Di Et for our times

Many of us have been involved for years in an unhealthy activity which pollutes our waterways, depletes our natural resources, erodes our lands, contributes to climate change, inflicts unnecessary suffering, violates the rights of others, is violent and a key contributor to global hunger. We put up with it, being hoodwinked into thinking it's natural, part of our culture, or because we are too lazy to change, or refuse to believe the evidence in front of us. Like an alcoholic who refuses to see there is a problem, we continue pretending there's no problem and sink deeper into the quagmire. To borrow from Barack Obama's successful US Presidential campaign: It's time for a change. Eating meat is this damaging practice. Here are some facts.

Unhealthy diet for humans
Meat is very difficult for humans to digest. Carnivores, like dogs and cats, have short digestive systems and fairly acidic digestive juices suitable for breaking down meat quickly before it putrifies. Herbivores have much longer digestive systems and more alkaline digestive juices suitable for breaking down vegetables, fruits and grains.

Humans are traditionally classified as omnivores which can eat both meats and vegetarian foods. Yet the human system is better designed for vegetarian diets than a meat based one. We have a long digestive system where meat can putrify, and over time this can lead to colon cancers. The acid required for meat digestion can also cause stomach problems.

The American Dietetic Association reports: “Vegetarian diets offer a number of nutritional benefits, including lower levels of saturated fat, cholesterol, and animal protein, as well as higher levels of carbohydrates, fiber, magnesium, potassium, folate, and antioxidants such as vitamins C and E and phytochemicals. Vegetarians have been reported to have lower body mass indices than non-vegetarians, and lower rates of death from ischemic heart disease; vegetarians also show lower blood cholesterol levels, lower blood pressure and lower rates of hypertension, type 2 diabetes, and prostate and colon cancer.”

Farming deadly pathogens
The practice of commercial factory farming which is responsible for most meat production in the developed world, adds additional health risks to humans. These risks arise from a concentration of animal waste in the immediate environment, the increased prevalence of animal disease arising from crowded conditions in factory farms, unnatural feed given to farmed animals, and the increase of antibiotic-resistant bacteria arising from over-use of antibiotics to prevent such animal disease. Bovine spongiform encephalopathy (Mad cow disease), H5N1 Avian Influenza and more recently H1N1 (Swine Flu) are all believed to have originated from factory farms.

Factory farms typically cram animals, particularly pigs and chickens, into tiny cages where they can hardly move and are fed antibiotics and artificial food while living on top of their own wastes. These conditions provide ideal conditions for viruses to evolve. The animals have no fresh air or sunlight to bolster their immune systems and, suffering severe stress are very susceptible to diseases. Dr Greager of the Humane Society of the U.S., says: “If you wanted to create global pandemics, you'd build as many of these factory farms as possible. That's why the swine flu development isn't a surprise to those in the public health community. In 2003 the American Public Health Association called for a moratorium on factory farming because it saw something like this would happen.”

Polluting waters
Meat farming results in pollution of waterways through run-off from fertiliser use and stock effluent. According to the US Environmental Protection Agency, over 200 manure discharges and spills from

Millions of people around the world are hungry and without access to clean water while livestock consume grain, water and land for the meat market, reports ALYN WARE. A change from meat eating to a vegetarian diet, besides having health benefits, will help solve the world’s hunger problem, reduce much unnecessary suffering inflicted on animals bred to be killed for food, and reduce the heavy environmental costs of meat production.

NOW! the best of times for a diet change

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U.S. animal farms between 1990 and 1997 killed more than a billion fish. Animal feedlots can contaminate nearby well water with high nitrate levels, which have been linked to miscarriages in humans as well as “blue baby” syndrome in infants.

The livestock business is among the most damaging sectors to the earth's increasingly scarce water resources, contributing among other things to water pollution, eutrophication and degeneration of coral reefs.

UN Food and Agricultural Organisation, Nov 2006

In New Zealand, research in 2007 shows each cow generates as much waste as 14 people, so the waste output of the national dairy herd is equal to that of 73 million humans, a figure rather difficult for NZ’s human population of 4.23 million people to imagine. Effluent and fertilizer run-off from dairy and meat farms in NZ are responsible for algae and weed blooms and oxygen depletion which choke rivers and lakes and deplete fish stocks. This also leads to increased E. coli bacteria in waterways which threaten the health of any humans or animals drinking or swimming in affected waterways. A survey of New Zealand Regional council officials, responsible for water quality ranks agriculture as the number one source of water pollution in New Zealand, above industry, forestry, human sewage.

Depleting natural resources

The human demand for meat has led to hundreds of millions of acres of forest being cleared to make way for land for grazing. According to the UN Food and Agricultural Organisation, 30 percent of the earth's entire land surface is now used for meat production. In the United States, grazing has contributed to the demise of 26% of federal threatened and endangered species. In Latin America, 70 percent of former Amazon forests have been turned over to grazing for meat production. This is hugely depleting our earth of forests including the many thousands of living species that dwell within them. Tragically, our unhealthy meat eating habit has destroyed the lives and livelihoods of thousands sustainable tribal people, living in Amazonian regions and continues to do so.

Crops require far less land. Frances Moore Lappe estimates it takes 18-20 times more land to produce meat than it does to produce the equivalent protein sustenance from food crops.

Pass up one hamburger, and you’ll save as much water as you save by taking 40 showers with a low-flow nozzle.

