DISCOURSE	ESSAY	AUSTIN BLAIR SIADAK	10	DISCOURSE	THE FORGOTTEN CRISIS	AUSTIN BLAIR SIADAK	11
			1 OF 30		IMPOVERISHED MILLIONS AND THREATENED GOVERNMENTS		2 OF 30

# THE FORGOTTEN CRISIS

HOW HIGH FOOD PRICES HAVE IMPOVERISHED MILLIONS AND THREATENED GOVERNMENTS

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DISCOURSE

THE FORGOTTEN CRISIS HOW HIGH FOOD PRICES HAVE IMPOVERISHED MILLIONS AND THREATENED GOVERNMENT

AUSTIN BLATR STADA

13 4 DE 30

# Author's Note

This essay was originally submitted in May of last year as a final research project for the 2007-2008 EPIIC Colloquium on Global Poverty and Inequality and was updated in late August, slated for publication in Discourse. Just weeks later, however, Lehman Brothers went bankrupt, marking the beginning of what has subsequently turned into a global financial crisis on a scale not seen for decades, perhaps ever. This crisis has wrought massive change across a multitude of regions, sectors and disciplines in past months, turning previously accepted practices into laughable follies and forcing all of us to rethink what we know about our modern world and how it works. It should thus come as no surprise that some of the information and situations explained in the following pages have changed since September – I must admit that when I was approached to update the piece for this semester I thought much of what I had written would be inapplicable or outdated under current circumstances. Despite these fears, I found that the current financial crisis has added more problems and difficulties to the food crisis than it has removed. Yes, some of the data has changed and the international environment is undoubtedly different now, but I have opted to leave the essay largely untouched to provide a clear understanding of one of the largest untold stories of the past few years that fails to disappear despite shifting international attention. Aware of the need for up-to-date information, I have added a short addendum describing the current state of the global food crisis.

## Introduction

On April 21, 2008, Jacques Edouard Alexis was ousted from his position as Haitian Prime Minister following numerous violent clashes between United Nations troops and protestors calling for his removal.<sup>1</sup> To anyone familiar with Haitian history and politics, such an event might not seem extraordinary, given the frequent government overthrows, deadly insecurity, and near constant fighting that have plagued the country for the past few decades. What is extraordinary, however, was the cause of the deadly protests: food. Rising food prices had caused the costs of basic staples to run so high – pasta and rice prices had doubled in the past few months - that many poor, urban Haitians were reduced to buying and consuming "pica" - cookies made from salt, vegetable shortening, and dirt.<sup>2</sup> No wonder Haitians had rioted; they could afford nothing more than dirt, and some could not even afford that.

Unfortunately, this episode in Haiti is merely one of the many examples of how skyrocketing food prices have swept the globe and created havoc in the past year. For decades, the world benefited from cheap food, permitting hundreds of millions to move out of poverty and the global middle class to boom.<sup>3</sup> Now, however, that has all changed. From Cameroon to China, Pakistan to the Philippines, the fast rising costs of basic foodstuffs have made riots commonplace and left governments caught off guard in their attempts to stabilize prices, feed their people, and avoid both humanitarian and political catastrophes. Worse, hundreds of millions of impoverished peoples face the threat of malnutrition or starvation

it is very likely that global poverty reduction efforts may confined to poor and developing states, as even the United tial to leave lasting devastation in its wake.

Though the era of cheap food is over, many pressing questions remain. What caused the sudden jumps in prices? Who will be the most affected? How long will these new prices last? Who, if anyone, is benefiting from the current food crisis? And perhaps most importantly, what can be done right now to prevent humanitarian emergencies and to stabilize prices at an affordable rate for the majority of the world's consumers? This article will attempt to shed light on these questions, in addition to others, by providing an to its existence, what repercussions are likely both in the soon, much less to the degree that they did.8 short and long term, and some of the ways in which the peoples and governments of the world can best address this burgeoning disaster.

# Cheap No More<sup>4</sup>

Before delving into the causes and long term implications of the global food crisis, it is important to understand the complex series of events that comprise the current predicament, including how much food prices have changed, what affected the most, and who is profiting.

First, some history is in order. Until the past few years, food prices around the world had been extremely cheap for decades. Owing in large part to the Green Revolution use of improved technologies such as pesticides, advanced irrigation projects and synthetic fertilizers was widely

because they simply cannot afford to buy enough food, and increased dramatically. For example, the global cereal output alone doubled between 1961 and 1985.5 Though oil halt or even be reversed. Moreover, this is not just a problem crises and high inflation in the 1970s briefly caused food prices to shoot up, ever increasing production, techno-States and European countries have seen large increases in logical innovation, increases in global crop acreage, market the costs of their food, putting pressure on their populations liberalization, and dropping oil prices sent food prices and economies as well. The simple fact is that the world tumbling again in the last two decades of the century. For currently faces a truly *global* food crisis. Perhaps the most example, wheat prices topped \$25 a bushel in the mid-1970s frightening aspect is that many experts predict this current but had dropped to only \$3 a bushel in 2000, adjusted for wave of high prices to last for years to come, with the poten- inflation.<sup>6</sup> This is not to say that food shortages, famine, and starvation were nonexistent during this period, but the overwhelming result was a worldwide boon for consumers who had access to both an increased amount and variety of foods. This included tens of millions of poor families who could attain better nutrition at a lower cost. greatly helping to reduce global poverty. However, at the same time, low prices meant that many farmers around the globe faced tougher times and often received less for their crops than did their parents in previous generations, increasing rural poverty in some areas.7 Still, as the world rode the wave of cheap food into the new millennium, few overview of the current global food crisis, what causes led predicted that large price changes would occur any time

Increases in the price of food over the past few years have not just been large, they have been astronomical. From 2005 to 2008, world food prices as a whole rose by 80 percent.9 While this figure alone is alarming, hidden within it are much more recent and much larger price changes in some of the world's most important food crops. Foods made from cereal crops such as rice, wheat, or maize (corn) are consumed by nearly everyone on the planet, and for the world's poorest people these crops signify the large majority of their diet.<sup>10</sup> Thus, one can imagine how problematic it was when, in some of the most immediate effects have been, who is being 2007 alone, wheat prices rose by 77 percent and rice prices rose by 16 percent. Even more worrisome were the massive jumps in the first few months of 2008, with rice prices in April rising 141 percent above their highest 2007 levels.<sup>11</sup> It is not just the price of cereals that has shot up either. Dairy prices have risen by nearly a third since the beginning of that took place in the years after World War II, in which the 2007, and oils and fats (used extensively for cooking around the world) are up 98 percent from March of 2007.12 Though prices have dipped a bit since April and May of 2008, such increased in developing countries, global food output increases are still unprecedented, and as one grain trader

DISCOURSE	ESSAY	AUSTIN BLAIR SIADAK	14	DISCOURSE	THE FORGOTTEN CRISIS	AUSTIN BLAIR SIADAK	15
			5 DF 30		IMPOVERISHED MILLIONS AND THREATENED GOVERNMENTS		6 OF 30

For those living on \$2 a day, it means cutting out meat from their diets and removing children from school. For those on \$1 a day, it means removing meat and vegetables and eating only cereals. And for those living on 50 cents a day, in Sheeran's words, "it means total disaster."

tellingly puts it, "Anyone who tells you they've seen some- The same cannot be said for the world's poor. Because they thing like this is a liar."13

the worst, has been the drastic increase in the percentage of income that must be spent on food. While all consumers have had to pay more for food in the past year, the effects of increased spending are extremely unequal depending on one's income and location. A few more dollars for certain products may not make much of a difference to consumers in developed states, but it is often the difference between life and death for poorer populations who already pay heavily (comparatively) for more meager rations. Americans, for example, on average only spend about ten percent of household income on food. While increasing food prices may force rates of 50 percent, pose threats not just to diets and nuthese consumers to buy cheaper products or reduce spending trition but to overall purchasing power as well, reducing in other sectors, they generally have the fortunate ability simply to shift where they spend their disposable income healthcare. Moreover, because the poor generally buy priand continue their daily routines with little change.<sup>14</sup> Of mary products rather than processed foods (buying a kilo course, this is not true for all, and many Americans are now of maize rather than a box of Corn Flakes, for example) finding it harder to make paychecks stretch far enough to cover high living costs and rising inflation, but very few face risks of starvation or severe malnutrition.

already use a significant portion of their income to pay for food and have little disposable income, high food prices The most obvious effect of these price increases, and likely cause the poor to consume less nutritious foods and to reduce their overall food intake, leading to serious dietary and health problems. The International Food Policy Research Institute (IFPRI), a leading consulting and policy advising organization, notes that in general, "At the household level, the poor spend about 50 to 60 percent of their overall budget on food. For a five-person household living on US\$1 per person per day, a 50 percent increase in food prices removes up to US\$1.50 from their US\$5 budget, and growing energy costs also add to their adjustment burden."15 It is no wonder then that the price increases noted above, which far exceed the ability of the poor to afford sanitation, education, and they are much more acutely affected by even small price increases.<sup>16</sup> Specifically, says Josette Sheeran, who runs the United Nations' World Food Programme (WFP), the impact of the rise in food prices on the global middle classes has meant a shift away from medical care and certain non-essential items such as clothing. For those living on \$2 a day, it means cutting out meat from their diets and removing children from school. For those on \$1 a day, it means removing meat and vegetables and eating only cereals. And for those living on 50 cents a day, in Sheeran's words, "it means total disaster."<sup>17</sup> Thus, for the poorest of the poor, recent price increases pose serious threats to food security as well as dietary and overall health, with numerous negative effects in the short and long term. Worse, the World Bank estimated earlier this year that an additional 100 million people are likely to be pushed into poverty and face food insecurity as a direct result of the food crisis.<sup>18</sup>

