Food is our most basic need, the very stuff of life.

According to an ancient Indian Upanishad, “All that is born is born of anna [food]. Whatever exists on earth is born of anna, lives on anna, and in the end merges into anna. Anna indeed is the first born amongst all beings.”

More than 3.5 million people starved to death in the Bengal famine of 1943. Twenty million were directly affected. Food grains were appropriated forcefully from the peasants under a colonial system of rent collection. Export of food grains continued in spite of the fact that people were going hungry. As the Bengali writer Kali Charan Ghosh reports, 80,000 tons of food grain were exported from Bengal in 1943, just before the famine. At the time, India was being used as a supply base for the British military. “Huge exports were allowed to feed the
people of other lands, while the shadow of famine was hourly lengthening on the Indian horizon.\(^2\)

More than one-fifth of India's national output was appropriated for war supplies. The starving Bengal peasants gave up over two-thirds of the food they produced, leading their debt to double. This, coupled with speculation, hoarding, and profiteering by traders, led to skyrocketing prices. The poor of Bengal paid for the empire’s war through hunger and starvation—and the “funeral march of the Bengal peasants, fishermen, and Artisans.”\(^3\)

Dispossessed peasants moved to Calcutta. Thousands of female destitutes were turned into prostitutes. Parents started to sell their children. “In the villages jackals and dogs engaged in a tug-of-war for the bodies of the half-dead.”\(^4\)

As the crisis began, thousands of women organized in Bengal in defense of their food rights. “Open more ration shops” and “Bring down the price of food” were the calls of women’s groups throughout Bengal.\(^5\)

After the famine, the peasants also started to organize around the central demand of keeping a two-thirds, or tebhaga, share of the crops. At its peak the Tebhaga movement, as it was called, covered 19 districts and involved 6 million people. Peasants refused to let their harvest be stolen by the landlords and the revenue collectors of the British Empire. Everywhere peasants declared, “Jan debo tabu dhan debo ne”—“We will give up our lives, but we will not give up our rice.” In the village of Thummiya, the police arrested some peasants who resisted the theft of their harvest. They were charged with “stealing paddy.”\(^6\)

A half-century after the Bengal famine, a new and clever system has been put in place, which is once again making the theft of the harvest a right and the keeping of the harvest a crime. Hidden behind complex free-trade treaties are innovative ways to steal nature’s harvest, the harvest of the seed, and the harvest of nutrition.

The Corporate Hijacking of Food and Agriculture

I focus on India to tell the story of how corporate control of food and globalization of agriculture are robbing millions of their livelihoods and their right to food both because I am an Indian and because Indian agriculture is being especially targeted by global corporations. Since 75 percent of the Indian population derives its livelihood from agriculture, and every fourth farmer in the world is an Indian, the impact of globalization on Indian agriculture is of global significance.

However, this phenomenon of the stolen harvest is not unique to India. It is being experienced in every society, as small farms and small farmers are pushed to extinction, as monocultures replace biodiverse crops, as farming is transformed from the production of nourishing and diverse foods into the creation of markets for genetically engineered seeds, herbicides, and pesticides. As farmers are transformed from producers into consumers of corporate-patented agricultural products, as markets are destroyed locally and nationally but expanded globally, the myth of “free trade” and the global economy becomes a means for the rich to rob the poor of their right to food and even their right to life. For the vast majority of the world’s people—70 percent—earn their livelihoods by producing food. The majority of these farmers are women. In contrast, in the industrialized countries, only 2 percent of the population are farmers.

FOOD SECURITY IS IN THE SEED

For centuries Third World farmers have evolved crops and given us the diversity of plants that provide us nutrition. Indian farmers evolved 200,000 varieties of rice through their innovation and breeding. They bred rice varieties such as Basmati. They bred red rice and brown rice and black rice. They bred rice that grew 18 feet tall in the Gangetic floodwaters, and saline-resistant rice that could be grown in the coastal water. And this innovation by farmers has not stopped.
Agreement of the World Trade Organization (WTO), allow corporations to usurp the knowledge of the seed and monopolize it by claiming it as their private property. Over time, this results in corporate monopolies over the seed itself.

