## Apocalypse not

How carbon fuels have greened our planet



TORONTO — Writing more than two millen-nia ago. the Greek philosopher Aristotle observed in his treatise Meteorology that around his portion of the Mediternaen basin "sometimes there is much drought or rain, and it prevails over a great and continuous stretch of country." but that "at other times it is local; the surrounding country often getting seasonable or even excessive rains while there is drought in a certain part." Sometimes, too, "all the sur-rounding country gets little or even no rain The unpredictability of the weather from one growing season to the next was then, as it is now, an unavoidable and often terrifying fact of TORONTO — Writing more than to ia ago, the Greek philosopher

now, an unavoid unavoidable and often terrifying fact of

agricultural life. Where most saw a problem, some saw oppor-tunities by claiming to be able to predict or influ-ence the weather and to identify human actions that triggered unseasonable heat or cold, exces-sive or insufficient rainfall, and warming or col-ing trends. Over the years, their "climatic scapegoats" ranged from insufficient offiering to the gods, witchcraft and deforestation to light ning rods, wireless telegraphy, canon shots in the First World War, nuclear testing and (visible)

the First World War, nuclear testing and (visible) air pollution. Nowadays, of course, a large number of dimeter modelers and activists trace every lead weather event to invisible oddress and state based on the model of the model of the model of the state of the st

Far from resting on established facts, howev-r, the claims trumpeted by McKibben are based



By Pierre Desrochers For The Drill

on "scenarios" concorted by modelers who can't explain the lack of global warming over the past decade and a half. If one dares to leave the realm of climate conjectures for the world of instorcal reality, however, the available evidence paradox-relative, and the service of many regions of our planet. For instance, France has seen its forest area expand by one-third between 1830 and 1960, and by a further quarter since 1960. This so-called "forest transition" occurred in the context of a doubling of the standards of living. The French gross domestic product per capita multiplied by approximately 18 during this period. Reforestation — or an improvement in the quality of the forest cover in countries such as Japan where it has no room to grow — has similarly occurred in all major temperate and borreal forests and in every country. perate and boreal forests and in every co-with a per capita GDP now exceeding \$4,600 — roughly equal to that of Chile —

The burning of carbon fuels created this out-come in many ways, not the least of which is that carbon dioxide emissions are plant food. Yet, this is only part of an underappreciated

Despite widespread beliefs to the contrary, Despite widespread beliefs to the contrary, perhaps as much as nine-tentis of all deforesta-tion caused by human beings since the emer-gence of civilization occurred before 1950 as people needed to clear massive amounts of forested land in order to provide themselves with shelter, food, warmth and a multitude of objects.

objects. Unfortunately, in many locations without prime agricultural land, primitive technologies ensured not only that at least 40 acres and a mule were required to (poorly) sustain a household, but also that much environmental damage was done in the process. As another Greek philosopher, Plato, also observed more than two millennia and Athesis.

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As another Greek philosopher, Plato, also observed more than two millennia ago, Athenis hanerland had once been "covered with soil," the plains "full of irich earth," and the mountain signifying an "abundance of wood," but in his time many mountains could "only afford sustemance to bees "while, as in small sidned, all the "richer and softer parts of the soil fladó Jallen being left."

Complaints similar to Plato's were common throughout the ages until technological advances ushered in the age of carbon fuels over two centuries ago. Among other environmental benefits, coal and later heavy oil and natural gas and insessed misses and insessed misses and tiesel engines eliminated the need for millions of horses and mules — and their feed and bedding requirements — in both farms and cities. Synthetic products made out of coal, and later oil and natural gas, made redundant the cultivation of plaints such as rubber and cinchona trees

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Synthetic products made redundant
on of plants such as rubber and cinthe latter being at one point in ti
nown cure to malaria — indigo a
thich are the key inputs in the pr ed to the production of cotton and wool and ng pressures on wildlife, from whales to

Through their role as long-distance land and maritime transportation fuels, coal and later petroleum-based fuels — mostly diesel amarine bunker fuel — encouraged agricultural specialization in the most productive zones of

the planet.

Coal, natural gas and petroleum were also Coal, natural gas and petroreum were and indispensable to the extraction, production, transportation and spray of a vast array of agricultural inputs — from irrigation water and fertilizers to pesticides and greenhouses — that drastically increased yields while curtailing loss-

drastically increased yields while curtailing losses to pests and diseases.

The scale and scope of modern transportation technologies also made it possible to drastically increase the size of our cities and to concentrate more people on small amounts of land.

Because space is at a premium in urban areas, city residents drive, pollute, consume and throw space much less than people living in less draws.

city residents drive, pollute, consume and throw away much less than people living in less dense surroundings. In the words of economist Ed Glaeser, "Residing in a forest might seem to be a good way of showing one's love of nature, but living in a concrete jungle is actually far more ecologically friendly... If you love nature, stay away from it."

away from it."

To put things in perspective, cities, suburbs, roads and highways cover perhaps less than 5 percent of the land area of the lower 48 American states. Worldwide, cities occupy approximately 2 percent of Earth's surface, an area expected to double to 4 percent in the next half-century.

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For several decades in the United States and roughly half of the world, far more agricultural and has been reverting to widerness than has represented to audiences than has represented to audiences than has represented to a propose the control of the control of

Desrochers is associate professor of geography at the University of Toronto. This column is adapted from his book The Locavore's Dilemma: In Praise of the 10,000-mile Diet. Contact him at http://epsem.erin.utoronto.ca/desrochers.

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