As if this were not bad enough for the world's most destitute, the international agencies responsible for feeding and helping them now face problems of titanic magnitudes as they try to cope with dramatic price increases. For organizations providing food assistance, rising prices have translated into enormous budget shortfalls. The WFP, responsible for feeding nearly 90 million people worldwide, first sounded the alarms in late March by saying that it needed \$500 million in emergency funding before May 1 or it would have to start cutting rations, and then raised its initial estimate to over \$750 million by late April.<sup>19,20</sup> Additionally, the United States Agency for International Development (USAID), which is responsible for dispersing a large portion of federal foreign assistance, said in April that its commodity expenses had increased by 41 percent in the previous six months, creating budgetary pressures in some areas.<sup>21</sup> Though the WFP has since received sufficient funding to avoid any imminent catastrophes, and recently announced a new \$1.2 billion assistance package to 62 countries, it will need continued increases in funding to deal with high food costs in the long term.<sup>22</sup> Likewise, unless other development agencies receive more funding immediately and can establish larger budget inflows in the long term, multiple humanitarian disasters could be in store for the future.

Just as the effects of high food prices differ at the household level, some countries have been hit harder than others. In general, developed countries have seen lower price increases than developing countries and net food exporters have been better off than net food importers. While some politicians in developed states such as those in the European Union or United States have begun to clamor for more attention on the issue of high food prices, they have not experienced anything even remotely resembling what is happening in other countries across the globe. For example, food prices in the United States are only expected to increase by four to five percent in 2008, Americans have a much larger variety of food types to substitute for expensive products, and even the greatest price increases in popular foods such as milk and white bread have been a (relatively) modest 23 and 16 percent respectively.23 Needless to say, such events seem miniscule when compared to what has happened in Haiti or Cameroon, where violent protests over food and fuel costs in February 2008 led to the deaths of at least 40 people.<sup>24</sup> In Egypt, a doubling of staple food prices in recent months earlier this year led to protests that resulted in the shooting of a young boy.<sup>25</sup> Similarly, large price increases and disorderly events have occurred in the Philippines, Mozambique, Pakistan, and Indonesia, among others. Overall, net food exporters such as the United States and Australia have gained the most from terms of trade

16

AUSTIN BLATR STADAK

7 DE 30

DISCOURSE

THE FORGOTTEN CRISIS HOW HIGH FOOD PRICES HAVE IMPOVERISHED MILLIONS AND THREATENED GOVERNMENT

17 8 DE 30

ALISTIN REATR STARAK

improvements, while net importers such as most African problems created by the food crisis, especially concerning and some south Asian states, as well as many non-oil proon imported food, and/or lack the governmental capacity cussed later.

ESSAY

stockpiles, numerous developing countries have imposed price controls, prohibited exports of certain crops, or inmajor cereal crops. Other countries, such as Morocco and posed policy actions.<sup>34</sup> Nigeria, have reduced tariffs and other restrictions on imports in an attempt to lower the price of imported food as Reponses have come more slowly in the United States and much as possible.<sup>27,28</sup> Some states have shown strong ini- Europe, but governments in both have expressed strong tiative in tackling the crisis responsibly by increasing cash transfer programs for their citizens and expanding social safety nets, but so far such important actions have not been U.S. than in most other nations around the world, there scaled up to the level necessary to stop many of the poor has been little public backlash over the issue and few polifrom slipping through the cracks.<sup>29</sup>

International organizations have also responded loudly, if stopping short of taking all the necessary steps to stem multiple U.S. Senate hearings have been called to address the crisis. Following the lead of organizations such as the the issue both in the United States and around the rest of WFP that began calling for greater attention months ago, the world as well.<sup>35</sup> Last April, President Bush freed up UN Secretary General Ban Ki-moon released a statement over \$200 million in food aid and called on Congress to in April 2008 saying that the United Nations and World approve an extra \$770 million dollars in food aid and re-Bank would jointly establish a task force to address the lated measures in order to "[send] a clear message to the

its effects on impoverished regions and peoples.<sup>30</sup> World ducing Middle Eastern countries have faced larger budget Bank President Robert Zoellick termed the plan a "New deficits.<sup>26</sup> The interesting, and telling, point is that those Deal for Global Food Policy."<sup>31</sup> Both men emphatically enplaces that have been the most affected, and where the couraged states to provide the nearly \$1 billion in emergency most violent reactions have been, are all poor or developing relief spending that organizations such as the WFP needed countries that have low per capita incomes, depend heavily immediately to continue operations, with Ban stating, "Without full funding of these emergency requirements, to contend with volatile price swings. The global food crisis we risk again the specter of widespread hunger, malnutrithreatens not only the health of the world's poorest people, tion, and social unrest on an unprecedented scale." Zoellick but also of the world's poorest governments, as will be dis- and Ban also discouraged the widespread use of export bans because they "encourage hoarding, drive up prices and hurt the poorest people around the world who are Not surprisingly, jumps in global food prices have elicited struggling to feed themselves."32 Since then, at least two a host of governmental reactions around the globe, especially major international meetings have taken place to discuss in those states that have been hit hardest. In order to placate the crisis, most prominently the UN "Conference on World nervous consumers and ensure sufficient domestic food Food Security: Challenges of Climate Change and Bioenergy" held in June 2008 in Rome. At this meeting, Ban called for a 50 percent increase in global food output by creased subsidies. In India, the government has effectively 2030 and, together with other development heads, voiced banned exports of all non-basmati rice, as well as the export the need for a "second green revolution."<sup>33</sup> While these of milk powder products; China has banned all rice and high level summits have notably called for a refocusing maize exports and increased subsidies to farmers; the Philip- of attention on small farmers in developing countries, pines government has even made rice hoarding punishable governments have stuck hard to their differing national by death. In addition, Vietnam recently reduced rice exports interests and little consensus has been made on important by a fifth, Bolivia banned export of soy oil to numerous issues, including the essential task of delineating which South American states, and Ethiopia banned the export of actors will be responsible for the implementation of pro-

> desires to help stop the current crisis. Largely because gains in food prices have been more gradual and moderate in the ticians have made much of it. Still, action has begun to be taken as the costs of the global food crisis have started to filter into the American economy in tangible ways, and

current problems, certainly does not aid in their solutions.<sup>37</sup>

caused throughout the world, there are some actors who may not mind if solutions take time to gestate. In any crisis market, which deals in some 25 agricultural commoditthere are both losers and winners, and the easiest winners to see in the current crisis are farmers in developed countries. While their counterparts in poor nations face problems in a million contracts a day. This will soon exceed the rate of procuring basic food items for their families, cannot pay the rising costs of yield-increasing fertilizers, must sell at of these contracts will bring a profit for their owners, but a lower prices because they can not store their harvests, and generally lack advanced agricultural technologies, farmers will make a fortune. in developed countries are experiencing the greatest boom their sector has seen in decades. As farmer Erwin Johnson In sum, cheap food prices, which prevailed for the past few of Charles City. Iowa told the Washington Post, "This is a fantastic time to be farming. I'm 65, but I can't quit now."38 His enthusiasm is understandable: for his corn, Johnson currently receives more than twice as much as he did just a couple of years ago.<sup>39</sup> With corn, wheat, soybeans, alfalfa, and most other crops fetching prices double or triple what they did just a few years ago, many farmers in rich countries have seen their incomes increase by twofold or more and can afford the more expensive fertilizer costs and modest gains in food prices.

Though farmers are those benefiting most visibly, they are most. Others like Erwin Johnson currently sell their crops for top dollar, but they will not actually see the money until their next harvest. The reason? Most farmers have already

world that America will lead the fight against hunger for sell them on the global market, as well as firms that proyears to come."36 Across the pond, state and European vide farming equipment and financial speculators betting Union government officials have agreed that they must on future global food prices. The two largest global food help in financing solutions to the current crisis and in es- traders, Cargill Incorporated and Archer Daniels Midland tablishing greater global food security, yet EU politicians Company (ADM), reported 2007 profits up a combined 103 appear apprehensive to seriously consider restructuring percent from the year before, and food giant The Monsanto policies such as the multi-billion dollar Common Agricul- Company saw profits in the third quarter more than double. tural Policy (CAP) that supplies enormous food subsidies to Deere and Company, famous for its tractors, experienced a European farmers and, while perhaps not directly causing 55 percent rise in profit in the same time period, and The Mosaic Company, one of the world's largest fertilizer manufactures, increased its third quarter net income nearly12 Despite the destructive effects that high food prices have fold.<sup>40</sup> Concerning speculation, the International Herald Tribune reported in April that "On the Chicago CME Group ies...the volume of contracts has increased by 20 percent since the start of the year and now has reached the level of growth reached in all of 2007."41 Of course, not every one large number will, and at such high trading volume, some

decades, have become a thing of the past as food prices for the world's most popular crops doubled, tripled, and even quadrupled in the past six to 12 months. Those left worst off by these price jumps are the world's poor, who already have trouble buying enough food for their families and simply cannot keep up with enormous rises in food prices. Expensive food has pushed the majority of the more than one billion living on less than \$1 a day deeper into poverty, while welcoming tens of millions more into that category. Those in developed countries also feel the pinch, but they have many more options than do the poor and have not been as harshly affected. Developing countries have been not the only ones winning and are not even those profiting hit hardest, cementing the fact that this is a crisis that most affects both poor people and poor countries, and have responded with a variety of drastic measures to keep food at home or import it more cheaply from abroad. Both intersold their crops from last year's harvest and at last year's national organizations and developed countries recognize prices, meaning that they are not gaining much at this their responsibility in bringing the situation under control moment while prices shoot higher. Those who appear to and have demonstrated a desire to help prevent possible be winning the most from the global food crisis are the disasters, but have failed to take necessary steps toward commodities traders who buy the crops from farmers and fixing long term problems. In the meantime, farmers in

