | 5.2 | 4.0 | | |
| Pulses | 11.7 | 10.7 | 10.5 | 9.0 | 7.1 | 7.2 | | |
| Fruits and Vegetables | 17.9 | 13.5 | 15.8 | 18.7 | 19.0 | 18.5 | | |
| Animal Products | 16.5 | 17.9 | 19.7 | 21.8 | 21.9 | 21.0 | | |
| Other Foods | 16.7 | 18.3 | 18.1 | 17.4 | 14.6 | 13.2 | | |
| Other Starches | 4.4 | 4.3 | 4.6 | 4.5 | 4.5 | 5.6 | | |

Table 13.M: Summary Statistics of Group Shares - Mexico

Standard Deviation of Share of Detailed Commodity Group

| Food Type | Oct-98 | May-99 | Nov-99 | Nov-00 | 2003 | 2007 |
|-----------------------|--------|--------|--------|--------|------|------|
| Rice | 3.1 | 3.1 | 2.6 | 2.6 | 2.8 | 5.9 |
| Corn | 15.5 | 16.2 | 13.3 | 12.9 | 15.6 | 20.3 |
| Wheat | 4.5 | 4.9 | 5.4 | 4.5 | 6.8 | 8.7 |
| Pulses | 7.9 | 7.4 | 6.8 | 6.3 | 5.8 | 7.9 |
| Fruits and Vegetables | 8.4 | 7.4 | 7.0 | 8.0 | 8.8 | 15.6 |
| Animal Products | 12.6 | 13.1 | 13.3 | 12.8 | 13.9 | 16.8 |
| Other Foods | 9.4 | 10.2 | 9.0 | 9.4 | 8.9 | 13.3 |
| Other Starches | 4.6 | 4.4 | 4.0 | 4.2 | 4.9 | 9.6 |

Notes: These are shares of the total food budget. See Table 11.M for the composition of the food groups

| Food Type | Oct-03 | Mar-06 | All |
|-----------------------|--------|--------|--------|
| Rice | 10.71% | 10.49% | 10.60% |
| Corn | 3.96% | 2.86% | 3.40% |
| Wheat | 6.20% | 7.93% | 7.07% |
| Pulses | 3.89% | 3.66% | 3.77% |
| Fruits and Vegetables | 14.48% | 11.49% | 12.97% |
| Animal Products | 31.67% | 32.87% | 32.28% |
| Other Foods | 18.60% | 18.90% | 18.75% |
| Other Starches | 10.50% | 11.80% | 11.15% |

Table 13.C: Summary Statistics of Group Shares - Colombia

Std Dev of Share of Detailed Commodity Group

Mean Share of Detailed Commodity Group

| Food Type | Oct-03 | Mar-06 | All |
|-----------------------|--------|--------|--------|
| Rice | 8.75% | 8.46% | 8.61% |
| Corn | 6.69% | 4.93% | 5.90% |
| Wheat | 7.24% | 8.74% | 8.09% |
| Pulses | 6.34% | 4.75% | 5.60% |
| Fruits and Vegetables | 11.98% | 8.62% | 10.54% |
| Animal Products | 17.41% | 15.32% | 16.40% |
| Other Foods | 10.96% | 9.55% | 10.28% |
| Other Starches | 9.14% | 9.69% | 9.45% |

Notes: These are shares of the total food budget. See Table 11.C for the composition of the food groups

Table 14: Income Elasticities (Evaluated at Means)

| Food | Mexico | Colombia |
|-----------------|--------|----------|
| Rice | 0.71 | 0.76 |
| Corn | 0.74 | 1.11 |
| Wheat | 2.37 | 0.93 |
| Pulses | 0.51 | 0.46 |
| Fruit & Veg | 0.98 | 0.94 |
| Animal Products | 1.66 | 1.57 |
| Other Foods | 0.59 | 0.84 |
| Other Starches | 1.31 | 0.11 |

| Decile | Rice | Corn | Wheat | Pulses | Fruit & Veg | Meat & Dairy | Other Goods | Other Starches |
|---------|-------|-------|-------|--------|-------------|--------------|-------------|----------------|
| Lowest | 0.929 | 0.753 | 1.657 | 0.516 | 0.973 | 2.148 | 0.656 | 1.253 |
| 2nd | 0.879 | 0.751 | 1.822 | 0.460 | 0.959 | 1.935 | 0.627 | 1.263 |
| 3rd | 0.848 | 0.742 | 1.861 | 0.436 | 0.952 | 1.767 | 0.606 | 1.267 |
| 4th | 0.819 | 0.741 | 1.907 | 0.446 | 0.945 | 1.689 | 0.583 | 1.266 |
| 5th | 0.784 | 0.740 | 1.972 | 0.463 | 0.940 | 1.650 | 0.569 | 1.271 |
| 6th | 0.749 | 0.743 | 2.017 | 0.474 | 0.935 | 1.600 | 0.552 | 1.268 |
| 7th | 0.707 | 0.742 | 2.053 | 0.489 | 0.931 | 1.565 | 0.539 | 1.268 |
| 8th | 0.657 | 0.741 | 2.061 | 0.500 | 0.926 | 1.524 | 0.524 | 1.269 |
| 9th | 0.581 | 0.738 | 2.074 | 0.534 | 0.919 | 1.486 | 0.500 | 1.278 |
| Highest | 0.412 | 0.713 | 2.112 | 0.585 | 0.902 | 1.422 | 0.473 | 1.286 |

Table 14b.M: Income Elasticities (Distribution by Income) - Mexico

Table 14b.C: Income Elasticities (Distribution by Income) - Colombia

| Decile | Rice | Corn | Wheat | Pulses | Fruit & Veg | Meat & Dairy | Other Goods | Other Starches |
|---------|-------|-------|-------|--------|-------------|--------------|-------------|----------------|
| Lowest | 0.730 | 1.127 | 0.674 | 0.886 | 1.054 | 1.685 | 0.972 | -0.040 |
| 2nd | 0.724 | 1.143 | 0.709 | 0.770 | 1.010 | 1.652 | 0.930 | -0.118 |
| 3rd | 0.718 | 1.135 | 0.769 | 0.689 | 0.985 | 1.623 | 0.905 | -0.117 |
| 4th | 0.717 | 1.138 | 0.822 | 0.617 | 0.969 | 1.597 | 0.878 | -0.064 |
| 5th | 0.720 | 1.127 | 0.868 | 0.544 | 0.956 | 1.575 | 0.860 | -0.092 |
| 6th | 0.725 | 1.119 | 0.919 | 0.469 | 0.940 | 1.560 | 0.837 | -0.079 |
| 7th | 0.714 | 1.110 | 0.961 | 0.387 | 0.928 | 1.552 | 0.816 | -0.060 |
| 8th | 0.729 | 1.098 | 1.006 | 0.326 | 0.911 | 1.541 | 0.788 | -0.092 |
| 9th | 0.734 | 1.076 | 1.068 | 0.131 | 0.897 | 1.522 | 0.743 | -0.112 |
| Highest | 0.748 | 1.041 | 1.198 | 0.007 | 0.861 | 1.528 | 0.678 | -0.147 |