Corporations like RiceTec of the United States are claiming patents on Basmati rice. Soybean, which evolved in East Asia, has been patented by Calgene, which is now owned by Monsanto. Calgene also owns patents on mustard, a crop of Indian origin. Centuries of collective innovation by farmers and peasants are being hijacked as corporations claim intellectual-property rights on these and other seeds and plants.

"FREE TRADE" OR "FORCED TRADE"

Today, ten corporations control 32 percent of the commercial-seed market, valued at $23 billion, and 100 percent of the market for genetically engineered, or transgenic, seeds. These corporations also control the global agrochemical and pesticide market. Just five corporations control the global trade in grain. In late 1998, Cargill, the largest of these five companies, bought Continental, the second largest, making it the single biggest factor in the grain trade. Monoliths such as Cargill and Monsanto were both actively involved in shaping international trade agreements, in particular the Uruguay Round of the General Agreement on Trade and Tariffs, which led to the establishment of the WTO.

This monopolistic control over agricultural production, along with structural adjustment policies that brutally favor exports, results in floods of exports of foods from the United States and Europe to the Third World. As a result of the North American Free Trade Agreement (NAFTA), the proportion of Mexico’s food supply that is imported has increased from 20 percent in 1992 to 43 percent in 1996. After 18 months of NAFTA, 2.2 million Mexicans have lost their jobs, and 40 million have fallen into extreme poverty. One out of two peasants is not getting enough to eat. As Victor Suárez has stated, “Eating more cheaply on imports is not eating at all for the poor in Mexico.”
In the Philippines, sugar imports have destroyed the economy. In Kerala, India, the prosperous rubber plantations were rendered unviable due to rubber imports. The local $350 million rubber economy was wiped out, with a multiplier effect of $3.5 billion on the economy of Kerala. In Kenya, maize imports brought prices crashing for local farmers who could not even recover their costs of production.

Trade liberalization of agriculture was introduced in India in 1991 as part of a World Bank/International Monetary Fund (IMF) structural adjustment package. While the hectares of land under cotton cultivation had been decreasing in the 1970s and 1980s, in the first six years of World Bank/IMF-mandated reforms, the land under cotton cultivation increased by 1.7 million hectares. Cotton started to displace food crops. Aggressive corporate advertising campaigns, including promotional films shown in villages on “video vans,” were launched to sell new, hybrid seeds to farmers. Even gods, goddesses, and saints were not spared: in Punjab, Monsanto sells its products using the image of Guru Nanak, the founder of the Sikh religion. Corporate, hybrid seeds began to replace local farmers’ varieties.

The new hybrid seeds, being vulnerable to pests, required more pesticides. Extremely poor farmers bought both seeds and chemicals on credit from the same company. When the crops failed due to heavy pest incidence or large-scale seed failure, many peasants committed suicide by consuming the same pesticides that had gotten them into debt in the first place. In the district of Warangal, nearly 400 cotton farmers committed suicide due to crop failure in 1997, and dozens more committed suicide in 1998.

Under this pressure to cultivate cash crops, many states in India have allowed private corporations to acquire hundreds of acres of land. The state of Maharashtra has exempted horticulture projects from its land-ceiling legislation. Madhya Pradesh is offering land to private industry on long-term leases, which, according to industry, should last for at least 40 years. In Andhra Pradesh and Tamil Nadu, private corporations are today allowed to acquire over 300 acres of land for raising shrimp for exports. A large percentage of agricultural production on these lands will go toward supplying the burgeoning food-processing industry, in which mainly transnational corporations are involved.

Meanwhile, the United States has taken India to the WTO dispute panel to contest its restrictions on food imports.

In certain instances, markets are captured by other means. In August 1998, the mustard-oil supply in Delhi was mysteriously adulterated. The adulteration was restricted to Delhi but not to any specific brand, indicating that it was not the work of a particular trader or business house. More than 50 people died. The government banned all local processing of oil and announced free imports of soybean oil. Millions of people extracting oil on tiny, ecological, cold-press mills lost their livelihoods. Prices of indigenous oilseed collapsed to less than one-third their previous levels. In Sira, in the state of Karnataka, police officers shot farmers protesting the fall in prices of oilseeds.

