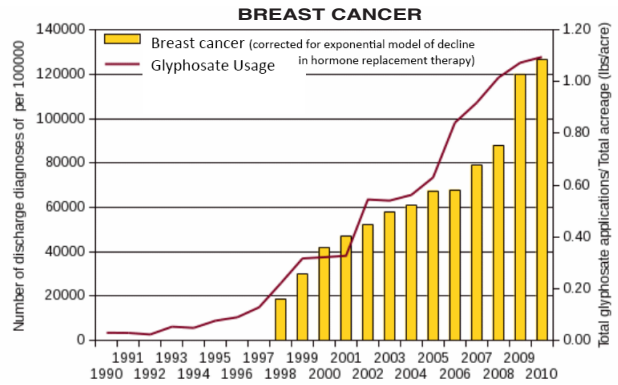
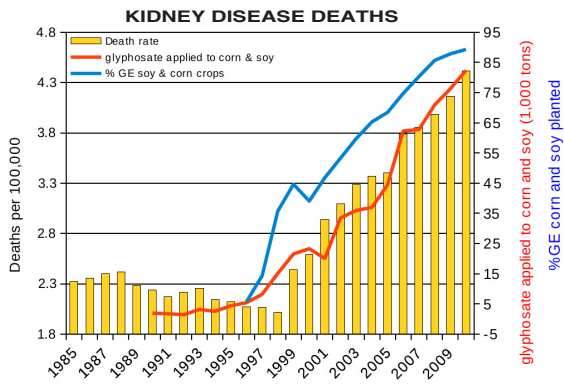
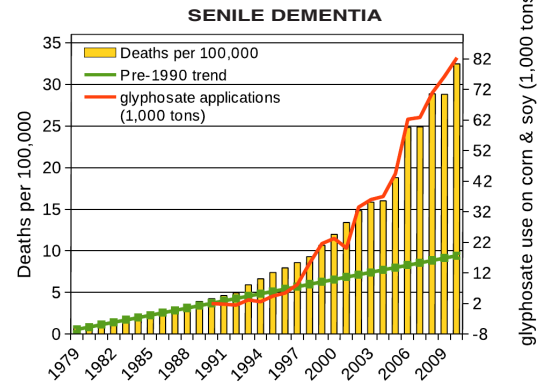


Antibiotics in food (from glyphosate-sprayed crops or medicated farm animals) imbalance gut bacteria, and can lead to chronic diseases (both physical and mental) and to antibiotic resistance. ^{2; 3; 4d; 10, p82}

Urine samples of 48 EU Members of Parliament from 18 countries all tested positive for glyphosate, most with amounts greatly above the allowable limit (2016).
In Germany, 99.6% of 2000 people tested had glyphosate in their urine. ^{Boll Fd, 2016}
In USA, glyphosate in urine up by ~1000% between 1993 and 2016 in those studied.
~ 8000 tests by Canadian government showed 41% of US products glyphosate-contaminated. ^{7a}

Sources compiled by L. Johnson (6/2018), skyhillfarm.ny@gmail.com or www.DiseaseGlyphosateGMOs.info

- 17 Reasons to Ban Glyphosate by N. Swanson et al
- Seneff & Samsel studies on glyphosate and disease at <https://people.csail.mit.edu/seneff/>
- Complete graphs and 81 references online: "Genetically engineered crops, glyphosate and the deterioration of health in the United States of America" by N. Swanson et al
- GMO/glyphosate research: (a) A. Pusztai; (b) J. Carman; (c) G. Seralini; (d) M. Antoniou; (e) M. Kruger
- Altered Genes, Twisted Truth by Druker, 2015. Key FDA documents (biointegrity.org)
- USRTK.org: Whitewash. The Story of a Weed Killer, Cancer, and the Corruption of Science. Gillam
- Poison Foods of North America, by Mitra, 2017 2017 (b) Poison Spring, E. Vallianatos w/ Jenkins
- (a) D. Huber, former USDA and Purdue U plant pathologist (b) www.gmwatch.org
- (a) Myths of Safe Pesticides, A. Leu, pp 62-85 (b) Poisoning Our Children, A. Leu
- What's Making Our Children Sick? M. Perro MD, V. Adams. (Resources: p 211-12)
- www.endocrinedisruption.org; "A Case for Revisiting the Safety of Pesticides." T. Colborn
- http://www.i-sis.org.uk/CaMV_35S_Promoter_in_GM_Feed_that_Sickened_Rats.php (2015)
- (a) www.i-sis.org.uk/Ban_GMOs_Now.php (b) gmwatch.org; 10-Questions-about-GM-Foods
- www.TheGuardian.com/business/monsanto (Archived articles)
- GMO Myths and Truths, Robinson, Antoniou and Fagan