Ed Ayres, World Watch Institute

Meat farming also consumes huge amounts of water and fossil fuels. In the United States it takes 441 gallons to produce one pound of beef, compared with 14 gallons for a pound of wheat. According to Cornell ecologist, David Pimentel, meat production uses 10-20 times more fossil fuel consumption than food crops per pound.

Eroding our lands

In New Zealand, large tracts of forest have been cleared for meat and dairy farming. Removing tree roots in hilly areas destabilises the land and leads to slips, reducing the capacity of the land to produce, and adding silt to our waterways, further damaging them. Land has also been cleared for horticulture. However, hilly areas are usually cleared for stock not crops, making meat farming a more significant cause of erosion.

In the United States, over 25% of topsoil has been lost to agriculture. About 80% of this is related to meat production, either in land for grazing or from grain production for animal feed.

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Erosion from farming.

Contributing to climate change

According to the United Nations Food and Agriculture Organisation, the livestock sector generates more greenhouse gas emissions at 18 percent, as measured in CO2 equivalent, than all the cars, trucks and airplanes in the world combined. Dr. Rajendra Pachauri, head of the Nobel Prize-winning United Nations Intergovernmental Panel on Climate Change, says a change in diet would have more effect than switching to a hybrid car.
Inflicting unnecessary suffering
Meat eating cannot avoid inflicting suffering on animals. In factory farming, the suffering begins at birth and continues until death. On some meat farms, animals may have a reasonable life on the farm but suffer the cruel fate of slaughter, which if you have visited a slaughter house you will know is a terrible thing to happen to a sentient being.

Violence of killing
With a few possible exceptions, e.g. euthanasia, killing is violence. It could be argued killing is sometimes justified to prevent a greater harm from occurring. Thus the United Nations Charter permits use of force by a country in self-defence, if they have been attacked, or attack is imminent, overwhelming and unable to be prevented by any other means. Mahatma Gandhi believed in most cases, killing is unjustified even if the desired ends are justified. He said the means must be consistent with the ends. Yet even he said violence would be justified against a madman shooting people randomly in a village.

Eating meat requires the killing of animals. If we apply non-violence principles to meat-eating, it could be possible to justify this practice only if there are no other alternatives that would prevent a greater harm, such as human starvation. This could be true in some regions and situations. But, for the most part, humans could survive, and in fact do thrive, without killing animals for food. Consequently, many ethical and religious paths as well as leaders of peace and non-violence advocate vegetarianism as a way of practising non-violence and in helping to develop a less violent world.

Contributing to global hunger/violating rights
Whose rights are violated by meat-eating? Firstly, the rights of humans. We have a right to life and a right to the basics of life such as food and water. Millions of people around the world do not have access to clean water or sufficient nutrition. These rights are denied while livestock are consuming grain, water and land. This grain could be used to feed the hungry and the water could be used for those who do not have water, and the land could be used to produce food for the hungry.

Secondly, meat-eating denies the rights of animals. Do animals have rights? Philosopher Peter Singer answers Why not? Animals are sentient beings like humans. They have feelings and very likely emotions. Some say animals don’t have the same intelligence as humans. But this is a tricky yard-stick. Some dolphins, chimpanzees and dogs have demonstrated an intelligence greater than some intellectually disadvantaged or brain-damaged humans. If we use mere intelligence as a yard-stick we would have to give intelligent people more rights than less intelligent people, and we would have to give dolphins, chimpanzees and dogs greater rights than intellectually disadvantaged humans. This kind of thinking thankfully lost favour early last century.

Another argument for not extending rights to animals is the belief they have no soul. Yet there is no scientific proof of a soul, or any real difference between humans and animals on criteria which could be linked to a soul. Criteria have been suggested such as altruism which can be found in some animals (dogs and dolphins for example) and though altruism can be attributed to some humans it can be observed to be somewhat lacking in others. Singer says those who opposed extending human rights to women and to people of colour in the 20th century, used the same arguments, such as lack of a soul, now being used by those saying animals have no rights. In claiming animals have rights does not mean they should have all of the same rights as humans. The right to vote, for example, is not applicable to animals. It means animals have at least the same basic rights to life, habitat and freedom from the deliberate infliction of suffering by human beings.

Climate change and cows

Millions of people around the world do not have access to clean water or sufficient nutrition. These rights are denied while livestock are consuming grain, water and land.
A tasty vegetarian dinner.

Ready to change? It’s not hard
I used to love cooking and eating meat and thought the idea of being a vegetarian was crazy. But as a vegetarian I am healthier than before and feel better about walking more lightly on the planet, although I could do more in other areas. Nowadays there is so much variety in vegetarian foods that it’s very easy to have a rich, exciting diet without eating meat.19 ■PE

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IMPACTS OF LIVESTOCK ON FOOD AVAILABILITY
1/3 of the world’s cereal harvest and over 90% of soya is used for animal feed, despite inherent inefficiencies:

- It takes <10 kg of animal feed to produce 1 kg of beef
- 4–5.5 kg of grain to produce 1 kg of pork
- 2.1 to 3 kg of grain to produce 1 kg of poultry meat

A farmer can feed up to 30 persons throughout the year on 1 hectare with vegetables, fruits, cereals and vegetable fats

- Growth in meat consumption leads to growth in factory farming.
- If the same area is used for the production of eggs, milk or meat, the number of persons fed varies from 5 to 10