Food Aid: A Substitute for Domestic Production and Commercial Imports?

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A poor man’s flesh may produce abundant food, but injustice sweeps it away [Proverbs 13:33]

With widening food deficits in many developing countries, and growing surpluses in their developed counterparts, it is not surprising that food aid continues to be a popular form of assistance. While not questioning the humanitarian motives of this aid, resources for additional consumption may not be achieved where there is significant substitution for domestic production and displacement of commercial imports. Different aspects of these substitutions are discussed using theoretical models of food aid from both the donor and recipient perspectives. Empirical evidence from previous studies is provided to illustrate a variety of negative and positive impacts from food aid. The US Export Enhancement Program is employed to identify some of the losers and winners that arise from newer versions of food aid.

1. Introduction

The United Nation’s Food and Agriculture Organisation (FAO) has repeatedly warned of catastrophic shortages of food in the 1990s. One estimate by the World Bank suggests that more than 500 million men, women and children are reported to suffer from chronic malnutrition and hunger-related diseases, with deaths numbering some 40 million each year (Drezner and Sen, 1989: 36). Naturally, with this human suffering comes pressure for additional food resources from developed nations, which have found it hard to look beyond growing commodity stockpiles in their search for an appropriate response. There would seem nothing simpler than sharing the surplus.

In 1991, world stocks of wheat were approaching 130 million tonnes, which is around 20 per cent of usage (ABARE 1993: 100). At the same time, over thirteen million tonnes of grain equivalents of food aid were delivered under the World Food Program (WFP). While it is not the purpose of this paper to question the humanitarian motives of this assistance, there has long been concern that the transfer of such considerable volumes of commodity could not be without side effects. Of primary concern, is the likelihood that instead of providing resource for additional consumption, this assistance could actually become a substitute for domestic production and commercial imports. The sheer weight of this concern has been sufficient for many economists to recommend less or no non-emergency aid, even in cases of severe nutritional shortages (Sinn and Singer 1977: 205). Whilst this is an extreme position, it does illustrate the controversy surrounding this aid, and raises the question of deficiencies in its theoretical and operational structure (Schultz 1989: 149-150).

The main purpose of this paper is to examine the question of substitution of food aid for domestic production and commercial imports. After a brief profile of current levels of food aid, the theoretical
foundations for this question are examined from the perspectives of a developed country and a recipient nation. The relationships illustrated are expanded to take into account impacts of food aid on price incentives, input markets, infrastructure and the macroeconomic environment. Following this, an overview of some empirical evidence is examined prior to conclusion. These theoretical relationships are then reconsidered in the light of empirical studies and observations on a new version of food aid.

2. Bounds Of Benevolence

The motivation for food aid has always been open to question, which could perhaps explain the turbulent history of its delivery. However, the political attractiveness of food has ensured that it remains high on the agenda of operational resources chosen to aid developing countries. Primarily from the US, food is distributed to diverse countries in Sub-Saharan Africa, Asia and the Pacific, and North Africa and the Middle East. Food aid is not a homogenous product, but comes in three readily distinguishable forms. According to Deardon and Ackroyd, these categories can be defined as follows (1989: 218):

1. Emergency food aid. Classically this is distributed free to destitute people facing a temporary food shortfall as a result of natural or man-made disaster.

2. Project food aid. This is assistance that is either targeted (by free or subsidised distribution or food for work) to particular consumers, or it is used to promote investment in physical capital (for example, public works construction) or human capital (for example, special feeding programs for infants, mothers or schoolchildren). This is typically negotiated on a multi-year basis for specific activities.

3. Non-project (or program) food aid. In its simplest form this food is provided without conditions, and substitutes or supplements regular commercial food imports. Normally this is delivered through usual market channels, rather than targeting particular consumer groups. This is typically longer term assistance for countries in continual food deficit.

The emergency category of aid is predominantly short term in nature and is generally not subject to the same criticism as the latter two, which are seen to have longer term structural impacts on the recipient. There is little doubt that crisis food aid has resulted in the saving of millions of lives, even in cases were food shortages were not the primary cause of starvation (see, for example, Locke and Ahmadi-Esfahani 1993: 372). In practice, however, most food aid is delivered in project or program forms (Fitzpatrick and Storey 1989: 241).