Imported soybeans’ takeover of the Indian market is a clear example of the imperialism on which globalization is built. One crop exported from a single country by one or two corporations replaced hundreds of foods and food producers, destroying biological and cultural diversity, and economic and political democracy. Small mills are now unable to serve small farmers and poor consumers with low-cost, healthy, and culturally appropriate edible oils. Farmers are robbed of their freedom to choose what they grow, and consumers are being robbed of their freedom to choose what they eat.

**Creating Hunger with Monocultures**

Global chemical corporations, recently reshaped into “life sciences” corporations, declare that without them and their patented products, the world cannot be fed.

As Monsanto advertised in its $1.6 million European advertising campaign:

Worrying about starving future generations won’t feed them. Food biotechnology will. The world’s population is growing rapidly, adding the equivalent of a China to the globe every ten years. To feed these billion more mouths, we can try extending our farming land or squeezing greater harvests out of existing cultivation. With
the planet set to double in numbers around 2030, this heavy dependency on land can only become heavier. Soil erosion and mineral depletion will exhaust the ground. Lands such as rainforests will be forced into cultivation. Fertilizer, insecticide, and herbicide use will increase globally. At Monsanto, we now believe food biotechnology is a better way forward.\(^{11}\)

But food is necessary for all living species. That is why the Tattvarya Upanishad calls on humans to feed all beings in their zone of influence.

Industrial agriculture has not produced more food. It has destroyed diverse sources of food, and it has stolen food from other species to bring larger quantities of specific commodities to the market, using huge quantities of fossil fuels and water and toxic chemicals in the process.

It is often said that the so-called miracle varieties of the Green Revolution in modern industrial agriculture prevented famine because they had higher yields. However, these higher yields disappear in the context of total yields of crops on farms. Green Revolution varieties produced more grain by diverting production away from straw. This “partitioning” was achieved through dwarfing the plants, which also enabled them to withstand high doses of chemical fertilizer.

However, less straw means less fodder for cattle and less organic matter for the soil to feed the millions of soil organisms that make and rejuvenate soil. The higher yields of wheat or maize were thus achieved by stealing food from farm animals and soil organisms. Since cattle and earthworms are our partners in food production, stealing food from them makes it impossible to maintain food production over time, and means that the partial yield increases were not sustainable.

The increase in yields of wheat and maize under industrial agriculture were also achieved at the cost of yields of other foods a small farm provides. Beans, legumes, fruits, and vegetables all disappeared both from farms and from the calculus of yields. More grain from two or three commodities arrived on national and international markets, but less food was eaten by farm families in the Third World.

The gain in “yields” of industrially produced crops is thus based on a theft of food from other species and the rural poor in the Third

World. That is why, as more grain is produced and traded globally, more people go hungry in the Third World. Global markets have more commodities for trading because food has been robbed from nature and the poor.

Productivity in traditional farming practices has always been high if it is remembered that very few external inputs are required. While the Green Revolution has been promoted as having increased productivity in the absolute sense, when resource use is taken into account, it has been found to be counterproductive and inefficient.

Perhaps one of the most fallacious myths propagated by Green Revolution advocates is the assertion that high-yielding varieties have reduced the acreage under cultivation, therefore preserving millions of hectares of biodiversity. But in India, instead of more land being released for conservation, industrial breeding actually increases pressure on the land, since each acre of a monoculture provides a single output, and the displaced outputs have to be grown on additional acres, or “shadow” acres.\(^{12}\)

A study comparing traditional polycultures with industrial monocultures shows that a polyculture system can produce 100 units of food from 5 units of inputs, whereas an industrial system requires 300 units of input to produce the same 100 units. The 295 units of wasted inputs could have provided 5,900 units of additional food. Thus the industrial system leads to a decline of 5,900 units of food. This is a recipe for starving people, not for feeding them.\(^{13}\)

Wasting resources creates hunger. By wasting resources through one-dimensional monocultures maintained with intensive external inputs, the new biotechnologies create food insecurity and starvation.

THE INSECURITY OF IMPORTS

As cash crops such as cotton increase, staple-food production goes down, leading to rising prices of staples and declining consumption by the poor. The hungry starve as scarce land and water are diverted to provide luxuries for rich consumers in Northern countries.
Flowers, fruits, shrimp, and meat are among the export commodities being promoted in all Third World countries. When trade liberalization policies were introduced in 1991 in India, the agriculture secretary stated that “food security is not food in the godowns but dollars in the pocket.” It is repeatedly argued that food security does not depend on food “self-sufficiency” (food grown locally for local consumption), but on food “self-reliance” (buying your food from international markets). According to the received ideology of free trade, the earnings from exports of farmed shrimp, flowers, and meat will finance imports of food. Hence any shortfall created by the diversion of productive capacity from growing food for domestic consumption to growing luxury items for consumption by rich Northern consumers would be more than made up.