DISCOURSE	ESSAY	AUSTIN BLAIR SIADAK	18	DISCOURSE	THE FORGOTTEN CRISIS	AUSTIN BLAIR SIADAK	19
					HOW HIGH FOOD PRICES HAVE		
			9 OF 30		IMPOVERISHED MILLIONS AND		10 OF 30
					THREATENED GOVERNMENTS		

The Economist notes, "what is most remarkable about the present [food crisis] is that record prices are being achieved at a time not of scarcity but of abundance. ... [T]his year's total cereals crop will be 1.66 billion tonnes, the largest on record and 89m tonnes more than last year's harvest, another bumper crop."

developed countries, as well as financial speculators and The recent rise in food prices would be easy to understand commodity traders, are profiting nicely. That is the current if it were simply a matter of crop failures and food shortages. state of the global food crisis. The real question though is This is how famines have played out throughout history, how it will be solved. Before that can be addressed, however, from the Irish Potato Famine to many supply disruptions another question must first be must answered: what caused in poor countries around the world. As predictions and the crisis?

# Not Your Grandfather's Food Crisis

One of the most interesting aspects of the current food crisis is how different its causes are from those of traditional episodes of starvation and famine. In the past, food shortages largely occurred in relatively concentrated areas, pressures, or war. While some of these have played a role and food shortages. in creating current problems, there exist other factors that make this new crisis very different. Not only has it spread However, while some crops have failed around the world, globally, it is a product of global events, helped by the glothing argument fails to hold for a number of reasons. First, balization and liberalization of food markets worldwide. as The Economist notes, "what is most remarkable about the Moreover, the current crisis is happening not at a time of global crop failure and dwindling supply, but rather one at a time not of scarcity but of abundance. ... [T]his year's of record harvests. Four factors in particular have been most total cereals crop will be 1.66 billion tonnes, the largest prominently cited as the principle causes of the current on record and 89m tonnes more than last year's harvest, crisis: Weather-related crop failures possibly due to advanc- another bumper crop,"44 Though some isolated failed ing climate change, a steady upward pressure on demand as harvests exist, it does not change the fact that global food a result of larger incomes in developing countries, high oil production is at an all time high. Moreover, even if crops and fertilizer prices, and increased production of biofuels. fail in one area, the globalization of the food market makes

realizations about changing weather patterns due to climate change worsen, it also would not be a large surprise if rising temperatures and drought were to destroy crops and ruin harvests around the globe. Some say it has even begun to happen: In Australia, one of the world's largest producers and exporters of grain, the wheat crop has failed for two years in a row and prospects do not look good for the coming harvest.<sup>42</sup> Moreover, global wheat supply has been outpaced by demand for seven of the last eight years.43 usually as a result of drought, crop failure, population Perhaps high food prices are just a product of crop failures

present [food crisis] is that record prices are being achieved

crops. Thus, Australia's woes will not make it unable to feed its people, though it may cost more to do so.

are net producers and exporters of food, while others consistently import large percentages of their food supply, and in the past year many of the net exporters have attempted to keep prices down within their own borders by limiting nearly all major food commodities markets, most notably in easier to understand. the rice market, and over 30 countries world wide currently have some form of export ban in place.<sup>45</sup> Unfortunately, However, the global increase in demand for non-staple not fortunate enough to be net producers themselves. Thus, mous famines and food crises, and a string of current supply shortages in certain places around the world certainly do so dramatically even at a time of bumper crops can only signify one thing: an enormous increase in demand.

It is simple economics: when the demand for a good increases, so does its price. Globally, the demand for food is growing at an enormous rate and is one of the main drivers behind higher prices. Unprecedented economic growth in many developing countries has increased the purchasing power of their consumers, translating into a huge rise in demand for non-staple foods that were once unattainable, such as beef. The New York Times reports, "As the newly urbanized and newly affluent seek more protein and more calories, a phenomenon called 'diet globalization' is playing out around the world. Demand is growing for pork in Rusgiving way to noodles, home-cooked food to fast food."46 In China, where growth has been phenomenal and over 300 million people have been brought out of poverty in Second, the gross majority of fertilizers used by all farmers

it possible, in theory, to import needed grains or staple of both grain and water – 150 to 250 gallons of water to produce a pound of wheat, and seven to nine pounds of wheat to produce one pound of beef - the demand increase in China alone takes an enormous toll on the world's resources.47 The more fundamental problem, rather, has been where And it is not just meat that is becoming more common. As the current supply of food is being directed. Some countries one Nigerian explains, bread in his country (which often uses expensive imported grain in production) is no longer a delicacy, but a staple: "The moment you develop a taste, you are hooked."48 When one sees events such as those in China and Nigeria play out across the world, greatly increasthe export of certain crops. Such events have happened in ing world demand, high global food prices become much

this creates an extremely distorted market where supplies foods has been a slow and steady process playing out over do not flow to areas where demand is the highest, creating decades, and a simple supply/demand explanation alone severe shortages and raising food prices for those countries cannot account for the rapid price increases seen in the past few months. Enter our third culprit: high oil prices. It is though supply problems may have been behind many fa- no secret that oil prices have skyrocketed to new highs in 2008, reaching \$116.27 per barrel for light crude as of August 27th (down from highs near \$150 per barrel earlier in the not help bring prices down, they are not the major cause summer) from less than \$30 a barrel in 2002 and less than of the current crisis. Rather, the fact that prices have risen \$65 a barrel in 2006.49 High fuel prices, in turn, raise the price of food in two major ways. First, higher oil prices mean higher transportation and energy costs, which translate into higher food prices because most food grown around the world travels at least some distance from producer to consumer, many times crossing international borders en route, and any method of transportation from truck, to rail, to boat, or plane requires oil. For example, when a shipping company has to pay more for fuel to ship a boatload of wheat from the U.S. to Nigeria, it cannot absorb all of the costs itself and must pass them on to the consumer in the form of higher prices. In addition, most farmers in developed countries rely heavily on large tractors to plant and bring in their harvests, and high fuel costs add to the costs of producing their food as well. In other areas of the supply chain, sia, beef in Indonesia and dairy products in Mexico. Rice is such as storage facilities and local distribution, higher energy prices across the board lead to more expensive food.

recent decades, the average consumption of meat per capita in developed countries and many of the farmers in develin 1980 was only 20 kilograms. Today it is 55 kilograms. oping countries are petroleum based, meaning that their Given that growing cattle takes an extraordinary amount prices increase with the price of oil. In addition, between

AUSTIN REATR STARAK

20 11 DE 30 DISCOURSE

THE FORGOTTEN CRISIS HOW HIGH FOOD PRICES HAVE IMPOVERISHED MILLIONS AND THREATENED GOVERNMENT

AUSTIN BLATR STADA

21 12 DE 38

1996 and 2008, there was a 36 percent global increase in the a problem of where the current supply is being directed. The on these fertilizers, and just as shipping firms must pass on the cost of transportation to consumers, so too must farmers pass on the rising costs of fertilizers in the form of some farmers have begun to replace chemical based fertilizers with traditional methods such as pig manure, but such techniques result in reduced crop yields and only increase the growing difference between global food supply and demand.

the current crisis is the recent increase in the demand for pear paradoxical that an outcome of the well-intentioned the world's poor, but a closer look at the current production

IN 2008. FOR EXAMPLE. BETWEEN **ONE-ETETH AND** ONE-QUARTER OF THE U.S. CORN CROP WENT TOWARD ETHANOL PRODUCTION.