After declining in the early 1970s, food aid recovered strongly in volume and value terms at around 15 per cent of net Overseas Development Assistance (ODA) (Maxwell and Singer 1979: 225). After short dips in this value in the early 1980s, the value of food aid was down to 5.8 per cent of ODA in 1990 (WFP 1992, Table 19). Over 90 per cent of this aid is cereals, the majority being non-project aid (WFP 1992, Table 12). The breakdown of this aid appears in Table 1.

<table>
<thead>
<tr>
<th>Recipient Region</th>
<th>Total (000s)</th>
<th>Non-project (%)</th>
<th>Emergency (%)</th>
<th>Project (%)</th>
<th>Total (000s)</th>
<th>Non-project (%)</th>
<th>Emergency (%)</th>
<th>Project (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sub-Saharan Africa</td>
<td>4024.4</td>
<td>27.2</td>
<td>14.9</td>
<td>419.3</td>
<td>19.7</td>
<td>30.7</td>
<td>22.6</td>
<td></td>
</tr>
<tr>
<td>Asia &amp; Pacific</td>
<td>1977.3</td>
<td>27.7</td>
<td>24.8</td>
<td>54.5</td>
<td>26.2</td>
<td>15.6</td>
<td>5.6</td>
<td></td>
</tr>
<tr>
<td>Latin America &amp; Caribbean</td>
<td>1555.4</td>
<td>72.2</td>
<td>26</td>
<td>26.2</td>
<td>7.9</td>
<td>5.6</td>
<td>46.6</td>
<td></td>
</tr>
<tr>
<td>North Africa &amp; Middle East</td>
<td>1215.1</td>
<td>81.1</td>
<td>34.2</td>
<td>25.8</td>
<td>34</td>
<td>40.2</td>
<td>25.3</td>
<td></td>
</tr>
<tr>
<td>East Europe &amp; former USSR</td>
<td>990.4</td>
<td>99.7</td>
<td>1.3</td>
<td>0</td>
<td>95.5</td>
<td>4.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>World Total</td>
<td>13155</td>
<td>50.8</td>
<td>24.6</td>
<td>21.6</td>
<td>1171.2</td>
<td>33.3</td>
<td>36</td>
<td>30.7</td>
</tr>
</tbody>
</table>

SOURCE - WFP 1992, Table 12

Most of this aid comes from the US (51 per cent), the WFP (22.3 per cent), and the European Community (16 per cent), with smaller donations from Canada (4.8 per cent), Australia (0.6 per cent), non-government organisations (0.5 per cent) and other multilateral agencies (2 per cent). The WFP aid comes from contributions from member countries, again predominantly US, then European Community donors (WFP 1992, Tables 7 and 10).

The table indicates that Sub-Saharan Africa is unique in that it is the only recipient of cereal aid where the emergency category dominates. This reflects the severity of the food problems being experienced in this region. Of the many attempts made to project future food aid requirements, the common conclusion is that the basic food shortages of Sub-Saharan African low income food deficit countries will widen, even if they adopt vigorous agricultural policy reform (Deardon and Ackroyd 1989: 222 and Owusu 1989: 207-213). Even though the avenues through which these countries achieved this growing aid dependence are varied (for example, compare Nepal in Khatta 1989: 156 with Somalia in Farzin 1991: 262), it would seem that the problems of food deficits, and the response of food aid, will continue into the future. This being the case, insights into long-term repercussions of food aid become essential to sound policy formulation.
3. Theoretical Perspectives

The actors in the stage of food aid are not simple ones. Donors, whilst favourable to philanthropy, are not singularly motivated. Recipients, whilst suffering shortages, may not be accepting the gifts simply to obtain food. Consumers, whilst feeling hunger, may not see the gifts as homogenous as their providers, and politicians, whilst claiming their actions are constrained by lack of food, may be trying to use food aid to perpetuate lack of action. Into this complexity, it becomes difficult to establish motives and determine the success of meeting objectives. In this section, some of the theoretical observations on these actions are made: firstly, looking from the perspective of a donor, and secondly from the viewpoint of a recipient. In order that we focus on the issue of substitution, not all the pros and cons of food aid, which have already been sufficiently expounded in the literature, will be reiterated here.¹