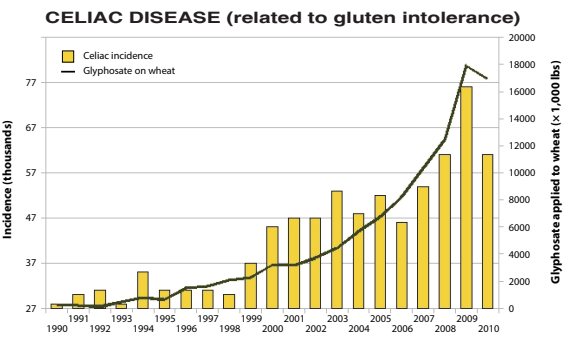


glyphosate use on corn & soy (1,000 tons)

glyphosate applied to corn and soy (1,000 tons)

Total glyphosate applications/Total acreage (abstrace)

In 2012, 98% of US spring and durum wheat were treated with glyphosate; its antibiotic action appears to explain how gluten enters the bloodstream causing celiac disease and gluten sensitivity. ^{3; 2}



FOODS with GMOs and GLYPHOSATE:

- GMOs: over 90% of USA corn, soy, canola, sugar beets and cotton. Also alfalfa, some potato, apple and tobacco; aspartame; yeast in wine (soon beer) and veggie burgers; many food flavorings and other additives; growth hormones in much of cows' milk, dairy foods and some salmon. ^{10, 102-3}
- Often glyphosate-sprayed pre-harvest: wheat, barley, oats, sweet potatoes, cane sugar, beans, lentils, chickpeas, sunflower seeds, fruits, nuts. ^{6, p.52; 3}
- Derivative products such as high fructose corn syrup (in soda, power drinks, candy, baked goods); "fake" meats, food extenders, soy infant formula, pet food, veggie protein, lecithin; bread, cereal, crackers, pasta; cotton products, tampons; corn-soy-canola-cotton seed vegetable oils, etc. ^{6; 2; 3}
- Most sugar from non-organic sources.
- Most products of farm animals raised or finished on non-organic feed.

WHY NOT RETURN to TRADITIONAL, SAFE and LOCAL FOOD?

- The kitchen and the lunchbox. (For goodness sake).
- Diverse food gardens everywhere. (Mowing to Hoeing).
- Frozen and fermented food (Share root cellar & freezer space).
- Backyard heritage chickens (Fresh eggs, meat, lard, plus tick control).
- Community gardens, greenhouses, buying clubs, CSA's (Neighbors☺).
- Real family farm economy of the past. (Goodbye, factory "farms").
- Local dairy, meat-processing, grain, and food co-ops. (Local jobs & \$).
- Farm to school: dairy, eggs, meat, vegetables. (Love the next generation).
- Carbon (CO₂) where it belongs---in the soil, growing healthy foods.

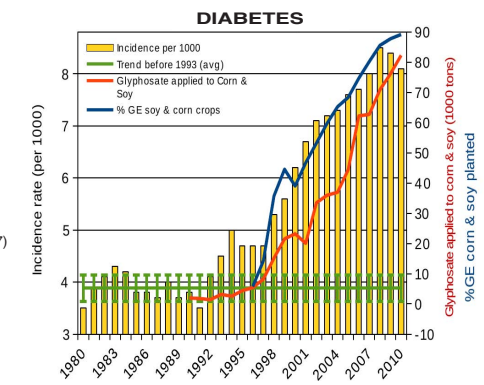
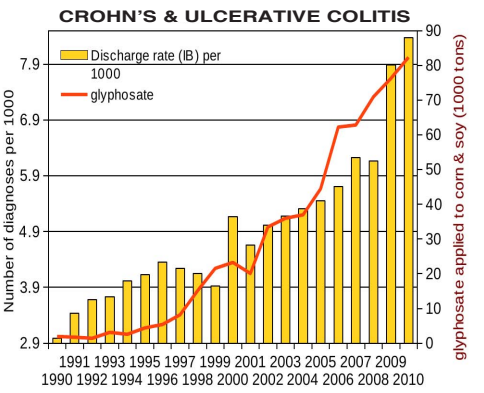
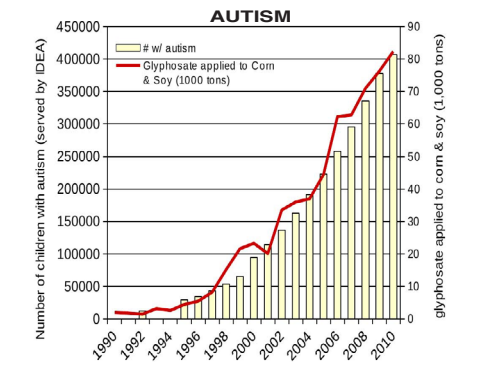
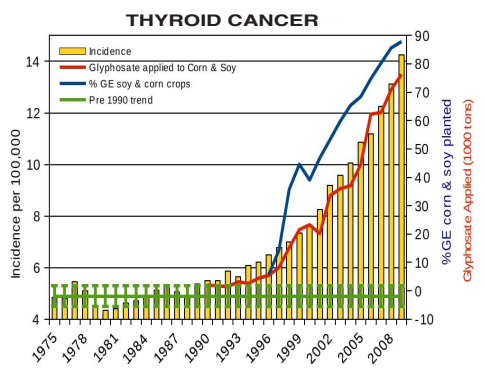
WHY NOT PROMOTE THESE FOOD BUSINESSES?