demand for fertilizers and a 56 percent increase in devel- basic problem with biofuels is that they increase these supoping countries alone, largely due to an increase in crop ply disruptions, diverting a large percentage of certain crops production to fill the growing food demand around the toward fuel production and away from hungry mouths. In world. However, fertilizer producers have not kept up, 2008, for example, between one-fifth and one-quarter of leading to large shortages of fertilizer on the global market. the U.S. corn crop went toward ethanol production, result-This growing gap between supply and demand, combined ing in a wide range of negative cascading effects.<sup>51</sup> First, with an increase in the price of oil used to make fertilizers, and most plainly, there is less corn to go around, causing has caused the price of some fertilizers to triple and the the price of corn and all corn-based products to increase price of nearly all types to rise significantly.<sup>50</sup> This presents dramatically. For example, corn is a popular ingredient of an enormous cost increase to farmers whose crops depend animal feed, and high corn prices have in turn raised the price of meat.<sup>52</sup> Second, farmers know there is a huge demand for corn and have substituted it for other food crops. such as wheat or soybeans, reducing the supply of these higher food prices. In the face of expensive fertilizers, crops and pushing up their market prices as well. Third, it results in a further linking of fuel and food prices: Because biofuels are oil's major substitute, their price is inherently tied to the price of oil. Therefore, when oil prices increase, so do biofuel prices, leading to an increased willingness of farmers to supply the corn and other crops used in making biofuels, and raising corn prices as well as the price of many The final factor mentioned as one of the main causes of other grains and crops.<sup>53</sup> In addition, high grain prices greatly increase the value of land, leading in some places biofuels, such as ethanol and biodiesel. It may at first apcleared to make room for corn, soy, or other crops. While global environmental movement could negatively affect biofuels proponents discount claims that they have had much of a negative impact on food prices, a recent study by of biofuels makes it clear. Recall that the current food crisis the IFPRI estimated that, by injecting a huge new demand does not stem from a traditional supply shortage, but rather increase into the global market and taking more grains away from food production between 2000 and 2007, biofuels were responsible for a 30 percent increase in the price of grains as a whole.54

> Though each of the preceding explanations plays a large role in raising food prices, there are a few more fundamental, if less often reported, factors at play. The first concerns global reserves and stockpiles of grains and other staple crops. While global food supply is at record levels, stockpiles are not. As a result of increasing market liberalization over the past few decades, "... the once-common practice of hoarding grains to protect against the kind of shortfall the world is seeing now seemed more and more archaic," reports the Washington Post.55 The effect was a global reduction in grain reserves that did not seem to pose much of a problem, and

days of use in 1990-2000 to only 56.7 days of use last year.<sup>56</sup> as market traders and speculators began to realize that some governments would not be able to feed their populations, or would have to pay dearly in order to do so, and raised their bets on food futures, in turn raising current prices.

trading of commodities reached the levels that it has today, if a government were to run down its reserves it could still the food market. A large majority of the world's crops are today.63 bought and sold at major commodities markets in Chicago, Minneapolis, and Kansas City, and world prices are deter- Another extremely important cause is the rash string of ing price.57

When food prices began to rise last summer, speculators and traders dove headfirst into the action. Due to the downturn of the stock market following the growing mortgage for a new place to invest and threw hundreds of millions of dollars into grains futures. Many say that this caused a

made food even cheaper. Now, however, as demand great- "Speculative purchases have no other purpose than to make ly outstrips supply, governments around the world have money for the speculators, who hold their contracts to drive dipped into their reserves to fill the gap, running their up current prices with the intention not of selling the comstockpiles of staple crops down to record lows in attempts modifies on the real future market, but of unloading their to feed their people and keep the price of food from shoot- holdings onto an artificially inflated market, at the expense ing even higher. One commodity analysis firm reports that of the ultimate consumer."60 It is important to realize, global grain reserves have fallen from an average of 114.7 though, that future contracts in the food market themselves are not a bad things, as they have "classically have been the These actions subsequently resulted in higher food prices means by which a limited number of traders stabilized future commodity prices and enabled farmers to finance themselves through future sales."61 What is worrisome is that more and more untraditional "non-commercial" speculators, traders, and hedge funds have come to see the food market as a place first and foremost to make a profit. Re-Trading and speculation appear to be another major cause gardless of speculation's role in causing high prices, there of the current crisis in their own right. In the past, before are new fears that it is causing prices to lie about current supply and demand, creating the possibility of a growing agricultural bubble that could prove disastrous for both keep the price of food under control because food prices farmers and consumers.<sup>62</sup> In the end, most involved in the were not determined at the global level. Today however, market admit that, at the very least, without this recent this is nearly impossible due to the globalized nature of influx of speculation prices would be lower than they are

mined in the pits as brokers buy and sell spot and future export bans and other actions that some governments took exchanges of wheat, maize, soybeans, and all kinds of foods. last year and in the beginning of this year in their early Government purchases also play a large role in determinatempts to stem the rise in food prices. Near the end of 2007, with global food prices rising, speculation sending futures ever higher, and food riots beginning to flare up across the world, many governments started placing orders in the commodities market for enormous quantities of food. The weak dollar made the U.S. market appear enticcrisis in the United States, many investors were looking ing, and as the Washington Post reports, "They put in orders on U.S. grain exchanges two to three times larger than normal...[leading] major domestic U.S. mills to jump into the quick rise in the price of grains and a subsequent increase fray with their own massive orders, fearing that there would in the price of food, though others are wary of this explana- soon be no wheat left at any price."64 These runs on global tion and say that increased speculation is just as much a harvests caused speculators to bet futures higher and sent symptom of the current crisis as it is a cause.<sup>58</sup> Still, says the price of staple foods upward. In addition, the institu-David King, Secretary-General of the International Feder- tion of export bans and other methods of food hoarding ation of Agricultural Producers, "Even if it is difficult to by government around the globe caused prices to accelergauge the real impact of this financial speculation, it has ate quickly early this year. The reason is that these actions certainly played a role in influencing trading prices."<sup>59</sup> contribute to supply misdirection and create market distor-William Pfaff of the International Herald Tribune notes that tions by artificially reducing the supply of tradable food

AUSTIN BLATR STADAK

22 13 OF 30 DISCOURSE

THE FORGOTTEN CRISIS HOW HIGH FOOD PRICES HAVE IMPOVERISHED MILLIONS AND THREATENED GOVERNMENT

ALISTIN REATR STADAK

23 14 DE 38

and increasing market volatility, causing prices to rise and food chain that has occurred in the past decades. From speculators to bet up futures prices.

food prices to rise as well. Because many international exchanges of grains and other crops are denominated in U.S. dollars, even if food prices had remained unchanged over traders and speculators. Policies in one country, such as the past few years in terms of other currencies their market strict control of oil supply by Middle Eastern states or exprice would still have risen. However, prices across the board have not stayed steady during this time period, adding to the price increases due to devaluation alone. The IFPRI the world, and even well intentioned policies such as U.S. estimated earlier this year that the role played by the dropping value of the dollar alone could amount to anywhere Theoretically, the benefit of such a system is that even when between a 15 and 27 percent increase in the rise of food prices in the past two years.65

combined to send food prices through the roof. Though ages, the current crisis has been caused by a large supply The global increase in demand for resource intensive foods ing the global food crisis, and how can it best be resolved? over the past few decades has put a large strain on food production, but its slow nature means that it alone cannot explain the rapid increase in prices. Rather, this swift price What Is In Store? jump came from a combination of high transportation and fertilizer costs due to rising oil prices, as well as a shift of some crops away from food production to satisfy a new demand in the market for biofuels and ethanol. In addition, as demand outpaced supply and prices moved upward countries depleted their grain reserves, leading commodities traders and speculators to bet prices even higher. The final push was caused by export bans and grain hoarding around the world, as well as a run on American grain markets in the end of 2007 and beginning of 2008 as governments feared a looming shortage and attempted to buy as much grain as possible. Viewing these actions, speculators and traders further increased their predictions for food futures, if biofuels demands decreased dramatically. None of these resulting in unprecedented global food prices at the end scenarios is going to play out anytime soon. Let's look at of April and into early summer.

An interesting point that these causes make clear is that Greatly increasing global food supply would be one of the they are almost all a by-product of the linking of the global best ways to counter the current food crisis, as it would

field to shelf the world's food now runs through multiple countries and exchanges numerous hands. Farmers in one Finally, the devaluation of the dollar in recent years caused country grow food for hungry mouths in another, selling it to large commodity traders who in turn place it in global exchange markets where prices are largely determined by port bans of certain crops in developing countries, can have far reaching effects on the food security of the rest of ethanol mandates can produce a host of negative effects. problems do develop, such as the current crisis, the participation of numerous nations will hopefully create more avenues for success; if one country fails to produce enough To summarize, the current food crisis was not caused just food for its people, the global market should allow it to easily by one or two factors, but by a confluence of events that avoid massive starvation by purchasing abroad. However, if countries fail to work together it means a worsening of traditional food shortages often arise out of supply short- the crisis as they fight between each other over a commodity more precious than any other. Given this situation, what that has simply not kept up with an even larger demand. does the future hold in the short and medium term concern-

While it is difficult to predict what will happen in the coming months and years, especially given the varied nature of both the causes and effects of the current crisis, there are a number of short and medium term effects that are quite likely. The first, and most important, is that high food prices are here to stay for quite some time. We can understand this just by looking back at the four most widely cited causes of the crisis: Prices could most easily go down if global supply were to quickly catch up with and surpass global demand, if demand were to drop enough for the current supply to suffice, if oil and fertilizer prices dropped significantly, or each in turn.

will not happen quickly because supply can only go up by the next few years. bringing more land under cultivation or increasing yields, neither of which can have an effect in the short run. Con- What about the demand side of the equation? It is extremely food supply is rather "sticky," and a ten percent increase in in supply, according to the IFPRI.<sup>67</sup> Additionally, though there is a lot of unused land around the world which could be brought into agricultural production, as *The Economist* states, "much of the new land is in remote parts of Brazil, quire big investments in roads and other infrastructure, buildings.