The origins of the current world food aid programs are often traced back to the desire to remove unwanted surpluses. The US was pre-eminent here with its 1954 PL-480 surplus disposal program, which later had its name changed to the “less honest” as Sanger termed it; title of “food for peace” (1988: 80). Virtue aside, surplus disposal has been prominent in international trade for many years, as whilst there are humane reasons for responding to ‘hunger’, there are also two key commercial motivations. The first is to enhance market share, in that disposal of surpluses will undercut competitors and allow the supplier to capture a larger slice of the market. Whilst it could be argued that this is actually an issue of increasing the size of the market, as the countries were previously excluded from this arena by virtue of their low incomes, there is a possibility of enhancing future shares through import dependence and bilateral concessions. The second commercial motivation is that aid provides a special export outlet for surplus domestic production which would have otherwise depressed domestic and international prices and provided a burden on storage facilities. Assuming a price elastic demand for food, the donor will be able to more than compensate for the cost of aid, implying that food aid, in effect, constitutes a demand inducing scheme for international surplus production.

The way domestic support and delivery of aid can be achieved simultaneously, can be seen in Figure 1 (based on Houck 1986, Figure 10.7). The left hand side represents the domestic market for a particular grain in the donor country, which is a net exporter, given by the excess supply curve (ES) in the international market on the right. The excess demand curve is that of either the recipient, or the rest of the world.

The donor government’s commitment to provide non-commercial shipments of food aid is analogous to a shift in the quantity that is demanded within the donor country, as it is purchased domestically. The hatched area represents the cost of the government’s purchases. In the international market, the excess supply is reduced (shifts up to ES*), causing an increase in world price from p1 to p2. As a result of this price rise domestic consumption falls from c to d, production increases from a to b, and exports expand from e to d, with de going to the aid recipient. From this analysis, two observations emerge: firstly, the gain in price depends on the slope or elasticity of the ES and ED curves in the international market. The greater the exporter’s ability to influence the world price, the steeper the ED curve, and hence the greater the change in price. Secondly, the analysis assumes that the ED curve does not shift in response to the supply of aid.

If commercial displacement does occur, the ED curve will shift down, mitigating the price rise. Maxwell (1986b: 7) argues that the commercial displacement can occur through four different avenues. Firstly, a government marketing board which has a fixed demand will necessarily buy less; secondly, marketing organisation inputs which are fixed; thirdly, through displacement of private sector food imports by public sector food aid, and finally, via incentives on domestic production. In the event of aid substituting for commercial imports donors may no longer achieve their domestic policy goals, although they may be providing development assistance by relieving constraints on foreign exchange. It is perhaps for this reason, that many researchers single out conflicting objectives as one of the major problems associated with food aid (Fitzpatrick and Storey 1989: 243).

Looking next to the theoretical insights into recipient impacts of food aid, we continue to follow Houck who suggests “what is done with the quantity of aid is another story with its own economic and political consequences in the recipient nation” (1986: 103). This other story is the one most often told by critics of food aid programs, and tells of displacement of production through price incentives, input markets, infrastructure and the macroeconomic environment. Looking firstly at the price effect, this can be explained in terms of the analogies that are drawn between aid and a sophisticated form of dumping or a bumper harvest (Sen 1960: 1032, Maxwell 1986b, Schultz

1987, and Deardon and Ackroyd 1989) using a similar diagram to Figure 1, Figure 2 represents the situation of a net importer recipient nation, with their domestic market shown on the left.

![Diagram](image)

**Fig 2.-Impact of Food Aid on Recipient Nation**

Under these circumstances, the arrival of aid is equivalent to a large increase in excess supply in the international market. Domestic prices fall from p1 to p2, consumption increases from c to d, and domestic supply falls from b to a. The volume of food shipped into the country, including aid, increases from bc to ad. It is assumed in the above diagram that the arrival of aid does not alter the domestic demand curve. However, many authors would argue that because food aid implicitly targets the poor or those with a higher marginal propensity to consume out of new income, then arrival of aid will cause this demand curve to shift out in an income effect (in Deardon and Ackroyd 1989: 226; Isenman and Singer 1977: 209-211, and Fitzpatrick and Storey 1989: 243-244). If this is the case, the price depression would be somewhat mitigated. As a counterargument to this, dumping of non-traditional foods could lead to a change in tastes away from historical consumption patterns, which would appear as an expansion of the demand curve abcd, and again a depression of producer prices (Maxwell 1986: 6, Fitzpatrick and Storey 1989: 241). Although these are not problems in themselves, they may become so when they encourage import dependence.

