

Round Up Round Up

What is RoundUp?

RoundUp is a highly toxic herbicide made by Monsanto. The active ingredient in RoundUp is Glyphosate. RoundUp sales around the world are approximated at **US\$6 Billion annually** and projected to be worth US\$ 8.79 Billion by 2019 due to demand created by the company's proprietary **RoundUp Ready** genetically modified crops. The sole purpose of these RoundUp Ready crops is to drive up sales of RoundUp

RoundUp Kills Pollinators

"the population of monarchs that completes the North American migration and spends winter in Mexico has declined by more than 90 percent,"
-National Resources Defense Council

Federal approval of the key ingredient in Monsanto's Roundup has caused the monarch butterfly population to plummet 90 percent since 1997.

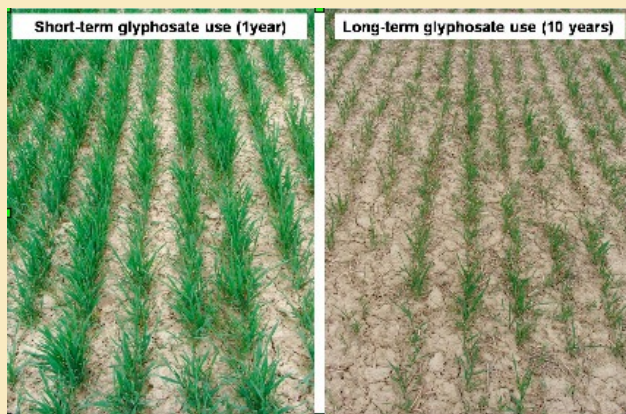
<http://www.courthousenews.com/2015/03/02/environmentalists-link-plunge-of-monarch-butterfly-to-herbicide.htm>



RoundUp Runoff is Destroying the Oceans

Round-Up goes hand-in-hand with chemical fertilisers and GM crops. The combination leaches into ground water and eventually finding it's way to oceans- creating 'Dead-Zones'

There's even an aptly named variant of Glyphosate called Dead Zone



RoundUp Destroys the Soil

RoundUp destroys all life in the soil. It kills all microbes that would typically help in plant growth - by providing nutrients- and protect the plants from diseases. RoundUp triggers over 40 plant diseases.

<http://www.responsibletechnology.org/posts/monsanto-s-roundup-triggers-over-40-plant-diseases/>

RoundUp and GM crops are a recipe for disaster

Genetically modified crops do not have greater yield nor do they have greater nutrition. Those traits come from the plant that RoundUp Resistance and Bt-toxin traits and forced into. All GM crops do is allow for unrestricted use of RoundUp rendering the soil dead, devastating biodiversity and causing death and diseases in plants, animals and human beings. It is not in the interest of Monsanto to feed the world or reduce the use of RoundUp.

For the sowing season of 2010, in the US, Monsanto reduced the price of RoundUp by 50%. The price decrease coupled with restructuring of the product value proposition resulted in an increase of gross profit by 46% in 2010 due to increased volume. Did the US obtain more farmland or did Monsanto force farmers to use almost 3 times the RoundUp that was used in 2009? In India, Monsanto's net sales of RoundUp for Financial Year 2013-14 were ₹208.89 crores, up by ₹69.86 crores (50%) over the Financial Year 2012-13 net sales of ₹139.03 crores. This increase, according to Monsanto is due to higher volumes. Reducing chemical use doesn't seem to be a priority for Monsanto.

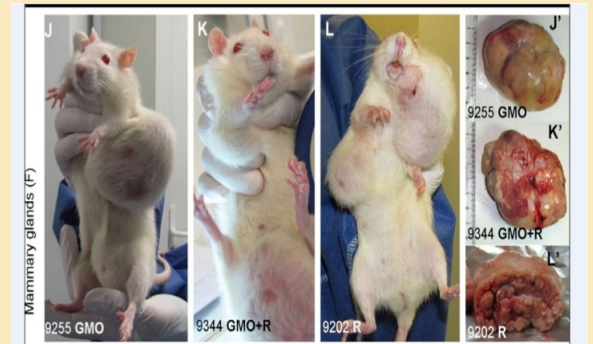
<http://www.wiglafjournal.com/pricing/2012/06/monsanto-the-global-glyphosate-market-case-study/>

RoundUp is dangerous!

CANCER

Exposure to Glyphosate has been shown to cause **tumours** of the mammary glands in rats. The International Agency for Research on Cancer has linked Glyphosate exposure to cancer. **RoundUp** is many many times **more toxic** than Glyphosate alone.

[http://www.thelancet.com/journals/lanonc/article/PIIS1470-2045\(15\)70134-8/abstract](http://www.thelancet.com/journals/lanonc/article/PIIS1470-2045(15)70134-8/abstract)



KIDNEY FAILURE

On the island of Sri Lanka, 20,000 people have died due to kidney failure attributed to Glyphosate exposure.

<http://www.lankabusinessonline.com/news/sri-lanka,-kidney-disease-linked-to-glyphosate,-phosphate->



BIRTH DEFECTS

<http://overgrowthesystem.com/argentina-the-country-that-monsanto-poisoned-photo-essay/>
Argentina has seen a rise in birth defects, cancers, kidney failures, infertility and various other diseases in an otherwise healthy people due to unchecked use of RoundUp.

DISRUPTS ENDOCRINE SYSTEM

The Endocrine system regulates metabolism, growth and development, tissue function, sexual function, reproduction, sleep, and mood, among other things.

Glyphosate alone wreaks havoc on the endocrine system at levels permitted for drinking water. RoundUp is even more toxic at the same concentration levels.

<http://www.gmo-evidence.com/dr-young-roundup-herbicide-is-endocrine-disruptor-in-human-cells-at-drinking-water-levels/>

RoundUp DAMAGES DNA

Minimal exposure by inhalation of Glyphosate - even at 450 times less concentration than that used for spraying- damages DNA in the cells.

<http://www.ncbi.nlm.nih.gov/pubmed/22331240>



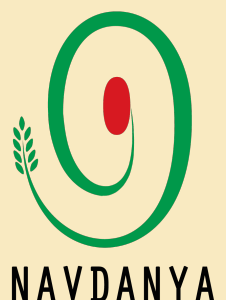
AUTISM AND ADULT ONSET ALZHEIMER'S DISEASE

At today's rate, by 2025, half of US children will be autistic. RoundUp usage is rampant in countries like the US where GM crops have taken over the farm systems.

The original patent on Glyphosate was given for its chelation properties. Glyphosate chelates useful micronutrients leading to Autism and Alzheimer's Disease.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3945755/>

Compiled by Navdanya
www.navdanya.org www.seedfreedom.info



NAVDANYA