Increasing yields in the short term is also problematic. High oil prices are also likely to continue for the foreseeable Ideally, a farmer who wants to get more bang for his buck could simply plant new and improved seed varieties for the next year's harvest, but this is only possible if research and development have been going into new seeds and crops. Unfortunately, as the last century drew to a close, low food prices and the lack of any significant supply shortages since the 1970s caused governments and companies to relax investment in the development of new crops. This was especially prevalent in the developing world where many governments seem to have thought their agricultural problems fixed after the Green Revolution. The result is a world that currently lacks any significantly improved staple crop seeds, and developing them could take anywhere from ten to 15 years, says Bob Zeigler of the International Rice Re-

cause prices and speculation to rapidly drop and avoid meantime, but they alone will not be able to dramatically multiple humanitarian catastrophes. Unfortunately, this improve yields or supply in the next few months or even

cerning the first, one of the upsides of high prices is that unlikely that global food demand will decrease in the short they give incentives to farmers to plant new crops and term given its constant upward pressure for decades. Global produce at an all-out pace, which will eventually increase population growth shows no signs of slowing any time supply. Still, even when farmers decide to produce more soon, and the great majority of those born in the next few wheat, corn, or soy, it usually takes a year or more for their decades will be born in poor and developing states where decisions to come to fruition as fields need to be sown, crops diets are changing the most.<sup>70</sup> Reduced economic growth planted, and harvests collected.<sup>66</sup> Thus, in economic terms worldwide could possibly do the trick, and it certainly seems that the global economy is currently entering a downturn. prices generally only leads to a one to two percent increase but many nations have still been prospering as of late and it would take a multitude of catastrophic events for all developing countries to stop growing (moreover, while lower growth rates would reduce food demand they would also usher in a host of other economic and social problems that Russia, Kazakhstan, the Congo and Sudan: it would re- the world certainly does not want to see). Thus, it seems certain that even more global citizens will demand better which could take decades - and would often lead to the diets in the future and that we are still on the upward slope clearing of precious forest."68 Lastly, bringing new land of the curve. As Daniel W. Basse of the agricultural under cultivation will become more and more difficult as consultancy firm AgResource Company ominously told rapid urbanization continues to sweep the globe, burying the New York Times in April, "Everyone wants to eat like an valuable land underneath parking lots and apartment American on this globe. But if they do, we're going to need another two or three globes to grow it all."71

future, keeping transportation and fertilizer costs high as well. There has not been a significant reduction in oil prices, which would need to happen for transportation to become cheaper, since the 1990s and worries about peak oil and dwindling supply will probably send the price even higher. Fertilizer prices will hopefully drop somewhat in the next few years as more production sites are created (there are currently 50 under construction worldwide) and as supply catches up with demand.72 Still, this will take years, and even when they are finished problems will remain. The use of chemical fertilizers greatly boosts crop yields but often leads to pollution in the form nitrogen runoff, creating "dead sea" zones that kill off local marine wildlife and ecosystems. Despite these negative side-effects they still, search Institute (IRRI) in the Philippines.<sup>69</sup> Increasing however, present humanity's best chance of keeping yields investments in machinery and fertilizers can help in the high and avoiding large supply problems, argues Norman

DISCOURSE
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AUSTIN BLATR STADAK

24 15 DE 30 DISCOURSE

THE FORGOTTEN CRISIS HOW HIGH FOOD PRICES HAVE IMPOVERISHED MILLIONS AND THREATENED GOVERNMENT

ALISTIN REATR STADAK

16 DE 38

25

Borlaug, a leading scientist behind the Green Revolution Though these actions worsen the problem at the global and 1970 Nobel Peace Prize winner: "Without chemical level, governments do not want to be left without enough fertilizer, forget it. The game is over."73

they are here to stay as well. On the one hand there was fierce support for the introduction of the mandates into last year's U.S. energy bill, and on the other there are increasing realizations that ethanol may actually be harming the world more than it helps. Even Secretary of State Condoleeza Rice recently noted the possible negative effects of biofuels on global food prices, but the Bush administration in biofuels mandates, as will be explained later, but high the very least, any change in current policy will not come immediately and it will take time for the political oppointo law. 75

The other factors do not offer much hope either. Global grain reserves are only going to increase if supply runs level do not have to buy food at high international prices. higher than demand or if governments decide to stockpile This may be good news for a large rice exporter like Thaiand not distribute what they buy. We have already seen that land, but is a nightmare for extremely poor net importers the first option will not happen soon, and though some such as Indonesia or Niger.<sup>77,78</sup> Urban populations will governments have begun to hoard food within their own tend to be worse off because they do not produce their own borders it is unlikely that they will choose not to give it to food and are thus net food buyers, though this effect could their citizens for fear of social unrest and violent uprisings. Unfortunately, continued low reserves will probably keep One must be careful, however, in not supposing that all speculators active for the time being. Speculation itself is rural populations and farmers will benefit from the current not likely to stop any time soon, bar a large scale interven- crisis. While the World Bank reports that over 80 percent tion by government authorities around the world to reign of the three billion people living in rural areas in developin some of the more egregious actors. Even this is improb- ing countries are involved in farming in some capacity, and able in the short term given the gap between the political thus might be expected to benefit from high food prices, capital necessary for such action and the lack of a widespread in reality most of these farmers own very small plots of call for intervention. Lastly, governments around the world land and are not net sellers of food. Even for those who interested in keeping the peace at home are likely to contin- are, the size of price jumps often outweighs increases in ue buying large amounts of food at a time from exporters as prices they receive for their crops due to imperfect infor-

food for their people and care more about the immediate effects of the crisis at home than those felt around the rest It is too early right now to determine exactly what the of the world. There is some hope that an appreciating dolfuture holds for biofuels production and mandates in the lar could bring prices down somewhat, but its value would United States and the rest of the world, but it appears that have to rise quite a bit to have any sort of large effect on global prices. All in all, these factors will combine to keep food prices very high in 2008 and 2009, and prices for most crops will remain above 2004 levels until at least 2015.76

High food prices will also continue to be unequal in their effects on the world's population. The poor are undoubtedly those who face the greatest risks, but high prices will is still standing strong behind its current policy for the not affect all poor people in the same way. Those most at time being.<sup>74</sup> The world would benefit from a reduction risk will continue to be the absolute poor who rely on international or state handouts, because higher food prices oil prices will continue to make "sustainable" fuels such as for them truly mean the difference between life and death. ethanol appear as relatively easy and cheap solutions. At Severe malnutrition will be stark realities for many of these people, of whom there are hundreds of millions on the planet. Beyond the ultra-poor, the major divides both at sition to biofuels to be built, especially so soon after many the national and household levels will be between net selin Washington felt hard pressed to put ethanol mandates lers and net buyers of food, as well as between rural and urban populations. Overall, net sellers and exporters will benefit more than buyers and importers because they receive higher prices for their products and at the national be somewhat mitigated by higher incomes in urban areas. well as instituting export bans and other harmful measures. mation flows and other market externalities.<sup>79</sup> One must

also be careful not to think that all poor countries will face similar problems due to urban poverty, because some have much larger urban populations than others - the urban poor constitute half of all poor people in Bolivia, while less than a tenth in Vietnam and Cambodia.<sup>80</sup> Overall, though, those places likely to suffer the most are poor countries that are both net importers of food and have large numbers of urban poor. The effects of the crisis are likely to be smaller on poor populations who rely heavily on local food crops, such as potatoes in the Andes or teff in Ethiopia, rather than those traded internationally because their price and supply are not determined at the global level.<sup>81</sup>

Development programs and plans for poverty reduction around the world will also face immense difficulties as high food prices affect the health and purchasing power of the world's poor. As already noted, the estimated 100 million people worldwide that have been pushed into poverty due to increased food prices significantly negates many of the gains made in poverty reduction in recent decades. Moreover, according to a recent IFPRI report, "the poor... [get] the vast majority of their caloric intake from staple crops and [consume] very little in the way of... [foods] which are rich in essential micronutrients.... [As] prices continue to rise, the poor will experience a worsening of dietary quality...and the very poor will also experience decreased caloric intake."82 One large fear is the effects that deteriorating diets will have on pregnant women, their offspring, and preschool aged children, all of who need proper nutrition to avoid severe health problems in the short and long term.83

Furthermore, the problems will spread beyond just malnutrition and starvation. Due to decreased purchasing power, some poor will remove their children from school in order to work, especially girls, taking from future generations one of their best hopes for escaping poverty. Others may prioritize food above other extremely important areas, such as proper healthcare and immunizations, increasing levels of debilitating diseases in developing countries. Even worse, in order to buy any food at all, many of the world's poor are selling everything they have, including their tools, livestock, and other assets, meaning that recovery, when it comes, will be much more difficult.84 Development in any field, be it education, health, economics, or politics, will simply not happen if people are not healthy and getting enough food to eat, and thus no development program will remain untouched by the current crisis. To take one prominent example, it may be fair to say that the current food crisis will be the final nail in the coffin of achieving the UN's Millennium Development Goals, the first of which alone (to cut in half the percentage of those suffering from hunger and extreme poverty between 1990 and 2015) looks dimmer and dimmer as the effects of the food crisis become more clear.