Of primary concern in the above situation is the degree to which this price change alters domestic production. This can be seen as being related to the proposition that the more inelastic (steeper) the supply curve, the less price responsive the producers are and hence the greater the drop in production. Reported measurements of the inelasticity of supply, the percentage change in output in response to a percentage change in price, are consistently low around 0.2, indicating that the price decline would have little influence on production. Whilst the World Bank argues quite correctly, that this figure is higher in the long run, the estimates still reflect a low degree of price responsiveness among producers (Fitzpatrick and Storey 1989: 245-246). Khadka (1989: 162) argues that the elasticity of small farmers who are using to provide food for their families will always be low, especially one would suppose, for downward movements in price, thus explaining the low or zero estimates from more aggregate figures. Isenman and Singer (1977: 210) argue that this low estimate is a result of relatively inelastic supply of land and consequent diminishing returns to other inputs. However, the most likely reason for this low magnitude of elasticity is the fact that prices in these countries are often administered and do not reflect the interplay of supply and demand, especially in the short run (Singer 1988: 81, and Sen 1980: 1034). More importantly, structural rigidities such as limited resources, poor climate, soil erosion, drought, and social and economic structures mitigate higher supply response from risk-averse farmers.

Aside from direct price effects, food aid can affect the supply curve through disruption of the input markets. Proponents would argue that food aid can act as budgetary support to free resources to purchase imports of intermediates such as fertiliser; however, negative impacts on inputs, which would cause a shift up in the supply curve in Figure 2, are possible. Although food aid can potentially influence the capital market in an inflationary manner, and the land market by moving productive land to non-food production which may have higher risks, it is perhaps labour markets which have received the greatest attention (Deardon and Ackroyd 1989: 225). Projects may compete with local agricultural production for labour, bidding up wages and reducing agricultural employment and output (Maxwell 1986: 6). This competition is not only as it induces labour to move to projects, but encourages workers not to work, and farmers to leave food production and move into food for work projects (Fitzpatrick et al 1989: 241). The counterargument to this is that the displacement of labour does not occur in practice due to the fixity of human capital, and that even if this does occur, the displacement will be minimised by the high levels of disguised unemployment (see, for example, Khadka 1989: 162).

Production is also strongly influenced by the infrastructure of the country, which is determined primarily by the policy environment. Many authors have speculated that food aid encourages governments to neglect agriculture by acting as a policy disincentive (Maxwell 1986: 6, Fitzpatrick and Storey 1989: 241 and Farzin 1991: 262). As Bardhan notes, the quality of government intervention differs from state to state, so it is difficult to ascribe inactivity in policy to food aid alone (1990: 4). In an a priori sense, there would seem no justification for assuming that food aid cannot be just as easily used to support a bias against agriculture as one in its favour (Isenman and Singer 1977: 213-215). However, given the widespread evidence of urban bias in developing countries, and the prevalence of weak governments, food aid could potentially be responsible for reducing long-run production through this avenue.

A final way that food aid can influence domestic supply is through macroeconomic linkages, principally through the exchange rate and inflation. Counterpart funds that are generated from the sale of food aid can lead to adverse inflationary effects as a result of expansionary and indiscriminate fiscal policies (Farzin 1991: 269). Under this scenario, food aid effectively becomes new money supply, and inflation erodes real prices received by producers. Alternatively, food aid can help a government support an overvalued exchange rate, itself implicitly taxing agriculture (by shifting the ES(+) curve in Figure 2 right) stimulating imports and further lowering domestic prices resulting in...
Thus, the theoretical analysis, both from the perspective of the donor and recipient, lends itself to hypothesis that substitution for both domestic production and commercial imports is quite likely. The next section examines some of the empirical evidence that has been obtained to test this hypothesis.

4. Empirical Observations

Since T.W. Schultz first raised these concerns in 1960, there has been a continual appeal for more empirical research into the problem. As Maxwell (1968b: 21) notes, there is a traditional dichotomy between empirical and checklist analysis, with many analysts preferring the latter due to the problems inherent in applying econometrics to less developed countries. Due to some of the independent variables affecting food production and consumption which affect one another over time, many researchers have recommended the most appropriate form of estimation is through a multi-equation econometric model. This estimation was first carried out by Mann (1967), and later with modification by Rogers, Srivastava and Heady in 1972, on food aid to India.

