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Abstract: The article examines the developing crisis created by dramatic increases in global food prices. Basic food crops such as rice and wheat have almost doubled in price in 2008. There have been riots in countries including Haiti and Egypt. Despite the rise in prices, farmers have not planted more crops, due to imbalances in the world agricultural economy such as high fertilizer prices and a lack of more arable land in many countries. Policies to benefit small farmers would be helpful.

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Food and the poor

The new face of hunger

Global food shortages have taken everyone by surprise. What is to be done?

SAMAKE BAKARY sells rice from wooden basins at Abobote market in the northern suburbs of Abidjan in Côte d'Ivoire. He points to a bowl of broken Thai rice which, at 400 CFA francs (roughly \$1) per kilogram, is the most popular variety. On a good day he used to sell 150 kilos. Now he is lucky to sell half that. "People ask the price and go away without buying anything," he complains. In early April they went away and rioted: two days of violence persuaded the government to postpone planned elections.

"World agriculture has entered a new, unsustainable and politically risky period," says Joachim von Braun, the head of the International Food Policy Research Institute (IFPRI) in Washington, DC. To prove it, food riots have erupted in countries all along the equator. In Haiti, protesters chanting "We're hungry" forced the prime minister to resign; 24 people were killed in riots in Cameroon; Egypt's president ordered the army to start baking bread; the Philippines made hoarding rice punishable by life imprisonment. "It's an explosive situation and threatens political stability," worries Jean-Louis Billon, president of Côte d'Ivoire's chamber of commerce.

Last year wheat prices rose 77% and rice 16% (see chart). These were some of the sharpest rises in food prices ever. But this year the speed of change has accelerated. Since January, rice

prices have soared 141%; the price of one variety of wheat shot up 25% in a day. Some 40km outside Abidjan, Mariam Kone, who grows sweet potatoes, okra and maize but feeds her family on imported rice, laments: "Rice is very expensive, but we don't know why."

The prices mainly reflect changes in demand--not problems of supply, such as harvest failure. The changes include the gentle upward pressure from people in China and India eating more grain and meat as they grow rich and the sudden, voracious appetites of western biofuels programmes, which convert cereals into fuel. This year the share of the maize (corn) crop going into ethanol in America has risen and the European Union is implementing its own biofuels targets. To make matters worse, more febrile behaviour seems to be influencing markets: export quotas by large grain producers, rumours of panic-buying by grain importers, money from hedge funds looking for new markets.

Such shifts have not been matched by comparable changes on the farm. This is partly because they cannot be: farmers always take a while to respond. It is also because governments have softened the impact of price rises on domestic markets, muffling the signals that would otherwise have encouraged farmers to grow more food. Of 58 countries whose reactions are tracked by the World Bank, 48 have imposed price controls, consumer subsidies, export restrictions or lower tariffs.

But the food scare of 2008, severe as it is, is only a symptom of a broader problem. The surge in food prices has ended 30 years in which food was cheap, farming was subsidised in rich countries and international food markets were wildly distorted. Eventually, no doubt, farmers will respond to higher prices by growing more and a new equilibrium will be established. If all goes well, food will be affordable again without the subsidies, dumping and distortions of the earlier period. But at the moment, agriculture has been caught in limbo. The era of cheap food is over. The transition to a new equilibrium is proving costlier, more prolonged and much more painful than anyone had expected.

"We are the canary in the mine," says Josette Sheeran, the head of the UN's World Food Programme, the largest distributor of food aid. Usually, a food crisis is clear and localised. The harvest fails, often because of war or strife, and the burden in the affected region falls heavily on the poorest. This crisis is different. It is occurring in many countries simultaneously, the first time that has happened since the early 1970s. And it is affecting people not usually hit by famines. "For the middle classes," says Ms Sheeran, "it means cutting out medical care. For those on \$2 a day, it means cutting out meat and taking the children out of school. For those on \$1 a day, it means cutting out meat and vegetables and eating only cereals. And for those on 50 cents a day, it means total disaster." The poorest are selling their animals, tools, the tin roof over their heads--making recovery, when it comes, much harder.