Table 15.M: Price Elasticities (Evaluated at Means) - Mexico

| | Rice | Corn | Wheat | Pulses | Fruit&Veg | Animals | Other | Other St |
|-----------|--------|--------|--------|--------|-----------|---------|--------|----------|
| Rice | -0.680 | 0.077 | -0.217 | 0.033 | 0.098 | -0.180 | 0.198 | -0.037 |
| Corn | 0.005 | -0.840 | 0.066 | -0.096 | 0.107 | 0.102 | -0.128 | 0.041 |
| Wheat | -0.166 | 0.050 | -1.014 | -0.258 | -0.394 | -0.246 | -0.536 | 0.191 |
| Pulses | 0.012 | -0.200 | -0.031 | -0.415 | 0.102 | -0.346 | 0.186 | 0.186 |
| Fruit&Veg | 0.009 | 0.142 | -0.050 | 0.024 | -0.926 | -0.008 | -0.181 | 0.006 |
| Animals | -0.040 | -0.124 | -0.016 | -0.275 | -0.101 | -0.753 | -0.223 | -0.128 |
| Other | 0.028 | -0.161 | -0.051 | 0.098 | -0.096 | -0.051 | -0.413 | 0.059 |
| Other St | -0.030 | 0.080 | 0.186 | 0.310 | -0.028 | -0.484 | 0.089 | -1.434 |

Marshallian (Uncompensated) Elasticities

Hicksian (Uncompensated) Elasticities

| | Rice | Corn | Wheat | Pulses | Fruit&Veg | Animals | Other | Other St |
|-----------|--------|--------|--------|--------|-----------|---------|--------|----------|
| Rice | -0.664 | 0.276 | -0.192 | 0.102 | 0.199 | -0.035 | 0.318 | -0.004 |
| Corn | 0.021 | -0.632 | 0.093 | -0.023 | 0.213 | 0.254 | -0.001 | 0.076 |
| Wheat | -0.115 | 0.715 | -0.928 | -0.027 | -0.055 | 0.240 | -0.132 | 0.302 |
| Pulses | 0.023 | -0.059 | -0.013 | -0.366 | 0.174 | -0.243 | 0.272 | 0.210 |
| Fruit&Veg | 0.030 | 0.418 | -0.014 | 0.120 | -0.785 | 0.193 | -0.013 | 0.052 |
| Animals | -0.004 | 0.341 | 0.043 | -0.113 | 0.136 | -0.413 | 0.060 | -0.050 |
| Other | 0.041 | 0.003 | -0.030 | 0.155 | -0.012 | 0.069 | -0.313 | 0.086 |
| Other St | -0.002 | 0.448 | 0.233 | 0.438 | 0.159 | -0.216 | 0.312 | -1.373 |

Notes: Elasticities are evaluated at sample means of prices, incomes and demographic variables. Colours indicate significance. Black is insignificant. Dark Blue is Significant at the 10% level, Mid Blue at the 5% and Cyan at the 1%. Standard errors estimated numerically and clustered at the locality level.

Table 15.C: Price Elasticities (Evaluated at Means) - Colombia

| | Rice | Corn | Wheat | Pulses | Fruit&Veg | Animals | Other | Other St |
|-----------|--------|--------|--------|--------|-----------|---------|--------|----------|
| Rice | -1.307 | 0.171 | -0.146 | 0.811 | -0.052 | 0.138 | -0.291 | -0.080 |
| Corn | 0.495 | -1.096 | 0.288 | -0.600 | 0.088 | -0.560 | -0.065 | 0.337 |
| Wheat | -0.238 | 0.145 | -0.835 | 0.023 | -0.041 | -0.467 | 0.182 | 0.297 |
| Pulses | 2.316 | -0.520 | 0.077 | -2.062 | -0.045 | -0.020 | -0.122 | -0.079 |
| Fruit&Veg | -0.062 | 0.029 | -0.023 | -0.032 | -0.789 | -0.089 | 0.086 | -0.063 |
| Animals | -0.041 | -0.075 | -0.146 | -0.043 | -0.117 | -0.746 | -0.201 | -0.199 |
| Other | -0.174 | -0.002 | 0.075 | -0.040 | 0.073 | -0.108 | -0.826 | 0.163 |
| Other St | -0.007 | 0.137 | 0.245 | -0.016 | 0.035 | -0.106 | 0.414 | -0.814 |

Marshallian (Uncompensated) Elasticities

Hicksian (Uncompensated) Elasticities

| | Rice | Corn | Wheat | Pulses | Fruit&Veg | Animals | Other | Other St |
|-----------|--------|--------|--------|--------|-----------|---------|--------|----------|
| Rice | -1.226 | 0.197 | -0.093 | 0.840 | 0.046 | 0.382 | -0.149 | 0.004 |
| Corn | 0.613 | -1.058 | 0.367 | -0.558 | 0.232 | -0.200 | 0.143 | 0.461 |
| Wheat | -0.139 | 0.177 | -0.769 | 0.058 | 0.080 | -0.165 | 0.357 | 0.401 |
| Pulses | 2.364 | -0.504 | 0.109 | -2.045 | 0.014 | 0.127 | -0.037 | -0.028 |
| Fruit&Veg | 0.038 | 0.061 | 0.044 | 0.004 | -0.666 | 0.215 | 0.262 | 0.042 |
| Animals | 0.125 | -0.021 | -0.035 | 0.016 | 0.087 | -0.240 | 0.093 | -0.024 |
| Other | -0.085 | 0.026 | 0.134 | -0.008 | 0.182 | 0.163 | -0.669 | 0.257 |
| Other St | 0.005 | 0.141 | 0.253 | -0.012 | 0.049 | -0.070 | 0.435 | -0.802 |

Notes: Elasticities are evaluated at sample means of prices, incomes and demographic variables. Colours indicate significance. Black is insignificant. Dark Blue is Significant at the 10% level, Mid Blue at the 5% and Cyan at the 1%. Standard errors estimated numerically and clustered at the locality level.

Table 15b.M: Marshallian Own Price Elasticities (Distribution) - Mexico

Variation by Income Decile

| Decile | Rice | Corn | Wheat | Pulses | Fruit & Veg | Meat & Dairy | Other Goods | Other Starches |
|---------|--------|--------|--------|--------|-------------|--------------|-------------|----------------|
| Lowest | -0.897 | -0.850 | -0.994 | -0.532 | -0.949 | -0.723 | -0.550 | -1.051 |
| 2nd | -0.869 | -0.845 | -0.989 | -0.408 | -0.942 | -0.730 | -0.492 | -1.057 |
| 3rd | -0.856 | -0.838 | -0.986 | -0.333 | -0.940 | -0.762 | -0.451 | -1.060 |
| 4th | -0.843 | -0.836 | -0.985 | -0.302 | -0.937 | -0.769 | -0.412 | -1.062 |
| 5th | -0.825 | -0.834 | -0.984 | -0.290 | -0.935 | -0.770 | -0.382 | -1.065 |
| 6th | -0.810 | -0.835 | -0.984 | -0.250 | -0.933 | -0.777 | -0.349 | -1.066 |
| 7th | -0.791 | -0.833 | -0.984 | -0.219 | -0.933 | -0.778 | -0.320 | -1.068 |
| 8th | -0.771 | -0.831 | -0.983 | -0.158 | -0.931 | -0.781 | -0.288 | -1.071 |
| 9th | -0.737 | -0.829 | -0.983 | -0.118 | -0.930 | -0.782 | -0.239 | -1.077 |
| Highest | -0.668 | -0.810 | -0.986 | 0.029 | -0.923 | -0.781 | -0.166 | -1.087 |