The use of this approach is fraught with difficulties. The first and most obvious problem relates to data, or more accurately the lack of reliable data. In economics where pastoralism is important and where much of agriculture is non-monetised (Thornton 1988: 209; Isenman and Singer 1977: 220), often the length of time series may be insufficient to allow specification of appropriate regressions and simpler forms have to be chosen (as in Maxwell 1968b). Even when data are available, changes in government policies or in technology may render conclusions from the past data useless. Given these limitations, it is almost impossible to isolate the impact of food aid from various factors which result in the food aid being delivered, such as drought, refugees, and government intervention in the price mechanism (Thornton 1988: 209; Khadka 1989: 164). There is also much debate over which variables should be included in the model. For example, Maxwell (1968b) argues that, ideally, price impact should be measured as deviations from optimal prices, as just focusing on lower prices ignores the beneficial impacts that might arise from suppressing inflation.

Looking first at the issue of depression of production, as was indicated previously, production is believed to be rather unresponsive to prices in lessdeveloped countries. The more ad hoc studies of Khadka in Nepal (1989), and Maxwell in Senegal (1968a) and Ethiopia (1968c) have produced little evidence of price disincentives happening in these countries. Khadka (1989: 164) claimed that her analysis was limited by ignoring state intervention and cross-border trade with India. Mann (1967) found that the decline in production as a result of food aid was around 33 per cent. and therefore only two-thirds of this aid was an additional. The analysis by Rogers et al. (1972) included an equation which allowed for government intervention in pricing through "the price subsidy", which offered subsidised returns to producers, and cut Mann's estimate of the production disincentive in India to around 10 per cent. Subsequent similar studies (see, for example, Isenman and Singer 1977) were supportive of these earlier findings. If we take the model with market differentiation to be more accurate, we can conclude that the production impact is low, at least for India. However, given the positive nature of India's agricultural planning and their firm stance when food aid was first introduced, it is possible to speculate that in other countries the disincentive effect may be much higher.

More recent studies undertaken formally by Hall (1980) and Bezuneh, Deaton, and Norton (1988), however, are more positive. The former suggests that Brazil's wheat production tripled over the period 1952-71 as a result of revenues gained from PL480 wheat imports (Hall 1980: 27). The latter study looks at the impact of food for work in Kenya and finds that food aid increased agricultural production, income, capital investment, employment and marketable surplus (Bezuneh et al. 1988: 190).

On the other hand, Farzin (1991: 266-267) has argued informally that food aid resulted in the fixity of domestic prices below free market levels in Somalia and was significant in altering consumption habits in a way not directly attributable to income effects. This is in contrast to the earlier findings by an informal analysis of Senegal, where Maxwell found no evidence of labour or policy disincentives (1986a: 15.17). Again this is inconsistent with Farzin (1991: 274) who found significant evidence of undisciplined policy as a result of food aid receipts. Due to the casual nature of these analyses, inter-country differences, and the subjective nature of observations, it is impossible to determine the source of many of these conflicts. However, it may be argued that changes in prices and/or consumption habits depend heavily on both the volume of food aid and its resulting real income effect.

Looking now at the issue of substitution for commercial imports, empirical evidence is very thin. There is certainly scope for leakage of aid back into the market, with Thomson (1958: 216) suggesting that 25-30 per cent of Somalia's food aid earmarked for refugee camps ends up here via corruption and reselling. Deardon and Ackroyd (1989: 223) argue that over half of all food aid displaces commercial imports. However, others are less confident of this. From Mann's 1967 results for India (p140), it can be concluded that food aid does have a negative impact on imports, but that this is only marginally significant. More recent results seem to support this observation, although due to the way the models are constructed it is impossible to broaden the scope of Mann's findings, beyond identifying a disincentive on prices from food aid which will, cetera paribus, have a negative impact on commercial imports (see, for example, Rogers et al. 1972). Hall supports this finding using the data for Brazil (1980: 27). More casual regressions by Maxwell in Senegal (1986a: 20-21) indicate that commercial imports have fluctuated much less than food aid, giving no significant statistical relationship between the two. In another study (Maxwell 1986b), the import of grains is shown to be more dependent on foreign exchange than food aid. It appears that some effect is apparent in the empirical studies, but less convincing in the ad hoc assessments.

The reconciliation of the various views and findings seems to be that food aid can be either negative or positive in its impact on domestic production and commercial imports depending on the environment in which it is used.
5. A New Version Of Food Aid

The analysis suggests that, like many other economic ventures, food aid yields both costs and benefits. Whether costs exceed benefits or vice versa is an empirical question, the answer to which is constrained by a paucity of data. However, useful insights into this central question may be provided by identifying losers and gainers of the new versions of traditional food aid in international agricultural trade. A major program amalgamating various components of traditional food aid in addition to other strategic considerations is that of the US Export Enhancement Program (EEP).