Because the problem is not yet reflected in national statistics, its scale is hard to judge. The effect on the poor will depend on whether they are net buyers of food or net sellers (see box); for some net buyers, the price rises may be enough to turn them into sellers. But by almost any measure, the human suffering is likely to be vast. In El Salvador the poor are eating only half as much food as they were a year ago. Afghans are now spending half their income on food, up from a tenth in 2006.

On a conservative estimate, food-price rises may reduce the spending power of the urban poor and country people who buy their own food by 20% (in some regions, prices are rising by far more). Just over 1 billion people live on \$1 a day, the benchmark of absolute poverty; 1.5 billion live on \$1 to \$2 a day. Bob Zoellick, the president of the World Bank, reckons that food inflation could push at least 100m people into poverty, wiping out all the gains the poorest billion have made during almost a decade of economic growth.

Small is fairly beautiful

In the short run, humanitarian aid, social-protection programmes and trade policies will determine how well the world copes with these problems. But in the medium term the question is different: where does the world get more food from? If the extra supplies come mainly from

large farmers in America, Europe and other big producers, then the new equilibrium may end up looking much like the old one, with world food depending on a small number of suppliers and--possibly--trade distortions and food dumping. So far, farmers in rich countries have indeed responded. America's winter wheat plantings are up 4% and the spring-sown area is likely to rise more. The Food and Agriculture Organisation forecasts that the wheat harvest in the European Union will rise 13%.

Ideally, a big part of the supply response would come from the world's 450m smallholders in developing countries, people who farm just a few acres. There are three reasons why this would be desirable. 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 environmentally friendlier than cutting down the rainforest. And it should be efficient: in terms of returns on investment, it would be easier to boost grain 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.

Unfortunately, no smallholder bonanza is yet happening. In parts of east Africa, farmers are cutting back on the area planted, mostly because they cannot afford fertilisers (driven by oil, fertiliser prices have soared, too). This reaction is not universal. India is forecasting a record cereal harvest; South African planting is up 8% this year. Still, some anecdotal evidence, plus the general increase in food prices, suggests that smallholders are not responding enough. "In a perfect world," says a recent IFPRI report, "the response to higher prices is higher output. In the real world, however, this isn't always the case." Farming in emerging markets is riddled with market failures and does not react to price signals as other businesses do.

This is true to a certain extent of farming in general. If you own a toy factory, or an oilfield, and the price of toys or oil rises, you run the factory night and day, or turn the taps full on. But it always takes a season to grow more food, which is why farm prices everywhere tend to be "sticky": a 10% increase in prices leads to a 1% increase in output. But the food crisis of 2008 suggests farm prices in developing countries may be stickier than that.

The quickest way to increase your crop is to plant more. But in the short run there is only a limited amount of fallow land easily available. (The substantial unused acreage in Brazil and Russia will take a decade or so to get ready.) For some crops--notably rice in East Asia--the amount of good, productive land is actually falling, buried under the concrete of expanding cities. In other words, food increases now need to come mainly from higher yields.

Yields cannot be switched on and off like a tap. Spreading extra fertiliser or buying new machinery helps. But higher yields also need better irrigation and fancier seeds. The time lag between dreaming up a new seed and growing it commercially in the field is ten to 15 years, says Bob Zeigler of the International Rice Research Institute (IRRI) in the Philippines. Even if a farmer wanted to plant something more productive this year, and could afford to, he could not--unless research work had been going on for years.

It has not. Most agricultural research in developing countries is financed by governments. In the 1980s, governments started to reduce green-revolutionary spending, either out of complacency (believing the problem of food had been licked), or because they preferred to involve the private sector. But many of the private firms brought in to replace state researchers turned out to be rent-seeking monopolists. And in the 1980s and 1990s huge farm surpluses from the rich world were being dumped on markets, depressing prices and returns on investment. Spending on farming as a share of total public spending in developing countries fell by half between 1980 and 2004.