Variation by Household Type

| Household Type | Rice | Corn | Wheat | Pulses | Fruit & Veg | Meat & Dairy | Other Goods | Other Starches |
|-------------------------|--------|--------|--------|--------|-------------|--------------|-------------|----------------|
| Male, No Children | -0.814 | -0.832 | -0.997 | -0.295 | -0.940 | -0.815 | -0.421 | -1.068 |
| Male, 0-2 Children | -0.801 | -0.830 | -0.990 | -0.264 | -0.938 | -0.794 | -0.387 | -1.067 |
| Male, 3+ Children | -0.792 | -0.839 | -0.978 | -0.292 | -0.933 | -0.748 | -0.358 | -1.069 |
| Female, No Children | -0.822 | -0.830 | -1.002 | -0.303 | -0.942 | -0.825 | -0.424 | -1.064 |
| Female, 0-2 Children | -0.812 | -0.833 | -0.996 | -0.257 | -0.940 | -0.810 | -0.388 | -1.067 |
| Female, 3+ Children | -0.804 | -0.836 | -0.987 | -0.280 | -0.938 | -0.759 | -0.356 | -1.067 |
| Head Aged 65+ | -0.837 | -0.825 | -0.997 | -0.371 | -0.938 | -0.819 | -0.445 | -1.062 |
| Large House | -0.774 | -0.840 | -0.968 | -0.277 | -0.932 | -0.720 | -0.310 | -1.069 |
| Large House 8+ Children | -0.775 | -0.842 | -0.958 | -0.363 | -0.926 | -0.673 | -0.289 | -1.067 |

Table 15b.C: Marshallian Own Price Elasticities (Distribution) - Colombia

Variation by Income Decile

| Decile | Rice | Corn | Wheat | Pulses | Fruit & Veg | Meat & Dairy | Other Goods | Other Starches |
|---------|--------|--------|--------|--------|-------------|--------------|-------------|----------------|
| Lowest | -1.234 | -1.064 | -0.967 | -1.738 | -0.769 | -0.715 | -0.927 | -0.860 |
| 2nd | -1.262 | -1.082 | -0.906 | -1.888 | -0.752 | -0.720 | -0.892 | -0.826 |
| 3rd | -1.292 | -1.088 | -0.873 | -1.929 | -0.737 | -0.738 | -0.872 | -0.809 |
| 4th | -1.315 | -1.095 | -0.853 | -1.971 | -0.743 | -0.743 | -0.852 | -0.810 |
| 5th | -1.327 | -1.095 | -0.823 | -2.033 | -0.751 | -0.749 | -0.835 | -0.792 |
| 6th | -1.338 | -1.102 | -0.811 | -2.069 | -0.750 | -0.757 | -0.823 | -0.785 |
| 7th | -1.372 | -1.102 | -0.802 | -2.122 | -0.751 | -0.758 | -0.805 | -0.780 |
| 8th | -1.393 | -1.107 | -0.778 | -2.140 | -0.752 | -0.763 | -0.785 | -0.762 |
| 9th | -1.434 | -1.102 | -0.744 | -2.307 | -0.762 | -0.771 | -0.756 | -0.740 |
| Highest | -1.531 | -1.098 | -0.698 | -2.254 | -0.742 | -0.764 | -0.719 | -0.699 |

Variation by Household Type

| Household Type | Rice | Corn | Wheat | Pulses | Fruit & Veg | Meat & Dairy | Other Goods | Other Starches |
|-------------------------|--------|--------|--------|--------|-------------|--------------|-------------|----------------|
| Male, No Children | -1.317 | -1.095 | -0.842 | -2.197 | -0.738 | -0.768 | -0.856 | -0.832 |
| Male, 0-2 Children | -1.359 | -1.098 | -0.830 | -2.087 | -0.756 | -0.768 | -0.838 | -0.795 |
| Male, 3+ Children | -1.324 | -1.094 | -0.813 | -2.092 | -0.748 | -0.739 | -0.820 | -0.774 |
| Female, No Children | -1.316 | -1.113 | -0.915 | -2.064 | -0.785 | -0.788 | -0.877 | -0.841 |
| Female, 0-2 Children | -1.389 | -1.091 | -0.874 | -2.007 | -0.774 | -0.771 | -0.858 | -0.822 |
| Female, 3+ Children | -1.347 | -1.096 | -0.857 | -2.001 | -0.751 | -0.748 | -0.837 | -0.794 |
| Head Aged 65+ | -1.393 | -1.077 | -0.895 | -1.939 | -0.794 | -0.770 | -0.871 | -0.858 |
| Large House | -1.253 | -1.092 | -0.777 | -2.146 | -0.713 | -0.708 | -0.800 | -0.728 |
| Large House 8+ Children | -1.229 | -1.083 | -0.774 | -2.188 | -0.672 | -0.678 | -0.806 | -0.768 |

Table 15c.M: Hicksian Own Price Elasticities (Distribution) - Mexico

Variation by Income Decile

| Decile | Rice | Corn | Wheat | Pulses | Fruit & Veg | Meat & Dairy | Other Goods | Other Starches |
|---------|--------|--------|--------|--------|-------------|--------------|-------------|----------------|
| Lowest | -0.842 | -0.613 | -0.875 | -0.459 | -0.794 | -0.384 | -0.395 | -0.964 |
| 2nd | -0.831 | -0.615 | -0.875 | -0.360 | -0.803 | -0.382 | -0.365 | -0.981 |
| 3rd | -0.824 | -0.615 | -0.872 | -0.292 | -0.804 | -0.391 | -0.339 | -0.988 |
| 4th | -0.814 | -0.614 | -0.871 | -0.263 | -0.805 | -0.394 | -0.312 | -0.993 |
| 5th | -0.800 | -0.612 | -0.869 | -0.249 | -0.806 | -0.396 | -0.289 | -0.999 |
| 6th | -0.788 | -0.612 | -0.867 | -0.211 | -0.805 | -0.395 | -0.264 | -1.003 |
| 7th | -0.772 | -0.609 | -0.865 | -0.181 | -0.805 | -0.395 | -0.241 | -1.007 |
| 8th | -0.754 | -0.605 | -0.862 | -0.123 | -0.806 | -0.393 | -0.214 | -1.013 |
| 9th | -0.724 | -0.602 | -0.859 | -0.080 | -0.806 | -0.390 | -0.172 | -1.023 |
| Highest | -0.659 | -0.595 | -0.856 | 0.063 | -0.805 | -0.380 | -0.107 | -1.040 |

