# GLYPHOSATE CONTAMINATION



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"The terms glyphosate and Roundup cannot be used interchangeably nor can you use 'Roundup' for all glyphosate-based herbicides any more. For example you cannot say that Roundup is not a carcinogen... we have not done the necessary testing on the formulation to make that statement. The testing on the formulations are not anywhere near the level of the active ingredient."

- DONNA FARMER Monsanto's Lead Toxicologist

"If I can kill this I should get a medal," Jess Rowland, EPA's Health Effects Division of the Office of Pesticide Programs tells Monsanto lobbyist Dan Jenkins.<sup>2</sup>

-JESS ROWLAND

An EPA Deputy Division Director in the Pesticide Division, told a Monsanto lobbyist, who then emailed his fellow Monsanto executives seeking to kill a federal scientific review glyphosate's carcinogenicity.

A 2001 study found that men exposed to glyphosate at work were between 20% and 26% more likely to develop non-Hodgkin's lymphoma.<sup>3</sup>

In fact, workers who came into contact with Roundup for 2 or more days every year were 212% more likely to get lymphoma than people with fewer than 2 days of exposure.<sup>4</sup>

-CANCER EPIDEMIOLOGY, BIOMARKERS & PREVENTION

Commissioned by **The Detox Project**Written by **Dave Murphy & Henry Rowlands** 

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Report by The Detox Project and United We Eat



#### Widespread Glyphosate Contamination Found in American Food Supply

## More than Half of Foods Tested Contained Glyphosate

In our first report nearly five years ago, we found alarming levels of glyphosate residues in 29 best-selling foods from major food companies in the continental United States, as increases in the spraying of more toxic pesticides was skyrocketing across rural America.<sup>5</sup>

In this new report, we disclose the glyphosate residue testing results of 86 foods found in major Big Box, grocery and natural food stores purchased in Des Moines, Iowa, including Walmart, Whole Foods, Target, Natural Grocers, and Hy-Vee, and foods bought online through Amazon.

Incredibly, more than half the foods tested, a total of 45 foods out of 86 products, contained alarming levels of glyphosate, ranging from 12 parts per billion (ppb) in "sprouted wholegrain bread" from Whole Foods to as high 889 ppb in Walmart's brand chickpeas, to 1,040 ppb in Whole Food's 365 Brand Whole Wheat Sandwich Bread, to the highest level detected of 1,150 ppb in Hy-Vee's 100% Whole Wheat Bread.

While none of these foods are genetically engineered, they still contain ingredients that are at a high risk of glyphosate contamination. There are no GMO wheat or chickpeas on the market in North America. For the past two decades, farmers in the U.S. and Canada have regularly sprayed Monsanto's

(now Bayer) Roundup on wheat, oats, barley and dry bean crops as a 'pre-harvest drying agent' to get the harvested crop to market faster.<sup>10, 11</sup>

This report, like our last one,<sup>12</sup> confirms that this practice, known as crop desiccation, exposes the American public to dangerous and unacceptable levels of glyphosate contamination in foods that consumers are led to believe are healthy.

In 2015, leading international scientists at the International Agency for Research on Cancer (IARC) found compelling evidence linking glyphosate to cancer in humans, while a 2019 meta-analysis by independent scientists at the University of Washington found glyphosate increased cancer risks by 41%, specifically non-Hodgkin lymphoma, specifically non-Hodgkin lymphoma, a cancer of the immune system that develops from abnormal lymphocytes, specificators and those regularly exposed to glyphosate. Lymphocytes are a type of immune cell made in the bone marrow that are found in the blood and lymph tissue.

If that weren't concerning enough, in 2017 researchers found that rats exposed to Roundup developed nonalcoholic fatty liver disease (NAFLD) over a 2-year period, even at "extremely low doses", 0.1 ppb, 19, 20 while in 2018 peer-reviewed research revealed that glyphosate-based herbicides were able to alter important biological markers related to sexual development, genotoxicity and damage the gut microbiome of rats in as little as 13 weeks at levels allowed in drinking water in America and considered to be "safe" by the U.S. government. 21, 22, 23

#### 'Healthier' Foods and Plant-Based Staples Contain Highest Levels of Glyphosate

To provide as much information to consumers as possible, especially those with chronic health issues, compromised immune systems and others seeking to eat 'healthier' diets, we focused our testing on foods that had a perceived or marketed 'health' benefit, such as whole wheat, oats, and dry edible beans such as chickpeas, lentils, black beans, pinto, green split peas, and those that we consider to be on the High Risk Ingredients list as well.