This decline has had a slow, inevitable impact. Creating a new seed is a bit like designing a flu vaccine: you need to keep updating it, or pests and disease will negate its effectiveness. When the rice variety IR8 was introduced in 1966, it produced almost ten tonnes per hectare; now it

yields barely seven. In developing countries between the 1960s and 1980s, yields of the main cereal crops increased by 3-6% a year. Now annual growth is down to 1-2%, below the increase in demand (see chart on previous page). "We're paying the price for 15 years of neglect," says Mr Zeigler.

Alterations in the structure of farming have exacerbated the effects of underinvestment. Farming is just one part of a food chain that stretches from fertiliser and seed companies at one end to supermarkets at the other. In the past, the end of the chain nearest consumers was less important. Food policy meant improving links between farmers and suppliers. The Green Revolution of the 1960s, for example, provided new seeds and subsidised fertilisers. Malawi is doing something similar now. But over the past decade, the other end of the chain has come to matter more. The main reason why Kenyan and Ethiopian farmers planted less this year was not just that fertilisers were expensive, but that farmers could not get credit to finance purchases. Supermarkets are also more important to farmers than they used to be, accounting for half or more of food sales, even in many developing countries.

Success in patches

In theory, the growing importance of traders and supermarkets ought to make farmers more responsive to changes in prices and consumer tastes. In some places, that is the case. But supermarkets need uniform quality, minimum large quantities and high standards of hygiene, which the average smallholder in a poor country is ill equipped to provide. So traders and supermarkets may benefit commercial farmers more than smallholders.

To make matters worse, smallholdings are fragmenting in many countries. Because of population growth and the loss of farmland, the average farm size in China and Bangladesh has fallen from about 1.5 hectares in the 1970s to barely 0.5 hectares now; in Ethiopia and Malawi, it fell from 1.2 hectares to 0.8 in the 1990s. By and large, the smaller the farm, the greater the burden of the cost of doing business with big retailers. Smaller smallholders are also at a disadvantage in getting loans, new seeds and other innovations on which higher yields depend.

Such bottlenecks and market failures make it harder for smallholders to respond to higher prices, even without the multiple distortions that governments also introduce into world food markets. They mean the transition to a new equilibrium will be prolonged and painful. But they do not mean it will not happen. Lennart Båge, the head of the International Fund for Agricultural Development, a UN agency in Rome, argues that if farmers can keep the higher prices, they will overcome the problems that beset them. As he points out, India feeds 17% of the world's people on less than 5% of the world's water and 3% of its farmland--and, along with China, is seeing its cereal crop rise this year. Similar success stories are cropping up, in patches.

Despite East Africa's problems, Ethiopia this week opened its own commodity exchange, a rare thing on the continent, in an attempt to improve the markets that connect farmers and traders. The spread of mobile phones also relays market information more widely. In landlocked Malawi, it costs almost as much to ship maize to and from world markets as it does to grow it locally, so Malawian farmers have found it hard to export their surplus even with prices high. But partly because of the political disaster of Zimbabwe, regional markets are now springing up out of nowhere in southern Africa--and Malawi's farmers are selling there.

Moreover, technological improvements are still pushing through the neglected soil. Mr Zeigler reckons IRRI has enough tinkering in the pipeline to increase yields by one or two tonnes a hectare. And if European countries relax their hostility to genetically modified organisms, crop scientists could do things--such as redesigning photosynthesis in plants--which could boost yields 50% or more.

Between November 2007 and February 2008, rice exports from Thailand (the world's biggest exporter) were running at 1m tonnes a month--an unprecedented bonanza. But for even for producers and traders, the blessing was mixed. Some farmers sold their crop before prices soared. Millers tried to keep supplies back, waiting for higher prices. The government capped

exports below last year's levels. The secretary-general of the Thai rice exporters' association told IRRI that "We don't know where the 2007 harvest is." Vichai Sriprasert, a big exporter, describes the Thai rice market using language that, elsewhere, is literally true. "This is a crucial time," he says. "It will tell the story of who will survive and who will not survive."

GRAPH: Shooting up

GRAPH: Diminishing returns

PHOTO (COLOR): A burden to afford

PHOTO (COLOR)

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