Variation by Household Type

| Household Type | Rice | Corn | Wheat | Pulses | Fruit & Veg | Meat & Dairy | Other Goods | Other Starches |
|-------------------------|--------|--------|--------|--------|-------------|--------------|-------------|----------------|
| Male, No Children | -0.790 | -0.627 | -0.888 | -0.258 | -0.801 | -0.420 | -0.318 | -1.003 |
| Male, 0-2 Children | -0.780 | -0.619 | -0.877 | -0.228 | -0.803 | -0.404 | -0.292 | -1.004 |
| Male, 3+ Children | -0.772 | -0.602 | -0.860 | -0.247 | -0.806 | -0.382 | -0.269 | -1.008 |
| Female, No Children | -0.797 | -0.630 | -0.895 | -0.270 | -0.799 | -0.430 | -0.322 | -0.995 |
| Female, 0-2 Children | -0.788 | -0.619 | -0.883 | -0.222 | -0.801 | -0.413 | -0.294 | -1.002 |
| Female, 3+ Children | -0.783 | -0.606 | -0.869 | -0.240 | -0.801 | -0.389 | -0.267 | -1.003 |
| Head Aged 65+ | -0.808 | -0.633 | -0.887 | -0.327 | -0.804 | -0.420 | -0.332 | -0.992 |
| Large House | -0.757 | -0.588 | -0.847 | -0.229 | -0.805 | -0.367 | -0.231 | -1.011 |
| Large House 8+ Children | -0.760 | -0.576 | -0.836 | -0.296 | -0.808 | -0.347 | -0.213 | -1.007 |

| Decile | Rice | Corn | Wheat | Pulses | Fruit & Veg | Meat & Dairy | Other Goods | Other Starches |
|---------|--------|--------|--------|--------|-------------|--------------|-------------|----------------|
| Lowest | -1.123 | -0.999 | -0.880 | -1.684 | -0.635 | -0.195 | -0.695 | -0.816 |
| 2nd | -1.165 | -1.034 | -0.823 | -1.852 | -0.638 | -0.209 | -0.676 | -0.799 |
| 3rd | -1.208 | -1.043 | -0.798 | -1.893 | -0.626 | -0.213 | -0.669 | -0.789 |
| 4th | -1.240 | -1.054 | -0.782 | -1.946 | -0.632 | -0.211 | -0.666 | -0.787 |
| 5th | -1.254 | -1.055 | -0.754 | -2.012 | -0.631 | -0.208 | -0.659 | -0.775 |
| 6th | -1.268 | -1.065 | -0.742 | -2.060 | -0.631 | -0.207 | -0.655 | -0.771 |
| 7th | -1.309 | -1.065 | -0.730 | -2.110 | -0.630 | -0.207 | -0.646 | -0.763 |
| 8th | -1.333 | -1.074 | -0.708 | -2.128 | -0.626 | -0.199 | -0.636 | -0.748 |
| 9th | -1.381 | -1.069 | -0.672 | -2.304 | -0.619 | -0.195 | -0.626 | -0.737 |
| Highest | -1.487 | -1.066 | -0.609 | -2.254 | -0.611 | -0.175 | -0.596 | -0.700 |

Table 15c.C: Hicksian Own Price Elasticities (Distribution) - Colombia

Variation by Household Type

Variation by Income Decile

| Household Type | Rice | Corn | Wheat | Pulses | Fruit & Veg | Meat & Dairy | Other Goods | Other Starches |
|-------------------------|--------|--------|--------|--------|-------------|--------------|-------------|----------------|
| Male, No Children | -1.241 | -1.052 | -0.765 | -2.173 | -0.621 | -0.224 | -0.658 | -0.800 |
| Male, 0-2 Children | -1.295 | -1.060 | -0.751 | -2.069 | -0.628 | -0.214 | -0.655 | -0.777 |
| Male, 3+ Children | -1.249 | -1.055 | -0.735 | -2.076 | -0.627 | -0.197 | -0.649 | -0.754 |
| Female, No Children | -1.240 | -1.077 | -0.811 | -2.050 | -0.651 | -0.241 | -0.679 | -0.824 |
| Female, 0-2 Children | -1.333 | -1.048 | -0.779 | -1.990 | -0.642 | -0.228 | -0.660 | -0.809 |
| Female, 3+ Children | -1.280 | -1.057 | -0.761 | -1.981 | -0.627 | -0.210 | -0.654 | -0.779 |
| Head Aged 65+ | -1.342 | -1.029 | -0.779 | -1.913 | -0.635 | -0.234 | -0.669 | -0.797 |
| Large House | -1.151 | -1.054 | -0.702 | -2.137 | -0.603 | -0.170 | -0.639 | -0.719 |
| Large House 8+ Children | -1.115 | -1.043 | -0.702 | -2.178 | -0.589 | -0.154 | -0.639 | -0.720 |

| | Pesos | % of |
|-------------------------|----------|-------------|
| Percentiles | per Week | Expenditure |
| No Government | | |
| 1% | -85.06 | -6.5% |
| 5% | 12.87 | 1.5% |
| 10% | 36.53 | 4.2% |
| 25% | 75.39 | 7.9% |
| 50% | 138.01 | 12.1% |
| mean | 170.84 | 13.3% |
| 75% | 231.61 | 17.2% |
| 90% | 353.34 | 24.7% |
| 95% | 448.98 | 32.2% |
| 99% | 686.55 | 41.7% |
| 50 Peso Cash Transfer | | |
| 1% | -135.06 | -15.2% |
| 5% | -37.13 | -5.4% |
| 10% | -13.47 | -1.8% |
| 25% | 25.39 | 2.7% |
| 50% | 88.01 | 7.5% |
| mean | 120.84 | 8.5% |
| 75% | 181.61 | 13.0% |
| 90% | 303.34 | 20.5% |
| 95% | 398.98 | 27.7% |
| 99% | 636.55 | 37.0% |
| <u>5% Price Subsidy</u> | | |
| 1% | -164.11 | -11.6% |
| 5% | -40.19 | -3.7% |
| 10% | -9.71 | -0.8% |
| 25% | 26.11 | 2.8% |
| 50% | 74.65 | 7.0% |
| mean | 100.90 | 8.1% |
| 75% | 150.12 | 12.1% |
| 90% | 254.77 | 19.6% |
| 95% | 339.57 | 27.1% |
| 99% | 543.24 | 36.5% |

Table 16.C: Welfare Impact of Actual 2003-7Price Rises - Colombia

| | Pesos | % of |
|-----------------------|----------|-------------|
| Percentiles | per Week | Expenditure |
| <u>No Government</u> | | |
| 1% | 21450 | 27.2% |
| 5% | 34427 | 28.1% |
| 10% | 44324 | 28.5% |
| 25% | 64863 | 29.2% |
| 50% | 96945 | 30.0% |
| mean | 111817 | 30.0% |
| 75% | 142986 | 30.7% |
| 90% | 201372 | 31.4% |
| 95% | 243869 | 31.8% |
| 99% | 326957 | 32.6% |
| 50 Peso Cash Transfer | | |
| 1% | 11450 | 15.7% |
| 5% | 24427 | 20.9% |
| 10% | 34324 | 22.9% |
| 25% | 54863 | 25.3% |
| 50% | 86945 | 27.2% |
| mean | 101817 | 26.7% |
| 75% | 132986 | 28.8% |
| 90% | 191372 | 29.9% |
| 95% | 233869 | 30.6% |
| 99% | 316957 | 31.6% |
| 5% Price Subsidy | | |
| 1% | 16956 | 22.1% |
| 5% | 27448 | 23.0% |
| 10% | 35423 | 23.4% |
| 25% | 52103 | 24.1% |
| 50% | 78290 | 24.9% |
| mean | 90519 | 24.8% |
| 75% | 115818 | 25.6% |
| 90% | 163838 | 26.3% |
| 95% | 198774 | 26.7% |
| 99% | 267156 | 27.5% |

