The True Cost of Food

A	For more than forty years the cost of food has been rising. It has now reached a point where
	a growing number of people believe that it is far too high, and that bringing it down will be
	one of the great challenges() of the twenty first century. That cost, however, is
	not in immediate() cash. In the West at least, most food is now far cheaper to
	buy relative () in terms () than it was in 1960. The cost is in the
	collateral damage() of the very methods of food production that have made
	the food cheaper: in the pollution of water, the enervation() of soil, the
	destruction() of wildlife(), the harm to animal welfare(
	and the threat to human health caused by modern industrial agriculture().
B	First mechanisation(), then mass use of chemical fertilisers() and
	pesticides (), then monocultures (), then battery rearing (
	of livestock(), and now genetic() engineering() - the
	onward () march () of intensive farming has seemed
	unstoppable() in the last half-century, as the yields() of produce
	have soared(). But the damage it has caused has been colossal(). In
	Britain, for example, many of our best-loved farmland () birds, such as the
	skylark(), the grey partridge(), the lapwing() and the
	com bunting(), have vanished() from huge stretches(
	of countryside, as have even more wild flowers and insects. This is a direct result of the
	way we have produced our food in the last four decades(). Thousands of miles
	of hedgerow() s, thousands of ponds, have disappeared from the
	landscape(). The faecal() filth() of salmon farming
	has driven() wild salmon() from many of the sea
	Iochs() and rivers of Scotland. Natural soil fertility() is dropping
	in many areas because of continuous () industrial () fertiliser and
	pesticide use, while the growth of algae() is increasing in lakes because of the
	fertiliser run-off().
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	rarely make the connection at the dinner table. That is mainly because the costs of all this
	damage are what economists () refer to as externalities (): they are
	outside the main transaction(), which is for example producing and selling a
	field of wheat, and are borne() directly by neither producers nor consumers.
	To many, the costs may not even appear to be financial() at all()
	but merely aesthetic () - a terrible shame (), but nothing to do with
	money. And anyway they, as consumers of food, certainly aren't paying for it, are they?
D	But the costs to society can actually be quantified () and, when added
	up(), can amount to() staggering(
	sums(). A remarkable() exercise in doing this has been carried out
	by one of the world's leading () thinkers on the future of agriculture, Professor
	Jules Pretty, Director of the Centre for Environment and Society at the University of Essex
	Professor Pretty and his colleagues calculated () the externalities of British

	agriculture for one particular year(). They added up the costs of repairing
	() the damage it caused, and came up with a total figure () of
	£ 2,343m. This is equivalent() to £ 208 for every hectare() of
	arable() land and permanent() pasture(), almost as
	much again as the total government and EU spend on British farming in that year. And
	according to Professor Pretty, it was a conservative () estimate ().
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	nitrates(); £ 55m for removal of phosphates() and soil; £ 23m
	for the removal () of the bug () cryptosporidium ()
	from drinking water by water companies; ~125m for damage to wildlife
	habitats(), hedgerows and dry stone walls; £ 1,113m from
	emissions() of gases likely to contribute to climate change; £ 106m from soil
	erosion() and organic() carbon() losses; £ 169m
	from food poisoning (); and £ 607m from cattle () disease.
	Professor Pretty draws a simple but memorable () conclusion ()
	from all this: our food bills are actually threefold(). We are paying for our
	supposedly() cheaper food in three separate ways: once over the
	counter(), secondly through our taxes, which provide the enormous
	() subsidies () propping() up modern
	intensive() farming, and thirdly to clean up the mess() that
	modern farming leaves behind.
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	industrial agriculture as the solution to hunger may be very hard for some countries, but in
	Britain, where the immediate need to supply food is less urgent(), and the costs
	and the damage of intensive farming have been clearly seen, it may be more
	feasible(). The government needs to create sustainable(),
	competitive and diverse() farming and food sectors(), which will
	contribute to a thriving() and sustainable rural () economy, and
	advance environmental, economic, health, and animal welfare goals.
G	But if industrial agriculture is to be replaced(), what is a viable()
	alternative()? Professor Pretty feels that organic farming would be too big a
	jump in thinking and in practices for many farmers. Furthermore, the price
	premium() would put the produce out of reach of many poorer consumers. He
	is recommending() the immediate introduction of a 'Greener Food Standard',
	which would push the market towards more sustainable environmental practices than the
	current norm(), while not requiring() the full
	commitment() to organic production. Such a standard would
	comprise() agreed practices for different kinds of farming, covering
	agrochemical() use, soil health, land management, water and energy use, food
	safety and animal health. It could go a long way(), he says, to shifting
	consumers as well as farmers towards a more sustainable system of agriculture.