However, it is neither efficient nor sustainable to grow shrimp, flowers, and meat for export in countries such as India. In the case of flower exports, India spent Rs. 1.4 billion as foreign exchange for promoting floriculture exports and earned a mere Rs. 320 million. In other words, India can buy only one-fourth of the food it could have grown with export earnings from floriculture. Our food security has therefore declined by 75 percent, and our foreign exchange drain increased by more than Rs. 1 billion.

In the case of meat exports, for every dollar earned, India is destroying 15 dollars’ worth of ecological functions performed by farm animals for sustainable agriculture. Before the Green Revolution, the byproducts of India’s culturally sophisticated and ecologically sound livestock economy, such as the hides of cattle, were exported, rather than the ecological capital, that is, the cattle themselves. Today, the domination of the export logic in agriculture is leading to the export of our ecological capital, which we have conserved over centuries. Giant slaughterhouses and factory farming are replacing India’s traditional livestock economy. When cows are slaughtered and their meat is exported, with it are exported the renewable energy and fertilizer that cattle provide to the small farms of small peasants. These multiple functions of cattle in farming systems have been protected in India through the metaphor of the sacred cow. Government agencies cleverly disguise the slaughter of cows, which would outrage many Indians, by calling it “buffalo meat.”

In the case of shrimp exports, for every acre of an industrial shrimp farm, 200 acres of productive ecosystems are destroyed. For every dollar earned as foreign exchange from exports, six to ten dollars’ worth of destruction takes place in the local economy. The harvest of shrimp from aquaculture farms is a harvest stolen from fishing and farming communities in the coastal regions of the Third World. The profits from exports of shrimp to U.S., Japanese, and European markets show up in national and global economic growth figures. However, the destruction of local food consumption, ground-water resources, fisheries, agriculture, and livelihoods associated with traditional occupations in each of these sectors does not alter the global economic value of shrimp exports; such destruction is only experienced locally.

In India, intensive shrimp cultivation has turned fertile coastal tracts into graveyards, destroying both fisheries and agriculture. In Tamil Nadu and Andhra Pradesh, women from fishing and farming communities are resisting shrimp cultivation through satyagraha. Shrimp cultivation destroys 15 jobs for each job it creates. It destroys $5 of ecological and economic capital for every dollar earned through exports. Even these profits flow for only three to five years, after which the industry must move on to new sites. Intensive shrimp farming is a non-sustainable activity, described by United Nations agencies as a “rape and run” industry.

Since the World Bank is advising all countries to shift from “food first” to “export first” policies, these countries all compete with each other, and the prices of these luxury commodities collapse. Trade liberalization and economic reform also include devaluation of currencies. Thus exports earn less, and imports cost more. Since the Third World is being told to stop growing food and instead to buy food in international markets by exporting cash crops, the process of globalization leads to a situation in which agricultural societies of the South become increasingly dependent on food imports, but do not have the foreign exchange to pay for imported food. Indonesia and Russia provide examples of countries that have moved rapidly from food-sufficiency to hunger because...
cause of the creation of dependency on imports and the devaluation of their currencies.

STEALING NATURE’S HARVEST

Global corporations are not just stealing the harvest of farmers. They are stealing nature’s harvest through genetic engineering and patents on life forms.

Genetically engineered crops manufactured by corporations pose serious ecological risks. Crops such as Monsanto’s Roundup Ready soybeans, designed to be resistant to herbicides, lead to the destruction of biodiversity and increased use of agrochemicals. They can also create highly invasive “superweeds” by transferring the genes for herbicide resistance to weeds. Crops designed to be pesticide factories, genetically engineered to produce toxins and venom with genes from bacteria, scorpions, snakes, and wasps, can threaten non-pest species and can contribute to the emergence of resistance in pests and hence the creation of “superpests.” In every application of genetic engineering, food is being stolen from other species for the maximization of corporate profits.