-

| Table 17.M: Welfare Impact of Actual 2 | 2003-7 Price Rises - Mexico |
|--|-----------------------------|
| By Region | |

| By Region | | By Family Type | | | |
|------------------------------|----------------|------------------|------------------------------|----------------|------------------|
| Region | Pesos per Week | % of Expenditure | Family Type | Pesos per Week | % of Expenditure |
| No Government Action | | | No Government Action | | |
| | | | 1 | 142.47 | 13.2% |
| Guerrero | 94.19 | 8.7% | 2 | 158.36 | 13.1% |
| Hildalgo | 97.98 | 7.4% | 3 | 183.70 | 13.5% |
| Michoacan | 192.83 | 12.3% | 4 | 131.14 | 12.7% |
| Puebla | 183.82 | 14.3% | 5 | 143.60 | 12.4% |
| Queretaro | 129.61 | 9.5% | 6 | 163.48 | 12.9% |
| San Luis | 191.94 | 15.1% | 7 | 114.76 | 12.6% |
| Veracruz | 217.64 | 18.0% | 8 | 227.66 | 14.1% |
| | | | 9 | 238.96 | 13.8% |
| <u>50 Peso Cash Transfer</u> | | | <u>50 Peso Cash Transfer</u> | | |
| | | | 1 | 92.47 | 7.4% |
| Guerrero | 44.19 | 2.8% | 2 | 108.36 | 8.1% |
| Hildalgo | 47.98 | 2.5% | 3 | 133.70 | 9.2% |
| Michoacan | 142.83 | 8.1% | 4 | 81.14 | 6.2% |
| Puebla | 133.82 | 9.4% | 5 | 93.60 | 6.9% |
| Queretaro | 79.61 | 4.6% | 6 | 113.48 | 8.1% |
| San Luis | 141.94 | 10.4% | 7 | 64.76 | 5.6% |
| Veracruz | 167.64 | 14.2% | 8 | 177.66 | 10.4% |
| | | | 9 | 188.96 | 10.4% |
| 5% Price Subsidy | | | 5% Price Subsidy | | |
| | | | 1 | 83.25 | 8.1% |
| Guerrero | 33.15 | 3.6% | 2 | 92.50 | 7.9% |
| Hildalgo | 29.62 | 2.0% | 3 | 109.26 | 7.6% |
| Michoacan | 112.63 | 7.2% | 4 | 74.77 | 730.0% |
| Puebla | 115.08 | 9.2% | 5 | 81.23 | 7.3% |
| Queretaro | 59.40 | 4.4% | 6 | 94.54 | 7.8% |
| San Luis | 121.83 | 10.0% | 7 | 65.72 | 7.5% |
| Veracruz | 148.66 | 12.8% | 8 | 138.88 | 9.0% |
| | | | 9 | 143.56 | 8.7% |

Note: Family types are defined as follows: 1. Household, no children, headed by male; 2. Household, 2 or fewer children, headed by male; 3. Household, 3 or more children, headed by male; 4, 5, 6 - same as 1, 2 and 3 above but headed by female; 7. Pensioner Household (no children) 8. Household has more than 9 members 9. Household has more than 9 members, and number of children is more than 8

Table 17.C: Welfare Impact of Actual 2003-7 Price Rises - Colombia

By State

| No Governmer | t Action | | 10000 Peso Ca | sh Transfer | | 5% Price Subsid | dy | |
|---------------|----------|----------------|---------------|-------------|----------------|-----------------|----------|----------------|
| | Pesos | % | | Pesos | % | | Pesos | % |
| Region | per Week | of Expenditure | Region | per Week | of Expenditure | Region | per Week | of Expenditure |
| Antioquia | 105999 | 29.6% | Antioquia | 95999 | 26.1% | Antioquia | 85638 | 24.5% |
| Arauca | 140337 | 30.9% | Arauca | 130337 | 28.2% | Arauca | 114321 | 25.8% |
| Atlantico | 96391 | 29.6% | Atlantico | 86391 | 26.2% | Atlantico | 77752 | 24.5% |
| Bolivar | 97583 | 29.6% | Bolivar | 87583 | 26.1% | Bolivar | 78767 | 24.5% |
| Boyaca | 116962 | 30.1% | Boyaca | 106962 | 26.8% | Boyaca | 94776 | 24.9% |
| Casanare | 152479 | 30.6% | Casanare | 142479 | 27.9% | Casanare | 124010 | 25.5% |
| Cauca | 127418 | 30.1% | Cauca | 117418 | 27.2% | Cauca | 103215 | 25.0% |
| Cesar | 122907 | 30.0% | Cesar | 112907 | 27.0% | Cesar | 99479 | 24.9% |
| Choco | 137065 | 30.3% | Choco | 127065 | 27.5% | Choco | 111158 | 25.1% |
| Cordoba | 114026 | 30.3% | Cordoba | 104026 | 27.2% | Cordoba | 92471 | 25.2% |
| Cundinamarca | 105898 | 30.0% | Cundinamarca | 95898 | 26.3% | Cundinamarca | 85776 | 24.9% |
| Huila | 136918 | 30.5% | Huila | 126918 | 27.9% | Huila | 111134 | 25.4% |
| La Guajira | 133734 | 30.4% | La Guajira | 123734 | 27.8% | La Guajira | 108493 | 25.3% |
| Magdalena | 110980 | 30.0% | Magdalena | 100980 | 26.9% | Magdalena | 89814 | 24.9% |
| Nariyo | 97549 | 29.8% | Nariyo | 87549 | 26.0% | Nariyo | 78884 | 24.7% |
| Norte De Sant | 114505 | 30.1% | Norte De Sant | 104505 | 26.7% | Norte De Sant | 92843 | 25.0% |
| Quindio | 67903 | 29.1% | Quindio | 57903 | 24.1% | Quindio | 54609 | 24.0% |
| Risaralda | 99922 | 29.2% | Risaralda | 89922 | 25.6% | Risaralda | 80544 | 24.1% |
| Santander | 110900 | 29.8% | Santander | 100900 | 26.3% | Santander | 89765 | 24.7% |
| Sucre | 106062 | 30.0% | Sucre | 96062 | 26.7% | Sucre | 85853 | 24.9% |
| Tolima | 99517 | 30.0% | Tolima | 89517 | 26.5% | Tolima | 80543 | 24.9% |
| Valle | 102512 | 29.8% | Valle | 92512 | 26.2% | Valle | 82911 | 24.7% |