Another likely problem is that insecurity and unrest will increase in weak and developing states as food prices fail to go down and their citizens become more desperate. Already food riots have spread throughout the world as prices exceed people's ability to pay, seen in the examples of Haiti, Cameroon, and Egypt mentioned earlier. The reason poor states are most likely to experience increased rioting and state insecurity is due to a variety of factors. The main problem is that they contain more poor people who are having the

#### DISCOURSE

ESSAY

ALIST TN REATR STADAK

26

17 DE 30

DISCOURSE

THE FORGOTTEN CRISIS HOW HIGH FOOD PRICES HAVE IMPOVERISHED MILLIONS AND THREATENED GOVERNMENT

18 DE 38

27

hardest time dealing with high food prices. Thus, theirs is the daunting task of avoiding starvation and providing food for those who simply cannot afford enough, in addition to dealing with the negative health and developmental effects of malnutrition and decreased purchasing power among the poor. In comparison, developed states need not worry much about such matters. Furthermore, poor states often lack the institutional and governmental capability to solve these severe problems, and it is probable that at least some will be unable to satisfy their citizens' demands for cheaper food. In these states the likely result will be greater social discontent because, quite frankly, when people cannot eat they get angry. Given that many poor countries also lack strong traditions of non-violent dispute resolution or have recently experienced conflicts, and combined with the fact that the majority of the world's poor have no idea of why prices have risen so much recently and often see the state as the cause of their problems, violent clashes appear in store for some poor and weak states.

The above effects will be magnified by the fact that increasing food costs will create budgetary problems for many poor states, even if they do not face large security threats. The Economist reported earlier this year that developing countries will pay \$50 billion to import cereals alone in 2008, up ten percent from last year. Though a few hundred million is not a big concern to most developed states, it can be a large percentage of most developing countries' budgets. Mauritania, for example, imports 70 percent of the food that its people eat, costing over ten percent of total GDP, and its import expenditures are expected to rise by tens of millions of dollars over the costs of just a few years ago.<sup>85</sup> Costs are rising in other areas as well. In India the government's fertilizer subsidies which cost only \$4 billion in 2004-2005 are expected to run up to \$22 billion this year, an increase of over 400 percent.<sup>86</sup> The problem for these poor countries is that they must try to provide enough food for their people or face significant public backlash, and as the costs of feeding their populations continue to rise many may have to make hard decisions about shifting funds away from other government projects, such as investments in infrastructure, transportation, or education. One example can be seen in how many poor states, such as Egypt and Pakistan, are currently trying to avoid violence and insecurity by increasing food handouts, subsidies, and other social protection programs.87 While these policies depress prices and quell problems in the short term, they can only last so long before cutting into the budgets of other projects. If other solutions are not found soon such actions could have a variety of negative consequences further down the road as vital sectors of societies and economies do not get the attention they need.

One possible effect that has not materialized strongly yet, but shows signs of happening, is an increase in negative perceptions of market liberalization across the globe. Despite the beneficial effects that globalization has had for the global economy in the past few decades, attitudes toward globalization have been increasingly negative in recent years in many developed and developing countries, and it will be very difficult for the proponents of liberalization to argue that the globalization of the food market did not play a large role in facilitating the current crisis.<sup>88</sup> While most newspaper articles and analyses of the crisis originally just touched on the first four factors mentioned earlier as causes of the

Insecurity and conflict may become more likely in poor states without the resources to feed their people or the authority to police them, and many poor countries will face budgetary problems due to high food costs.

AUSTIN BLATR STADA

crisis, more and more are beginning to mention the possible roll of speculation in raising prices.<sup>89</sup> Many governments and politicians are also voicing louder concern, such as when French Agriculture Minister Michel Barnier stated in April that "We must not leave the vital issue of feeding people to the mercy of market laws and international speculation," and warned against "too much trust in the free market."90 In developing countries too, as governments try to shift the blame for rising prices away from themselves and towards other factors, liberalization and globalization could become easy prey. It would be unfortunate and shortsighted, though, if a large increase in protectionist attitudes and policies were to come from the world's current food problems, as they often raise prices and rarely have wide reaching benefits.

Though not guaranteed, a whole range of other effects is possible as well. Migration could increase dramatically in areas of the globe where countries that do not have enough food border those that do. One example is already playing out on the Mauritania-Mali border where thousands of Mauritanian men have crossed over to find jobs and food for their starving families back home.91 This example demonstrates plainly how perceived differences in job and food opportunities do not have to be very large for migration to occur, as both countries are extremely poor. Another possible effect that has received almost no attention is the impact of higher food costs on small and local businesses in poor countries.92 Employers with just a few employees are likely to find it increasingly difficult to pay their staff as food and energy costs rise, which could spell disaster for the millions of such operations around the globe. One huge question this raises is how the global food crisis is going to affect the ability of tens of millions of micro-credit borrowers in poor states to repay their loans as food prices shoot up, and what effects this may have on the global micro-credit industry. It is possible that loans could help the poor pay for food that they would currently be unable to purchase, helping to mitigate would-be disasters. It is equally likely, though, that many poor people, having borrowed to purchase food, may find themselves unable to pay back loans, causing default rates to increase dramatically and push millions deeper into poverty.

AUSTIN BLATR STADAK

28 19 DE 30

In review, high food prices will remain for many years as global supply slowly catches up with demand. On the supply side, farmers around the world will begin to plant more, more land will be brought into cultivation, and new technologies will be employed, but none of these will make large differences for a few years at the very least. Global demand will increase as the populations of developing countries grow, high oil prices will keep transportation costs expensive, and fertilizer prices will remain high in the short run until current supply shortages are balanced out. Biofuels subsidies are also likely to continue for the time being, which will help keep grain prices high, and it will not help that grain reserves are unlikely to increase at a global level, that market speculation shows no signs of slowing, or that many developing countries with weak bureaucracies see easy relief in deleterious export bans and price controls. In addition, the absolute poor will continue to be the most affected by the crisis, and net food importers and buyers will face large problems while net exporters and sellers gain at both the macroeconomic and household levels. Development programs the world over are likely to experience difficulties as the food crisis filters into their work. Insecurity and conflict may become more likely in poor states without the resources to feed their people or the authority to police them, and many poor countries will face budgetary problems due to high food costs. Protectionist attitudes and policies may become more popular if liberalization and speculation are seen as the major causes of the current crisis, and migration could increase around the world as people move in search of cheaper food. A final worry that must be studied more is the effect of the food crisis on popular micro-credit businesses.

# How to Fix the Food Crisis

It should be obvious by now just how large of a problem the global food crisis is. Given its magnitude, it should also be obvious that solving it will not be a quick fix. The goal at this point is to stabilize current prices and work to bring them back down to reasonable levels in coming months and years, in addition to restructuring international food markets and financing efforts to increase global food supply. The global nature of the problem will require international cooperation among governments and a concerted political will to make fundamental changes in global food policy. Changes are also necessary at the personal level as the world comes to grips with the fact that not all humans will be able to eat like Americans, including Americans themselves. I will not try to explain all the possible solutions that should be enacted to fix the food crisis, but will touch on some of the most important and necessary.

First and foremost, the world's rich governments and those countries benefiting from the current crisis must provide the emergency funding needed by humanitarian organizations and poor country governments. The United States should be commended for pledging nearly \$1 billion towards alleviating the food crisis, but rhetoric alone will solve nothing. The U.S. and European governments need to stop saying that they will provide money and actually start giving it to the organizations that need it. Along these lines, Saudi Arabia recently gave the WFP half a billion dollars in emergency funding, and the World Bank

DISCOURSE

THE FORGOTTEN CRISIS HOW HIGH FOOD PRICES HAVE IMPOVERISHED MILLIONS AND THREATENED GOVERNMENT

AUSTIN BLATR STADA

29 20 DE 30

will be doubling agricultural lending to Africa this year to raises food prices for other countries and consumers who needed to ensure that humanitarian crises will be avoided in the coming months. In addition, as the IFPRI notes, humanitarian agencies are usually good at responding to natural disasters and short term emergencies, but they will slow onset disasters like the current one."94

Second, harmful biofuels subsidies and mandates should be reexamined and removed both in the United States and Europe due to their negative effects both on the environment and global food prices. Proponents of biofuels say that they are necessary both to improve energy independence and protect the environment. However, given the current ways in which they are produced, neither of these supposed effects is happening. As Indian economist Swaminathan S. Anklesaria Aiyar explains, "Ironically, even if the US and Europe meet their biofuel targets, these will meet only six percent of their transport fuel needs. So, mandated biofuel use cannot give the West independence released in the respected journal Science found that biofuels production actually creates *more* greenhouse gas emissions than gasoline production - doubling the emissions of gasoline production over 30 years from corn-based ethanol and increasing them 50 percent for biofuels made from switch-grass.96 Given these facts, and the previously demonstrated ways in which biofuels push up the price of grain, mandates for these supposedly "clean fuels" should either be shifted to only come from waste sources or be scrapped altogether. Doing so could bring up to a twenty percent decrease in the price of maize and a ten percent decrease in the price of wheat, according to the IFPRI.97

Third, developing countries must reduce or remove their growing number of export bans and price controls. It is understandable that these countries wish to ensure food security for their citizens, and want to keep food prices

over \$800 million.<sup>93</sup> These are the types of actions that are may be even worse off. It could even end up hurting the countries that institute the bans if they need to buy food internationally in the future and will face higher costs due to their own actions.98 The global food market will work much more effectively if all countries increase their need to reform their policies to act more decisively against integration instead of further isolating themselves. Price controls are a problem because they artificially depress prices and remove the incentives for farmers to grow more to satisfy raging demand. Though consumers are happy because of cheaper food, failing to increase supply will cause prices to remain high in the long run and will not benefit the billions who depend on small scale farming in developing countries.99 In addition, blanket price controls benefit both those who need help paying for food as well as those who do not, creating wasteful economic distortions.