- Heritage, organic, sourdough wheat bakeries (Homegrown & ground).
- 100% grass-fed organic yogurt, kefir, cheese (Ferment milk).
- Fermented vegetables, apple cider vinegar (Yes, beneficial bacteria).
- Probiotics & mineral solutions for honeybee & pollinator health. ^{8a; 2}
- Sauerkraut juice & apple cider vinegar for farm animal health. ^{2 (WAPF, 2017); 8a}
- Kelp, seaweed, fish wastes, sea solids (Fertilizer, seaponics, compost).
- Safe hops, barley, grapes. (Local beer, wine and liquor once again).
- Organic feed corn, sweet corn and popcorn (Big shortage in US).
- Non-GMO alfalfa livestock feed; diverse grain sprouts (Healthy treats).
- Non-GMO, glyphosate-free, manure-based composts (Recycle safety).
- Reverse osmosis water treatment (For businesses and homes.)

Small, bio-diverse family farms using ecological methods can feed the world. ^{9b; 13; 15}
But nutritious food, free of poisons, growth hormones, and antibiotics, must be fairly priced. It can't compete with cheap "food" of agrochemical-GMO operations with 2 million chickens, 15,000 dairy cows or 5000 acres of corn. Regional food economies could renew local business, jobs, health, and be cost effective.

RISE OF 20 DISEASES IN THE USA CORRELATES WITH RISE OF GLYPHOSATE (ROUNDUP®) AND GMOs IN OUR EVERYDAY FOODS

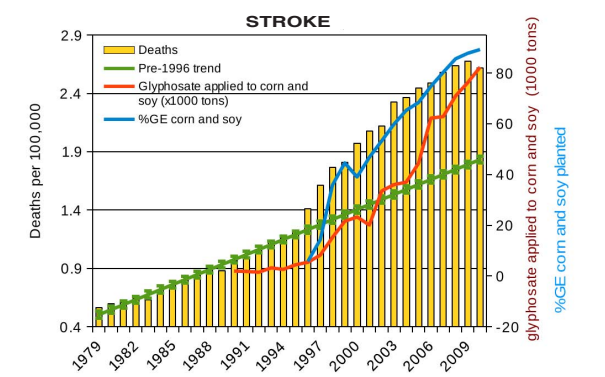
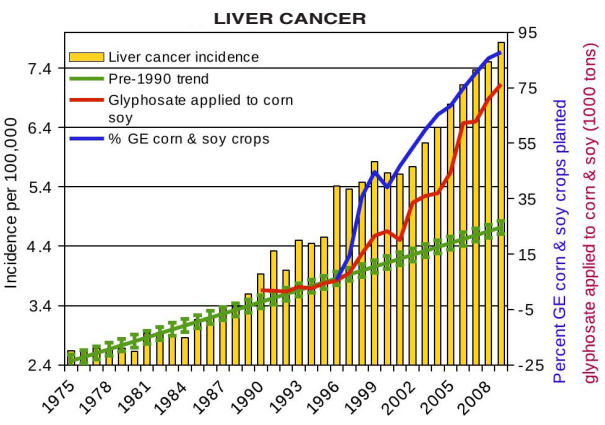
Glyphosate in Roundup® is found in GMOs (aka GE or GM food) and often in non-organic wheat, dairy, meat, eggs, corn, soy, sugar, oats, beans, chickpeas, nuts, & fruits. ^{6; 2(Nov'17)}
Key
 Glyphosate/GMO data: USDA
 Disease data: Center for Disease Control ^{1; 3}