By Family Type

| | Pesos | % | | Pesos | % | | Pesos | % |
|-------------|----------|----------------|-------------|----------|----------------|-------------|----------|----------------|
| Family Type | per Week | of Expenditure | Family Type | per Week | of Expenditure | Family Type | per Week | of Expenditure |
| 1 | 89893 | 30.0% | 1 | 79893 | 26.2% | 1 | 72763 | 24.9% |
| 2 | 106224 | 30.1% | 2 | 96224 | 26.7% | 2 | 86078 | 25.0% |
| 3 | 117836 | 29.9% | 3 | 107836 | 26.8% | 3 | 95350 | 24.8% |
| 4 | 76177 | 30.2% | 4 | 66177 | 25.3% | 4 | 61799 | 25.1% |
| 5 | 93937 | 30.4% | 5 | 83937 | 26.2% | 5 | 76282 | 25.2% |
| 6 | 106481 | 30.1% | 6 | 96481 | 26.7% | 6 | 86299 | 25.0% |
| 7 | 83508 | 29.8% | 7 | 73508 | 25.3% | 7 | 67535 | 24.7% |
| 8 | 135738 | 29.3% | 8 | 125738 | 26.8% | 8 | 109388 | 24.2% |
| 9 | 143807 | 29.2% | 9 | 133807 | 26.6% | 9 | 115761 | 24.0% |

Note: Family types are defined as follows: 1. Household, no children, headed by male; 2. Household, 2 or fewer children, headed by male; 3. Household, 3 or more children, headed by male; 4, 5, 6 - same as 1, 2 and 3 above but headed by female; 7. Pensioner Household (no children) 8. Household has more than 9 members 9. Household has more than 9 members, and number of children is more than 8

| Table 18.M: Impact on Budget Shares of Actua | al |
|--|----|
| 2003-7 Price Rises - Mexico | |

| | Initial | New | |
|----------------------|---------|--------|--------|
| | Share | Share | Change |
| No Government Action | | | |
| Rice | 2.16% | 2.29% | 0.13% |
| Corn | 27.95% | 29.20% | 1.25% |
| Wheat | 3.60% | 3.02% | -0.58% |
| Pulses | 9.77% | 9.49% | -0.28% |
| Fruit and Veg | 14.31% | 14.43% | 0.12% |
| Meat and Dairy | 20.48% | 18.91% | -1.57% |
| Other Foods | 17.04% | 17.57% | 0.53% |
| Other Starches | 4.69% | 5.09% | 0.40% |
| 5% Price Subsidy | | | |
| entrine cubolay | | | |
| Rice | 2.16% | 2.26% | 0.10% |
| Corn | 27.95% | 28.83% | 0.88% |
| Wheat | 3.60% | 3.26% | -0.34% |
| Pulses | 9.77% | 9.22% | -0.55% |
| Fruit and Veg | 14.31% | 14.42% | 0.11% |
| Meat and Dairy | 20.48% | 19.64% | -0.84% |
| Other Foods | 17.04% | 17.20% | 0.16% |
| Other Starches | 4.69% | 5.17% | 0.48% |
| 50 Peso Transfer | | | |
| Dia | 0.400/ | 0.05% | 0.000/ |
| Rice | 2.16% | 2.25% | 0.09% |
| | 27.95% | 28.83% | 0.88% |
| vvneat | 3.60% | 3.28% | -0.32% |
| | 9.77% | 9.27% | -0.50% |
| Fruit and Veg | 14.31% | 14.41% | 0.10% |
| Meat and Dairy | 20.48% | 19.58% | -0.90% |
| Other Foods | 17.04% | 17.22% | 0.18% |
| Other Starches | 4.69% | 5.16% | 0.47% |

Table 18.C: Impact on Budget Shares of Actual 2003-7 Price Rises - Colombia

| Initial New | | | | | |
|----------------------|--------|--------|--------|--|--|
| | Share | Share | Change | | |
| No Government Action | | | | | |
| Rice | 10.61% | 9.71% | -0.90% | | |
| Corn | 3.39% | 3.59% | 0.20% | | |
| Wheat | 7.06% | 7.08% | 0.02% | | |
| Pulses | 3.77% | 4.46% | 0.69% | | |
| Fruit and Veg | 12.97% | 13.47% | 0.50% | | |
| Meat and Dairy | 32.29% | 27.31% | -4.98% | | |
| Other Foods | 18.77% | 20.27% | 1.50% | | |
| Other Starches | 11.14% | 14.11% | 2.97% | | |
| 5% Price Subsidy | | | | | |
| Rice | 10.61% | 9.56% | -1.05% | | |
| Corn | 3.39% | 3.61% | 0.22% | | |
| Wheat | 7.06% | 7.02% | -0.04% | | |
| Pulses | 3.77% | 4.38% | 0.61% | | |
| Fruit and Veg | 12.97% | 13.45% | 0.48% | | |
| Meat and Dairy | 32.29% | 28.25% | -4.04% | | |
| Other Foods | 18.77% | 20.15% | 1.38% | | |
| Other Starches | 11.14% | 13.58% | 2.44% | | |
| 10000 Peso Transfer | | | | | |
| Rice | 10.61% | 9.97% | -0.64% | | |
| Corn | 3.39% | 3.52% | 0.13% | | |
| Wheat | 7.06% | 7.59% | 0.53% | | |
| Pulses | 3.77% | 4.05% | 0.28% | | |
| Fruit and Veg | 12.97% | 13.13% | 0.16% | | |
| Veat and Dairy | 32.29% | 28.04% | -4.25% | | |
| Other Foods | 18.77% | 19.60% | 0.83% | | |
| Other Starches | 11.14% | 14.10% | 2.96% | | |

| Table 19.M: Welfare In V | Table 19 | | |
|-----------------------------|----------------|------------------|----------------|
| Percentiles | Pesos per Week | % of Expenditure | Pe |
| <u>No Government Action</u> | - | · | <u>No Gove</u> |
| 1% | 47.47 | 11.4% | |
| 5% | 67.95 | 12.1% | |
| 10% | 84.04 | 12.6% | |
| 25% | 117.70 | 13.4% | |
| 50% | 167.11 | 14.3% | |
| mean | 187.11 | 14.3% | |
| 75% | 233.60 | 15.2% | |
| 90% | 315.62 | 16.0% | |
| 95% | 376.02 | 16.5% | |
| 99% | 510.35 | 17.5% | |
| 50 Peso Cash Transfer | | | <u>50 Peso</u> |
| 1% | -2.53 | -0.8% | |
| 5% | 17.95 | 3.9% | |
| 10% | 34.04 | 5.9% | |
| 25% | 67.70 | 8.2% | |
| 50% | 117.11 | 10.0% | |
| mean | 137.11 | 9.5% | |
| 75% | 183.60 | 11.5% | |
| 90% | 265.62 | 12.6% | |
| 95% | 326.02 | 13.2% | |
| 99% | 460.35 | 14.2% | |
| 5% Price Subsidy | | | <u>5% Pr</u> |
| 1% | 40.92 | 9.9% | |
| 5% | 58.57 | 10.5% | |
| 10% | 72.44 | 10.9% | |
| 25% | 101.44 | 11.6% | |
| 50% | 144.02 | 12.4% | |
| mean | 161.25 | 12.4% | |
| 75% | 201.33 | 13.2% | |
| 90% | 271.97 | 13.9% | |
| 95% | 324.03 | 14.4% | |
| 99% | 439.79 | 15.2% | |