The introduction of EEP in 1986 was the result of a complex set of events including the cumulative impact of the loss of foreign markets, continued high production in the US and expiration of the 1981 Farm Act which provided an opportunity to re-evaluate US farm programs. Prior to 1986, the US program was not flexible enough to respond immediately to price cutting by competitors, increased sales by other wheat exporters coming at the expense of US market share. EEP was chosen as the most effective response to these shortfalls.

EEP has intensified foreign competition in various markets and placed added pressure on the European Community and all other competing wheat exporting nations. For example, the Australian government has decided to maintain the single desk selling status of the Australian Wheat Board (AWB) and to extend the guarantee on AWB borrowing until the end of this decade. In a more aggressive move, Canada has recently introduced two multi-billion dollar income support programs. These are the Gross Revenue Insurance Program and the Net Income Stabilisation Account which are effectively used as implicit export subsidies for grain farmers. Although both these exporters have been able to maintain market share, the cost of the EEP has been expressed through the changing of the price profile. For instance, an "ess of the payment for quality in Australian wheat has exhibited a significant downward trend in premiums since 1987 (Ahmadi-Esfahani and Stannmore 1993). The European Community may well be able to continue to cope until future export restrictions are increased, but for Australia and Canada which rely more heavily on wheat exports, the lower prices will have an adverse effect on the structure of wheat production and the viability of the industry.

Similarly in developing countries, the availability of subsidised wheat has shifted the demand for US wheat and forced wheat producers off the land, in the past where several of these countries are now solely dependent on wheat imported from the US. Similar to an import or consumption subsidy pursued by some of the recipient governments, EEP has reduced internal prices resulting in expansion of domestic consumption and imports. From a strategic standpoint, the introduction of EEP may also be considered a sunk cost to gain a foothold in non-US markets. This can be justified on economic grounds if these new customers are able to purchase regular amounts at market prices at a later stage. EEP is thus a loyalty-inducing marketing device which has effectively eroded the potential of competing exporters such as Australia and Canada to enter into long-term agreements with developing countries.

Although not explicitly stated as one of EEP's objectives, a rationale underlying this in-kind subsidy scheme was that it would stop the US stockpile of wheat which had built up to a peak of 52 million tonnes in 1985/86 (ABARE 1993: 103). As well as being effective in seeing this excess supply reduced, industries which rely heavily on the wheat industry, such as input marketing services and processing have also benefited. In particular, as the grain trade gets its margin on every tonne regardless of prices, volume increases lead to higher profits for this sector. In fact, it might not be in the interest of this sector to increase the international... prices of wheat if it led to more importing countries enhancing their domestic production and marketing capacity to reduce imports. This potential, central to the national food self-sufficiency policies of many developing countries, directly threatens the interest of wheat trade and has been structurally undermined by EEP.

Similarly, the US economy could potentially benefit from the trade of other products to the particular markets targeted under EEP. The increased foreign consumer surplus in wheat (economic gains) will allow the importing country to have more flexibility in purchasing other US agricultural and/or non-agricultural products, particularly if this assistance is tied. Even if unconditional, there may also be political benefits for the US through improved trade relations, the supply of cheap wheat encouraging the importing country to look favourably upon the US in other matters. As such, EEP appears to have become an effective foreign policy tool.

Finally, EEP has also strengthened the US's ability to win concessions from the European Community and other major exporters in the Uruguay Round of GATT negotiations. More generally, EEP has contributed to the US emerging as a significant balancing force in international trade conflicts. This is supportive of the proposition that the EEP acts not only as a form of aid, but also as a strategic trade policy to serve political ends.

6. Conclusions

From the analysis, the consideration of food aid impacts from theory enhances the idea of trade-offs and country specific effects. Experiences in the use of food aid as a form of development assistance has revealed both the potential to harm and the potential to heal. In reconsidering the current role of food aid, an examination of the 1986 US EEP, the 1954 PL-480 program, captures the imposition of costs on producers in competing export countries and importing nations, and benefits for producers in donor countries and consumers in food deficit nations. It is perhaps for the latter rationale that EEP, and food aid in general, will continue to find merit, as it transcends the barrier to food faced by the world's one billion poor.
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