To secure patents on life forms and living resources, corporations must claim seeds and plants to be their “inventions” and hence their property. Thus corporations like Cargill and Monsanto see nature’s web of life and cycles of renewal as “theft” of their property. During the debate about the entry of Cargill into India in 1992, the Cargill chief executive stated, “We bring Indian farmers smart technologies, which prevent bees from usurping the pollen.”16 During the United Nations Biosafety Negotiations, Monsanto circulated literature that claimed that “weeds steal the sunshine.”17 A worldview that defines pollination as “theft by bees” and claims that diverse plants “steal” sunshine is one aimed at stealing nature’s harvest, by replacing open, pollinated varieties with hybrids and sterile seeds, and destroying biodiverse flora with herbicides such as Monsanto’s Roundup.

This is a worldview based on scarcity. A worldview of abundance is the worldview of women in India who leave food for ants on their doorstep, even as they create the most beautiful art in kolams, mandalas, and rangoli with rice flour. Abundance is the worldview of peasant women who weave beautiful designs of paddy to hang up for birds when the birds do not find grain in the fields. This view of abundance recognizes that, in giving food to other beings and species, we maintain conditions for our own food security. It is the recognition in the Isho Upanishad that the universe is the creation of the Supreme Power meant for the benefits of (all) creation. Each individual life form must learn to enjoy its benefits by farming a part of the system in close relation with other species. Let not any one species encroach upon others’ rights.18 The Isho Upanishad also says,

a selfish man over-utilizing the resources of nature to satisfy his own ever-increasing needs is nothing but a thief, because using resources beyond one’s needs would result in the utilization of resources over which others have a right.19

In the ecological worldview, when we consume more than we need or exploit nature on principles of greed, we are engaging in theft. In the anti-life view of agribusiness corporations, nature renewing and maintaining itself is a thief. Such a worldview replaces abundance with scarcity, fertility with sterility. It makes theft from nature a market imperative, and hides it in the calculus of efficiency and productivity.

FOOD DEMOCRACY

What we are seeing is the emergence of food totalitarianism, in which a handful of corporations control the entire food chain and destroy alternatives so that people do not have access to diverse, safe foods produced ecologically. Local markets are being deliberately destroyed to establish monopolies over seed and food systems. The destruction of the edible-oil market in India and the many ways through which farmers are prevented from having their own seed supply are small instances of an overall trend in which trade rules, property rights, and new technologies are used to destroy people-friendly and environment-friendly alternatives and to impose anti-people, anti-nature food systems globally.
The notion of rights has been turned on its head under globalization and free trade. The right to produce for oneself or consume according to cultural priorities and safety concerns has been rendered illegal according to the new trade rules. The right of corporations to force-feed citizens of the world with culturally inappropriate and hazardous foods has been made absolute. The right to food, the right to safety, the right to culture are all being treated as trade barriers that need to be dismantled.

This food totalitarianism can only be stopped through major citizen mobilization for democratization of the food system. This mobilization is starting to gain momentum in Europe, Japan, India, Brazil, and other parts of the world.

We have to reclaim our right to save seed and to biodiversity. We have to reclaim our right to nutrition and food safety. We have to reclaim our right to protect the earth and her diverse species. We have to stop this corporate theft from the poor and from nature. Food democracy is the new agenda for democracy and human rights. It is the new agenda for ecological sustainability and social justice.

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6. Peter Custers, p. 78.
7. Festivals like Uganda, Ramanavami, Akshay Trateeya, Ekadashi Aluyana Amavase, Naga Panchami, Noolu Hunime, Ganesh Chaturthi, Rishi Panchami, Navartri, Deepavali, Rathasaptami, Tulsii Vivaha Campastruasti, and Bhoomi Puja all include religious ceremonies around the seed.
9. These companies are DuPont/Pioneer (U.S.), Monsanto (U.S.), Novartis (Switzerland), Groupe Limagrain (France), Advanta (U.K. and Netherlands), Guipo Pulsar/Semins/ELM (Mexico), Sakata (Japan), KWS HG (Germany), and Taki (Japan).
12. ASSINSEL (International Association of Plant Breeders), "Feeding the 8 Billion and Preserving the Planet," Nyon, Switzerland: ASSINSEL.

Vandana Shiva, “Globalization, Gandhi, and Swadeshi.”