Table 19.C: Welfare Impact of 50% Rise in Rice, Corn and Wheat - Colombia

| Percentiles | Pesos per Week | % of Expenditure |
|------------------------------|----------------|------------------|
| No Government Action | | |
| 1% | 7577 | 6.3% |
| 5% | 10471 | 7.0% |
| 10% | 12718 | 7.3% |
| 25% | 17333 | 7.9% |
| 50% | 24170 | 8.6% |
| mean | 27457 | 8.6% |
| 75% | 34016 | 9.3% |
| 90% | 46862 | 10.0% |
| 95% | 56289 | 10.4% |
| 99% | 73986 | 11.5% |
| <u>50 Peso Cash Transfer</u> | | |
| 1% | -2423 | -3.7% |
| 5% | 471 | 0.4% |
| 10% | 2718 | 2.0% |
| 25% | 7333 | 3.7% |
| 50% | 14170 | 4.9% |
| mean | 17457 | 4.6% |
| 75% | 24016 | 5.9% |
| 90% | 36862 | 6.8% |
| 95% | 46289 | 7.4% |
| 99% | 63986 | 8.3% |
| 5% Price Subsidy | | |
| 1% | 6613 | 5.5% |
| 5% | 9126 | 6.1% |
| 10% | 11081 | 6.4% |
| 25% | 15093 | 6.9% |
| 50% | 21023 | 7.5% |
| mean | 23873 | 7.5% |
| 75% | 29570 | 8.1% |
| 90% | 40708 | 8.7% |
| 95% | 48886 | 9.1% |
| 99% | 64182 | 10.1% |

Table 20.M: Welfare Impact of 50% Price Rise in Rice, Corn and Wheat - Mexico

| Βv | Region |
|----|--------|
| UУ | Region |

| Region | Pesos per Week | % of Expenditure |
|------------------------------|----------------|------------------|
| No Government Action | | |
| | | |
| Guerrero | 181.60 | 15.2% |
| Hildalgo | 191.44 | 14.2% |
| Michoacan | 218.57 | 14.4% |
| Puebla | 177.96 | 13.9% |
| Queretaro | 195.33 | 14.3% |
| San Luis | 181.11 | 14.0% |
| Veracruz | 177.46 | 14.3% |
| | | |
| | | |
| <u>50 Peso Cash Transfer</u> | | |
| Guerrore | 121 60 | 0.7% |
| Hildalao | 131.00 | 9.1% |
| Michoacan | 141.44 | 9.0% 10.2% |
| Puchla | 127 06 | Q 0% |
| Oueretaro | 145 33 | 9.0% |
| San Luis | 131 11 | 9.7% |
| Veracruz | 127.46 | 9.3% |
| VCIUCIUZ | 127.40 | 0.070 |
| | | |
| <u>5% Price Subsidy</u> | | |
| - | | |
| Guerrero | 156.45 | 13.2% |
| Hildalgo | 164.99 | 12.4% |
| Michoacan | 188.35 | 12.6% |
| Puebla | 153.38 | 12.1% |
| Queretaro | 168.33 | 12.5% |
| San Luis | 156.09 | 12.2% |
| Veracruz | 152.93 | 12.4% |

| By Family Type | | |
|--------------------------|------------------|------------------|
| Family Type | Pesos per Week | % of Expenditure |
| No Government Action | | |
| 1 | 143.43 | 13.2% |
| 2 | 168.82 | 13.8% |
| 3 | 204.46 | 14.7% |
| 4 | 133.89 | 13.0% |
| 5 | 157.92 | 13.7% |
| 6 | 189.41 | 14.7% |
| 7 | 118.53 | 13.1% |
| 8 | 255.55 | 15.5% |
| 9 | 287.63 | 16.1% |
| 50 Peso Cash Transfer | | |
| 1 | 93 43 | 7.3% |
| 2 | 118.82 | 8.9% |
| - 3 | 154.46 | 10.5% |
| 4 | 83.89 | 6.4% |
| 5 | 107.92 | 8.2% |
| 6 | 139.41 | 9.9% |
| 7 | 68.53 | 6.0% |
| 8 | 205.55 | 11.8% |
| 9 | 237.63 | 12.8% |
| | | |
| <u>3 % FIICE Subsidy</u> | 100.67 | 11 50/ |
| 1 | 145 52 | 12.0% |
| 2 | 140.02 | 12.0% |
| 3 | 115.19 | 12.0% |
| 4 | 170.40 | 11.3% |
| 5 | 100.10 | 10.970 |
| 0 7 | 103.02 | 12.070 |
| / 0 | 102.20 | 11.470 |
| Ö | 220.14 247.71 | 13.3% |
| 9 | 247.71 | 14.0% |

| Table 20.C: Welfare Im | pact of 50% Rise i | n Price of Rice | , Corn and Wheat | - Colombia |
|------------------------|--------------------|-----------------|------------------|------------|
|------------------------|--------------------|-----------------|------------------|------------|

No Government Action

10000 Peso Cash Transfer

5% Price Subsidy

| By State | | | | | | | | |
|---------------|----------|----------------|---------------|----------|----------------|---------------|----------|----------------|
| | Pesos | % | | Pesos | % | | Pesos | % |
| Region | per Week | of Expenditure | Region | per Week | of Expenditure | Region | per Week | of Expenditure |
| Antioquia | 26217 | 8.5% | Antioquia | 16217 | 4.2% | Antioquia | 22811 | 7.4% |
| Arauca | 29907 | 7.7% | Arauca | 19907 | 4.3% | Arauca | 26017 | 6.7% |
| Atlantico | 26441 | 9.2% | Atlantico | 16441 | 5.1% | Atlantico | 22969 | 8.1% |
| Bolivar | 26391 | 9.2% | Bolivar | 16391 | 4.9% | Bolivar | 22943 | 8.1% |
| Boyaca | 28801 | 8.7% | Boyaca | 18801 | 4.7% | Boyaca | 25023 | 7.6% |
| Casanare | 33728 | 8.0% | Casanare | 23728 | 4.5% | Casanare | 29332 | 7.0% |
| Cauca | 30260 | 8.4% | Cauca | 20260 | 4.8% | Cauca | 26315 | 7.3% |
| Cesar | 30820 | 8.7% | Cesar | 20820 | 5.0% | Cesar | 26793 | 7.6% |
| Choco | 31558 | 8.2% | Choco | 21558 | 4.8% | Choco | 27459 | 7.2% |
| Cordoba | 27698 | 8.6% | Cordoba | 17698 | 4.7% | Cordoba | 24085 | 7.5% |
| Cundinamarca | 26927 | 9.0% | Cundinamarca | 16927 | 4.6% | Cundinamarca | 23389 | 7.9% |
| Huila | 29331 | 7.6% | Huila | 19331 | 4.4% | Huila | 25519 | 6.7% |
| La Guajira | 36201 | 9.3% | La Guajira | 26201 | 6.1% | La Guajira | 31448 | 8.2% |
| Magdalena | 27754 | 8.7% | Magdalena | 17754 | 4.8% | Magdalena | 24140 | 7.6% |
| Nariyo | 22823 | 8.4% | Nariyo | 12823 | 3.7% | Nariyo | 19844 | 7.4% |
| Norte De Sant | 26595 | 8.2% | Norte De Sant | 16595 | 4.1% | Norte De Sant | 23125 | 7.2% |
| Quindio | 17687 | 8.8% | Quindio | 7687 | 2.7% | Quindio | 15394 | 7.7% |
| Risaralda | 20916 | 7.2% | Risaralda | 10916 | 2.7% | Risaralda | 18238 | 6.3% |
| Santander | 28380 | 9.0% | Santander | 18380 | 4.6% | Santander | 24657 | 7.9% |
| Sucre | 27264 | 8.9% | Sucre | 17264 | 4.8% | Sucre | 23694 | 7.8% |
| Tolima | 23271 | 8.2% | Tolima | 13271 | 3.8% | Tolima | 20241 | 7.2% |
| Valle | 24519 | 8.4% | Valle | 14519 | 4.0% | Valle | 21331 | 7.3% |