Instead, policies should include increasing social protection programs, expanding healthcare, and reducing import restraints. In terms of subsidies, it is better to subsidize poor peoples' incomes rather than food prices because doing so from Middle East oil supplies."95 Moreover, a recent study allows states to not only improve incentives for farmers to grow more food and thereby increase rural incomes, but also avoids paying for cheaper food for the rich, all while still allowing the poor to afford food.<sup>100</sup> Also, a wide variety of food and cash transfer programs already exist in many developing countries and these need to be scaled up to deal with the current crisis. In particular, "[they] should target the poorest people, with a focus on early childhood nutrition, regions in distress, school feeding with take-home rations, and food and cash for work," according to a recent IFPRI report.<sup>101</sup> Healthcare and nutrition programs must also be expanded, especially for at-risk groups such as pregnant mothers and young children in order to avoid harmful long term effects of malnutrition. National governments should work to better coordinate funding with humanitarian agencies and implementation with NGOs in this area. Getting rid of import tariffs and restrictions would help by reducing the price of imported food and down because many of their people are poor and cannot thereby lowering the costs passed on to consumers. Howafford expensive food. But export bans and price controls ever, any astute reader would be correct to ask how any are simply not the best way to achieve this goal. As already government could increase social protection programs mentioned, when a number of countries restrict their grain while reducing tariff revenue, especially in poor states that exports it artificially reduces global supply and needlessly lack large budgets and efficient bureaucracies. The answer

### DISCOURSE

ESSAY

AUSTIN BLAIR SIADAK

21 OF 30

30

DISCOURSE

THE FORGOTTEN CRISIS HOW HIGH FOOD PRICES HAVE IMPOVERISHED MILLIONS AND THREATENED GOVERNMENTS AUSTIN BLAIR SIADAK

22 OF 30

31

is that these options may require reducing subsidies or expenses in other areas and will not be viable everywhere, because providing income subsidies necessitates a competent civil service that many poor countries lack. Where they are not possible, any price controls should be short-term and directed at certain foods more popular among the poor.<sup>102</sup> Even where such programs are used, any increased food or cash subsidies must be temporary and localized to ensure that consumers do not come to depend on them and to reduce market distortions.<sup>103</sup> Lastly, it is important to note that countries that do not already have social protection programs to scale up will not be able to create them fast enough to do much for the current crisis, and these are the places that will need the most donor assistance in the short term.<sup>104</sup>

Fourth, developed countries must make large changes in their food policies as well. As bad as the current crisis is, it presents an amazing period of opportunity to fix many of the deep-seated problems in the global food market. As the *Washington Post* explains, though trade in food has been globalized and liberalized to a significant degree in recent decades,

"[it] never became the kind of well-honed machine that has made the price of manufactured goods such as personal computers and flat-screen TVs increasingly similar worldwide. With food, significant subsidies and other barriers meant to protect farmers...have distorted the real price of food globally, economists say, preventing the market from normal price adjustments as global demand has climbed."<sup>105</sup>

While developed countries continued protecting their farmers, a wide range of developing states following recommendations of the "Washington Consensus" in the 1990s reduced price fixing policies and slowed investment in agricultural production, leaving them vulnerable to events like the current crisis.<sup>106</sup> Now, however, as prices head constantly upward and countries around the globe feel the pinch it appears as if there may be enough support and political will to make serious changes in global food trade and policy to fix these imbalances.

The time is ripe to remove or significantly reduce agricultural subsidies to make the global food market more competitive and more just.

Developed countries, predominantly the United States and European nations, should take the current opportunity of high crop prices to remove many of their disastrous agricultural subsidies. The United States currently doles out billions of dollars a year to farmers, and through its Common Agricultural Policy (CAP) the European Union spends over 40 percent of its budget on agricultural subsidies. In addition, the EU has enormously high import tariffs that restrict agricultural imports from many developing countries.107 Unfortunately these policies result in artificially high incentives to produce in high-cost developed countries, who are often net food exporters as a result, making food imports for poorer countries more expensive during shortages and also making developing country exports less competitive in developed markets.<sup>108</sup> This puts poor farmers in these countries at a disadvantage and discourages growth and development. Now that farmers in developed countries are receiving the highest prices they have seen in decades and will not face severe hardships if subsidies are thrown out, the time is ripe to remove or significantly reduce agricultural subsidies to make the global food market more competitive and more just. These issues should be addressed as part of a larger goal of completing the current Doha round of trade talks.

Fifth, it is also clear that something should be done concerning rampant market volatility and speculation. Decreasing protectionist policies in both developed and developing countries should help remove distortions that are prone to cause wild market swings, but it is less clear as to what exactly should be done to reduce the negative effects of speculation. In addition to causing global food prices to rise faster than they might otherwise, extensive speculation on grain futures leaves many farmers less certain about their contracts and more vulnerable to large losses. Some farmers who have lost faith in traditional organizations such as the Chicago Board of Trade to provide financial security have started to enter into contracts with private financial firms, which provide them with more security but also make tallying the total market supply more difficult, a factor that could make prices even more volatile. While many blame rocky markets on the huge investments in commodities from hedge funds, and see limiting their involvement as a possible solution, hedge fund capital adds liquidity to the market and should theoretically make prices less volatile.<sup>109</sup> For the time being no one knows exactly how to deal with speculation problems and figuring out the nuts and bolts is a complex and often boring task. Some key steps should include increasing market transparency, monitoring speculative capital, and getting a collective agreement from major grain producers to pool a medium-sized international grain reserve that could be used to calm markets and lower prices when they greatly exceed those that markets fundamentals would dictate.<sup>110</sup>

Sixth, and perhaps most important from a long term perspective, there must be significant short, medium and long term investment increases in agricultural development and small farmers in developing countries. Most global development agencies have shifted their focus away from agriculture in recent decades, instead focusing on more popular and visible issues such as HIV/AIDS, malaria, or armed conflicts, but there are a number of reasons why they should begin to invest heavily again in agricultural programs. Moreover, there are many reasons why they should work to create a future global food market

AUSTIN BLAIR SIADAK

32 23 DE 30 DISCOURSE

THE FORGOTTEN CRISIS HOW HIGH FOOD PRICES HAVE IMPOVERISHED MILLIONS AND THREATENED GOVERNMENTS AUSTIN BLAIR SIADAK

24 OF 30

33

supplied to a large extent by the hundreds of millions of small farmers in developing countries. (It is useful here to quote a recent *Economist* article at length):

"First, it would reduce poverty: three-quarters of those making do on \$1 a day live in the countryside and depend on the health of smallholder farming. Next, it might help the environment: those smallholders manage a disproportionate share of the world's water and vegetation cover, so raising their productivity on existing land would be environment-tally friendlier than cutting down the rainforest. And it should be efficient: in terms of returns on investment, it would be to raise yields in Africa from two tonnes per hectare to four than it would be to raise yields in Europe from eight tonnes to ten. The opportunities are greater and the law of diminishing returns has not set in."<sup>111</sup>

In addition, it could possibly reduce harmful urbanization by making rural life in poor countries more profitable and encouraging many slum dwellers to migrate back to the countryside, relieving deadly pressure on many growing "megacities" around the world.

Achieving this goal is much easier said than done, but there are concrete actions that should be taken in the short and long term. In the early stages, small farmers need increased access to seeds, fertilizers, and credit, and they should at least temporarily be guaranteed minimum prices for their products in order to incentivize increased production. In the past, these combined policies have been shown to vastly increase agricultural output in a variety of settings. While distribution of necessary inputs may need to be subsidized in some areas, the goal should be to also include the private sector from the outset and gradually shift to more sustainable market based programs.<sup>112</sup> A new \$1.7 billion project by the UN's Food and Agriculture Organization to distribute seeds to farmers in developing countries is one example that should help greatly, but national governments and other branches of the UN will need to work together to maximize these and other funds.<sup>113</sup> In addition, banking and finance actors, especially micro-credit loans, will need to play an important role and should be dequately included into the organization of organization of projects.

Further down the road other important long term investments need to be made. One hugely important sector is irrigation. As advancing climate change and growing populations stretch already strained water supplies even further, irrigation will have to both expand and become more effective, requiring billions of dollars in funding. In addition, more agricultural research and development in everything from seeds, to fertilizers, to storage mechanisms, to myriad other areas is desperately needed in order to achieve desired production increases, and will likely require sums reaching into the billions as well. This is an area where developed countries and aid organizations will need to play a large role because few developing states have the capabilities necessary for this type and scale of work. New productivity boosting innovations will also need to be employed as they arise, though affordability must always be considered because small farmers in poor countries will never be able to afford \$500,000 combines or other expensive technologies. Many

prominent figures have called for the use of genetically modified foods to play a large role in reshaping global agriculture, but it is still too early to determine whether they would have overall beneficial or harmful effects and they cannot be counted on alone. In the end it is necessary to keep in mind that because of the diversity of situations that different countries face the goal must not be to create a one-size-fits-all set of actions. Rather, local ownership of the process should and must be encouraged, though with a great deal of outside help.