Glyphosate (the key poison in Monsanto's Roundup® weed-killer, 1974 to present) is an endocrine or hormone disruptor. ^{1, 2, 3, 4d}

- Endocrine-disrupting synthetic chemicals cause hormone imbalances and malfunctions that can lead to 18 different diseases as well as infertility, erectile dysfunction, birth defects, sexual development problems, and learning disabilities. ^{1; 3; 11; 6, p 8}
- There are NO safe levels of hormone disrupting chemicals. Low doses over time may lead to very serious illnesses. ^{1; 3; 10 (p 142), 11; 9b, (p 51)}
- Endocrine disruptors are especially damaging to those undergoing hormonal changes: fetuses, babies, children, adolescents and the elderly. ^{3; 11}
- Glyphosate is a hormone disruptor that:
 - Promotes growth of breast cancer cells. ^{2, (Nov. 2017/WAPFSeneff, p 38); 10 (p 142)}
 - Is linked to livestock infertility, abortion, & deformities. ^{4e; 13a; 8a; 2 (2017/WAPFSeneff)}
 - Disrupts gut bacteria needed to produce thyroid hormone. ^{2 (Nov 2017, p13)}
- Other Roundup ingredients (POEA, arsenic and lead) are also hormone disruptors. ^{sciencedirect.com/science/article/pii/S221475001730149X}

• Roundup's glyphosate was first patented as a chemical to clean out mineral deposits in boiler pipes.
• Then patented as a herbicide that blocks mineral absorption in plants (and so farm animals and humans eating them).
• And next patented as an antibiotic, killing micro-organisms in the plant and soil, (and so in guts of farm animals and humans). ^{1; 8a}



• Children have the highest levels of pesticide exposure due to their food consumption in relation to their body weight. ^{9b, p159}
• Our kids are sicker than their parents and with complex, chronic illnesses that do not resemble those of the past and that doctors can do little about aside from minimizing the symptoms (Irritable Bowel Syndrome or IBS, Crohn's disease, asthma, eczema, type II diabetes, GERD or reflux, obesity, ADHD, autism spectrum, food allergies and chronic headaches.) ^{10, p.x, p.200}

Many chemicals disrupt hormones, or gut bacteria, or mineral availability. But no others are like glyphosate, a triple whammy that we eat everyday. This trifecta of impacts could lead to a broad spectrum of health problems. ^{10, p 79-80}

Of all herbicides, Roundup's glyphosate is the:

MOST BROAD-SPECTRUM

- Glyphosate poisons by immobilizing 11 minerals, such as calcium and iron, which, in turn, prevents the uptake of other minerals. ^{1; 2; 3; 8a}
Sprayed crops eaten by farm animals and humans are mineral deficient. ^{2; 3; 8a}
- As an antibiotic, glyphosate preferentially kills beneficial bacteria as those used in fermenting vegetables, yogurt, beer and wine. ^{1; 3}
- This antibiotic action slowly leads to "nutrient deficiency, chronic intestinal diseases, inflammation, and autoimmune diseases." ^{1; 2 (2013b), 4b; 4e}

MOST USED

- Roundup® is used on playgrounds, parks, roadsides, golf courses, gardens, and farms (both pre-planting and pre-harvest). It kills 250 lawn weeds, but not the newly resistant "super weeds".
- "Monsanto recommends that farmers use glyphosate in various ways in conjunction with the production of more than one hundred food crops, according to the EPA." ^{6, p. 52}
- Glyphosate went off patent in 2000 and there are now many glyphosate-based herbicides besides Roundup®.

MOST PERVASIVE and PERSISTENT

- Glyphosate is a systemic poison, so can't be washed off. It moves throughout the entire plant and into the soil through its roots. It weakens soil organisms that transfer nutrients into the plant, and has led to 40 emerging plant diseases. ^{8a}
- Glyphosate is not biodegradable, persisting for years in soil & water. ^{3; 8a}
- It bio-accumulates in animal & human organs, tissues, bones. ^{2, 2017/WAPF; 3; 4e}

It is found in:

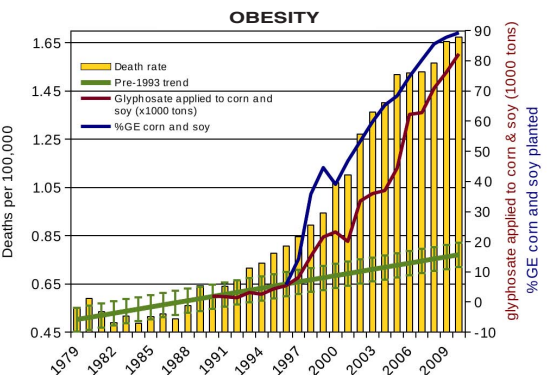
- Surface and well water, rain, air, soil, sprayed forests. ^{1; 6}
- GMO crops, and many non-GMO crops sprayed before harvest. ^{2 (2017)}
- Most farm animal feed and products (meat, eggs, dairy, gelatin). ^{1; 2}
- Gelatin dessert, protein powder, both children's vitamins and painkiller containing gelatin from animal cartilage/bones. ^{2, Pathways to Disease VI}
- Vaccines incubated in gelatin, as MMR (measles) & others. ^{2, Pathways to Disease VI}
- Animal manure used as fertilizer on organic & conventional crops. ²
- Honey and in the tissues of honeybees. ^{6; 2(2017/WAPF/ Bee Colony Collapse & Species in Distress)}
- Infant formula, breast milk, baby cereal, and cotton (tampons, sterile gauze). ^{6; 2}

MOST UNTESTED

- The USDA, FDA and EPA accept Monsanto's own unpublished, confidential safety testing on glyphosate and GMOs. ^{5; 6; 10, p113}
- EPA has exempted glyphosate from annual compliance tests for over 40 years. ^{6; 14}
- Other ingredients in Roundup® greatly increase its toxicity. ^{8; 10 (p 143)}
- EPA does not test mixtures of chemicals for combined effects. ⁷
- FDA increased levels of glyphosate allowable in foods in 2013. ^{5; 6}

"Roundup may in fact be the most biologically disruptive chemical in our environment." ^{2, Mar 2018, A Samsel, research chemist}

Skyrocketing diseases cannot be genetic. So, what is increasing as disease rates? One answer: The use of Roundup and GMOs exploded with Roundup Ready crops (1996) that could be sprayed repeatedly without killing the crop. ¹



FALSE PROMISES of GMOs

- GMOs were claimed to be the same as traditional plant breeding and traditional food. They would increase yields, reduce pesticide use, deliver useful traits, and feed the world. But:
- Traditional crossing of like plants is not the same as insertion of multiple foreign genes (transgenes) from non-plants. ³
 - GMO, conventional, and organic soy are different regarding vitamin, fat, protein, and mineral content. ^{2, Nov2017/WAPF; 3}
 - Yields have proven higher & more nutritious in organic crops. ^{9a, p 87-109; C Benbrook}
 - The GMO Bt toxin crop itself is a pesticide, registered as such by the EPA. ^{13b}
 - 99% of GMOs have two traits: Roundup Ready (absorbs the herbicide) and Bt toxin (contains an insecticide). Corn can have both traits, "stacked". ^{10, p103, 107}
 - New GMO traits to tolerate the poisons Dicamba and 2,4-D (in addition to Roundup®) are used to combat new super-weeds. 2,4-D (in Agent Orange) contains potent dioxins, like TCDD. ^{9b, p 78}
 - Small ecological farms worldwide can best feed the world. ^{9b, 13a; 10 p125, 15}

FLAWED SCIENCE of GMOs

- This technology is based on the false premise that one gene controls one trait. But one gene controls many traits, interacting with minerals, enzymes, and environmental factors (like stress, poisons). ^{8a}
- Research is needed into potential hazards of adding transgenes to food (virus, bacteria and antibiotic-resistant transgenes, as well as trait transgenes for Roundup® tolerance and for Bt insecticide). ^{13a; 13b}
- No safety studies have yet been completed on GMO foods and humans. ^{10, p 111, 114}
- Proof of falsified industry studies and hidden risks re GMOs and glyphosate is public (30+ years of Monsanto emails to the EPA, et al, were released via lawsuit by cancer victims; ~4000 lawsuits pending in US.). ^{6; 14}

KNOWN AND POTENTIAL RISKS of GMOs

- Both GMOs & glyphosate are toxic to the kidneys and liver. ^{1; 2; 3; 4d; 10 (p 142); 9b, p7}
- Inflamed stomachs (pigs) and gaps in stomach lining (rats) that can cause leaky gut, infections and allergies. ^{4b}
- The virus transgene has been found in the DNA of rats fed GMOs. ¹²
- The antibiotic-resistant transgene has been found in polluted water. ^{13a, p31}
- GMO transgenes have been found in human feces. ^{13a}
- Potential hazards include: uncontrollable mutations, new viruses and allergies, and spreading antibiotic resistance. ^{13a; 13b}
- New apple, potato and mushroom varieties have "silenced" or "edited" genes to prevent browning. There is evidence that this latest gene-altering process survives digestion in animals and humans. ^{10, p 128-9}