By Family Type

| | Pesos | % | | Pesos | % |
|-------------|----------|----------------|-------------|----------|----------------|
| Family Type | per Week | of Expenditure | Family Type | per Week | of Expenditure |
| 1 | 20454 | 8.1% | 1 | 10454 | 3.4% |
| 2 | 24211 | 8.1% | 2 | 14211 | 3.9% |
| 3 | 29166 | 8.7% | 3 | 19166 | 4.9% |
| 4 | 17950 | 8.5% | 4 | 7950 | 2.3% |
| 5 | 22187 | 8.6% | 5 | 12187 | 3.4% |
| 6 | 27250 | 9.0% | 6 | 17250 | 4.8% |
| 7 | 19396 | 8.3% | 7 | 9396 | 2.6% |
| 8 | 38444 | 9.5% | 8 | 28444 | 6.5% |
| 9 | 42667 | 9.9% | 9 | 32667 | 6.8% |

| | Pesos | % |
|-------------|----------|----------------|
| Family Type | per Week | of Expenditure |
| 1 | 17803 | 7.1% |
| 2 | 21062 | 7.1% |
| 3 | 25355 | 7.6% |
| 4 | 15268 | 7.4% |
| 5 | 19304 | 7.5% |
| 6 | 13691 | 7.9% |
| 7 | 16885 | 7.3% |
| 8 | 33385 | 8.3% |
| 9 | 37042 | 8.7% |

Table 21.M: Impact on Budget Shares of 50% Rise in Rice, Corn and Wheat Prices - Mexico

| | Initial | New | |
|----------------------|---------|--------|--------|
| | Share | Share | Change |
| No Government Action | | | |
| Rice | 2.16% | 2.31% | 0.15% |
| Corn | 27.95% | 30.60% | 2.65% |
| Wheat | 3.60% | 3.41% | -0.19% |
| Pulses | 9.77% | 8.97% | -0.80% |
| Fruit and Veg | 14.31% | 14.88% | 0.57% |
| Meat and Dairy | 20.48% | 18.88% | -1.60% |
| Other Foods | 17.04% | 15.81% | -1.23% |
| Other Starches | 4.69% | 5.14% | 0.45% |
| 50 Peso Transfer | | | |
| Rice | 2.16% | 2.28% | 0.12% |
| Corn | 27.95% | 30.23% | 2.28% |
| Wheat | 3.60% | 3.68% | 0.08% |
| Pulses | 9.77% | 8.74% | -1.03% |
| Fruit and Veg | 14.31% | 14.87% | 0.56% |
| Meat and Dairy | 20.48% | 19.55% | -0.93% |
| Other Foods | 17.04% | 15.46% | -1.58% |
| Other Starches | 4.69% | 5.19% | 0.50% |
| 5% Price Subsidy | | | |
| Rice | 2.16% | 2.29% | 0.13% |
| Corn | 27.95% | 30.27% | 2.32% |
| Wheat | 3.60% | 3.44% | -0.16% |
| Pulses | 9.77% | 9.06% | -0.71% |
| Fruit and Veg | 14.31% | 14.81% | 0.50% |
| Meat and Dairy | 20.48% | 19.09% | -1.39% |
| Other Foods | 17.04% | 15.96% | -1.08% |
| Other Starches | 4.69% | 5.08% | 0.39% |
| | | | |

Table 21.C: Impact on Budget Shares of 50% Rise in Rice,Corn and Wheat Prices - Colombia

| Initial | INEW | |
|---------|---|--|
| Share | Share | Change |
| | | |
| | | |
| 10.61% | 9.29% | -1.32% |
| 3.39% | 4.35% | 0.96% |
| 7.06% | 7.13% | 0.07% |
| 3.77% | 6.72% | 2.95% |
| 12.97% | 12.76% | -0.21% |
| 32.29% | 28.79% | -3.50% |
| 18.77% | 18.14% | -0.63% |
| 11.14% | 12.82% | 1.68% |
| | | |
| | | |
| 10.61% | 9.55% | -1.06% |
| 3.39% | 4.29% | 0.90% |
| 7.06% | 7.63% | 0.57% |
| 3.77% | 6.32% | 2.55% |
| 12.97% | 12.43% | -0.54% |
| 32.29% | 29.52% | -2.77% |
| 18.77% | 17.47% | -1.30% |
| 11.14% | 12.79% | 1.65% |
| | | |
| | | |
| 10.61% | 9.46% | -1.15% |
| 3.39% | 4.23% | 0.84% |
| 7.06% | 7.12% | 0.06% |
| 3.77% | 6.34% | 2.57% |
| 12.97% | 12.79% | -0.18% |
| 32.29% | 29.24% | -3.05% |
| 18.77% | 18.21% | -0.56% |
| 11.14% | 12.61% | 1.47% |
| | 10.61% 3.39% 7.06% 3.77% 12.97% 32.29% 18.77% 11.14% 10.61% 3.39% 7.06% 3.77% 12.97% 32.29% 18.77% 12.97% 32.29% 18.77% 11.14% 10.61% 3.39% 7.06% 3.77% 12.97% 32.29% 18.77% 12.97% 32.29% 18.77% 12.97% 32.29% 18.77% 11.14% | Initial New Share Share 10.61% 9.29% 3.39% 4.35% 7.06% 7.13% 3.77% 6.72% 12.97% 12.76% 32.29% 28.79% 18.77% 18.14% 11.14% 12.82% 10.61% 9.55% 3.39% 4.29% 7.06% 7.63% 3.77% 6.32% 12.97% 12.43% 32.29% 29.52% 18.77% 17.47% 11.14% 12.79% 10.61% 9.46% 3.39% 4.23% 7.06% 7.12% 3.77% 6.34% 12.97% 12.79% 32.29% 29.24% 18.77% 18.21% 11.14% 12.61% |









Figure 7.M – Mexico Welfare impacts of actual 2003-2007 price increases and policy changes



Notes: Curves are generated with a kernel-weighted local mean smoother, using a bandwidth of 0.8 and 100 grid points.

Figure 8.M – Mexico Welfare impacts of 50% increase in the prices of rice, corn and wheat and policy changes



Notes: Curves are generated with a kernel-weighted local mean smoother, using a bandwidth of 0.8 and 100 grid points.

Figure 7.C – Colombia Welfare impacts of actual 2003-2007 price increases and policy changes



Curves are generated with a kernel-weighted local mean smoother, with a bandwidth of 0.8 and 100 grid points.



Figure 8.C – Colombia