As such, much of the investment in all of these projects will have to come from developing country governments themselves and they should plan to budget large levels of funds for agricultural projects that focus on the long term. Of course, aid organizations and developed states should provide large sums as well, as poor states lack the sufficient capital to achieve success alone and lower food prices are in the interests of all. Importantly, private sector finance should not be forgotten, as it can often exceed the levels and duration of available public funding. But increased agricultural development funds will not accomplish much if workers are sick or incapacitated, if roads, electricity, and communication access remain in deplorable conditions, or if farmers don't know the best techniques and have nowhere to store their crops once they have been harvested. Thus, large rural and urban investments will have to also be made in areas such as health, education communications, transportation, and infrastructure, in addition to those normally associated with agricultural and farming.<sup>114</sup>

# **Conclusion**

Regardless of which options governments and international agencies take to counter the current crisis, for many people it may be too little too late. After decades of cheap food, high prices have ripped the seams of poverty and inequality ever wider across the globe, leaving hundreds of millions at risk of malnutrition or starvation and rolling back many of the recent gains made in poverty reduction. Even for the global middle classes who do not face mortal danger, the food crisis means a significant change in lifestyle that will push many back into poverty while hampering the efforts of those working to combat such outcomes. In both cause and effect the current crisis is global in every sense of the word, and it will require coordinated international effort and political will to solve. Moreover, this will not be a short-lived problem that simply fades away after a few months; it will take many years to fix global supply imbalances and thus any solutions need long term attention. Merely increasing food aid, while necessary, will not change the many systemic flaws that helped cause high prices, and without significant reform the current system will only further widen the gap between the global rich and poor, at both the local and national levels. If catastrophe is to be avoided much change will need to occur in the countries that house the world's poorest and most vulnerable people, from removing protectionist barriers to investing in poor farmers. Additionally, however, developed countries must take greater responsibility for the agricultural subsidies, market speculation, and misguided policies within their own borders that reduce supply, raise prices,

DISCOURSE	ESSAY	AUSTIN BLAIR SIADAK	34	DISCOURSE	THE FORGOTTEN CRISIS	AUSTIN BLAIR SIADAK	35
			25 OF 30		IMPOVERISHED MILLIONS AND THREATENED GOVERNMENTS		26 DF 30

While the world watches with rapt attention as the global financial crisis unfolds it seems to have quickly forgotten the food crisis, despite the fact that the two are intertwined in complex ways.

and worsen the problem at the global level. The food crisis has already caused significant damage around the world and will assuredly create greater problems in the years to come, yet there is hope that it may be the impetus needed to create a more equitable and just global food system. However, to achieve this goal the myriad actors involved, from national governments, to the United Nations, to numerous other international organizations and major food producers, must come to agreement soon on how to move from mere ideas to implementation. If they don't we will be left with, in the words of one expert, "a lot of great intentions, but few results."<sup>115</sup> The world's poor certainly deserve better than that.

# Addendum

Since September a lot has changed. The onset of the global financial crisis has dampened some aspects of the food crisis, such as high fuel and food prices, while worsening others, such as lower personal incomes, unemployment, and agricultural protectionism. Unfortunately for the poor this new crisis has only compounded their overall problems. As of December 2008 the prices of most major cereal crops had dropped 30-40 percent from their peak highs of last year and nearly all food prices have gone down significantly.<sup>116</sup> This has largely been due to a steep decrease in the price of fuel since the middle of 2008 - a barrel of oil that was selling for over \$140 last May cost less than \$40 in late February - that has subsequently reduced the costs of food production and transportation.117 Despite this good news many problems remain. Prices for crops such as maize and wheat remain well above the levels of three or four years ago, meaning that they are still a significant burden for many of the world's poor.<sup>118</sup> For more developed countries, a recent report by the Institute for Agricultural and Trade Policy states that "The fall in commodity prices since July has not yet been transmitted to supermarket prices and it is unlikely that there will be a corresponding food retail price decrease in 2009."119 Moreover, fuel prices will eventually rise again, bringing the costs of food up with them. As the head of the UN's Food and Agricultural Organization stated late last year, "The reduction in food prices should not be interpreted as the end of the food crisis."120

Additionally, the distribution of price decreases and their effect has been unequal. "In many countries the international price change is not quickly passed on to the domestic markets," says Joachim von Braun, noting that prices in most African countries are still well above traditional level.<sup>121</sup>This is often due to differing local conditions, such as natural time delays between purchase and delivery, the quality of supply routes and distribution programs, varying levels of import and export tariffs, and corruption. Cheaper prices have been great news for net food importing countries but have had a negative effect on net food exporters. In regions affected by conflict or political and economic instability – the very places that need cheap food the most – prices remain high: in Hati the price of rice was double the global market value last fall and overall food prices in Afghanistan and Palestine were still 40 percent above 2007 levels in December.<sup>122</sup>

But food prices aren't the only important factor to consider. Capital investments in agriculture are vital for supply growth, increasing stockpiles and food security, yet in the face of the financial crisis these investments are at risk of setbacks. Small farmers are unlikely to get loans for investments due to reduced bank lending and many governments face immense macroeconomic and budgetary problems that will stymie efforts to improve agricultural growth.<sup>123</sup> Poor countries will undoubtedly fare worst, even though they are the ones who need to increase investment and productivity the most. In the meantime, many farmers rich and poor, big and small are cutting back on planting due to decreasing food prices and pessimistic economic outlooks for the future.<sup>124</sup> Such actions will only exacerbate supply shortages. Global food demand could drop somewhat as the financial crisis drives incomes down and unemployment up but population growth promises to keep upward pressure in place. As such, the supply-demand imbalance and supply distribution will continue to be significant problems. At the same time, speculation in food markets continues to run high, due in part to the fact that investors wary of other poorperforming sectors have pumped more money into commodities futures. Protectionist agricultural policies remain a popular tool for governments around the world, especially as the financial crisis has spread further and deeper, with China enacting a range of new exports tariffs on fertilizer in the fall. For their part, developed countries still show no hint of reducing their own inflated agricultural subsidies and the European Union has faced recent criticism for reinstating some dairy and poultry subsidies.125

Some substantive progress has been made at the international level in combating the food crisis but more must be done. Following the Rome Summit in May 2008 the World Bank's Global Food Crisis Response Program (GFRP) "put half a billion dollars on the ground...with about 60 percent of the amount in the form of seeds and fertilizer, including 250,000 tons of fertilizer and 1,500 tons of seed for 2.4 million small farms in the Kyrgyz Republic, Tajikistan, Somalia, Niger, Ethiopia and Togo at crucial times of the agriculture calendar."<sup>126</sup> Other funds have been used to support the budgets of countries who have removed food taxes and tariffs and to extend safety net programs for children and pregnant women.<sup>127</sup> Despite these actions only twenty percent of billions of dollars committed in Rome have been dispersed.<sup>128</sup> In January another high-level conference on the food crisis was held in Madrid, where over one hundred countries promised further

ALIST TN REATR STADAK

36 27 DE 30

DISCOURSE

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THE FORGOTTEN CRISIS HOW HIGH FOOD PRICES HAVE TMPOVERTSHED MTLL TONS AND THREATENED GOVERNMENT

ALISTIN REATR STADAK

37 28 DE 38

monetary aid and commitment to promoting small farmers and agricultural productivity in developing countries. However, some participants noted that "no substantial discussion took place' and there was 'no real confrontation of the problem' of the current model of agricultural production."129 Thus, solutions to the problems of high food prices, unequal food distribution, protectionism, and long-term supply, demand and productivity issues remain elusive.

ESSAY

We are not out of the woods yet. While the world watches with rapt attention as the global financial crisis unfolds it seems to have quickly forgotten the food crisis, despite the fact that the two are intertwined in complex ways. Commodity prices have dropped significantly since last year's highs, thanks in no small part to a global financial meltdown, but this new crisis has created gravely serious troubles that continue to threaten the availability and price of food around the globe. From the Ukraine to the United States, Chile to China economic slowdowns have pushed tens of millions out of work and reduced incomes, in the majority of cases outweighing any benefit offered by cheaper food. Investments in agriculture are being cut, despite the longterm negative effects this will cause, and protectionism will continue to disrupt food distribution and keep prices unnecessarily high. Many commitments and immense sums have been promised to deal with the global food crisis, but few governments seem willing to disperse these funds as global financial problems grow ever larger. While the current financial crisis must be addressed effectively, it would be a disastrous mistake to forget about the food crisis. At this point significant dilemmas will remain even after the major problems have been addressed; for example the effects of poor nutrition, especially among children, will continue to reverberate long after the crisis has ended.130 Unfortunately, my final words written ten months ago still apply today: governmental and international actors need to delineate responsibilities and begin acting on their promises. Intentions are certainly great, but results thus far have been anything but.

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38 29 DE 30 DISCOURSE

THE FORGOTTEN CRISIS HOW HIGH FOOD PRICES HAVE IMPOVERISHED MILLIONS AND THREATENED GOVERNMENT

30 DE 30

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ESSAY

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39

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