Many of these foods are also common staples in plant-based diets or for individuals seeking healthier options outside the standard American diet of ultra-processed foods. Unfortunately, while major food companies regularly advertise whole grains, oats, and edible beans as 'healthy' alternatives, these findings uncover the disturbing reality that many Americans seeking a healthier diet are regularly consuming foods that are contaminated with dangerous levels of glyphosate that can compromise their health.

## Major Differences in Conventional, Organic and Non-GMO

Overall, we found glyphosate residues at higher levels in conventional foods with 22 of the top 30 foods with high glyphosate levels, the top one being "a 100% whole wheat bread" bought from Hy-Vee, a local lowa grocery store chain. Of the 37 conventional foods tested, 23 contained glyphosate, with glyphosate residue levels ranging from 20 ppb to 1,150 ppb.

The second highest levels were found in another "whole wheat" bread, Whole Food's 365 Brand Whole Wheat Sandwich Bread, that many of the store's upscale consumers likely consider a healthier food choice than other types of breads,<sup>24</sup> such as white bread or breads made with highly processed bleached flour.<sup>25</sup> In addition to being sold at what is marketed to consumers as "the First and Only Certified Organic National Grocer",<sup>26</sup> the Whole Foods 365 whole wheat bread, is also certified as Non-GMO.<sup>27, 28</sup>

| At-a-Glance: Glyphosate Contamination in Conventional, Non-GMO and Organic Foods |   |                     |  |  |
|--|---|---------------------|--|--|
| Tested Glyphosate Found Residue Levels - Range in p                              |   |                     |  |  |
| 37 Conventional foods  | 23 contained glyphosate                             | 20 ppb to 1,150 ppb |  |  |
| 26 Non-GMO foods   | 18 tested positive<br>2 of the Top 5 Highest Levels | 12 ppb to 1,040 ppb |  |  |
| 23 Organic foods   | 5 tested positive                                   | 13 ppb to 54 ppb    |  |  |

| Glyphosate Levels Found in Foods by Grocery Store |  |  |  |  |
|---|--|--|--|--|
| 1. THE EMPLOYEE OWNED                             | Range from<br>17 ppb to 1,150 ppb      |  |  |  |
| 2. WHÖLE FOODS                                    | Range from<br>12 ppb to 1,040 ppb      |  |  |  |
| 3. Walmart ::                                     | Range from<br><b>54 ppb to 889 ppb</b> |  |  |  |
| 4. OTARGET.                                       | Range from<br>17 ppb to 348 ppb        |  |  |  |
| 5. NATURAL GRÉCERS                                | Range from<br><b>26 ppb to 144 ppb</b> |  |  |  |



## Non-GMO Widely Contaminated with Glyphosate Residues, Organic Less So

Unfortunately, a Non-GMO label on a food or supplement product does not mean that it is free of glyphosate contamination. Of the 26 foods tested that made Non-GMO claims, 18 tested positive for glyphosate, including 2 of the top 5 foods with the highest levels of glyphosate contamination. The levels found in Non-GMO labeled food ranged from 12 ppb to 1,040 ppb.

It is not without a pinch of irony that some of the highest levels of glyphosate are found in foods marketed as Non-GMO, which means they do not contain genetically engineered ingredients, since consumers buy these products to avoid Monsanto's (now Bayer's) GMO ingredients but are now exposed to high levels of their bestselling weedkiller instead.

With this major test sampling completed, we found that organic foods were significantly less likely to be contaminated with glyphosate and at much lower levels than either conventionally produced foods or foods certified as Non-GMO.

Of 23 organic foods tested, only 5 were found to contain glyphosate residues and their range, from 13 ppb to 54 ppb, while still deeply concerning, is significantly lower than other foods. It should be noted that synthetic pesticides such as Roundup and its active ingredient glyphosate are prohibited in USDA certified organic foods<sup>29</sup> and such residues likely came from contamination in the supply chain or drift from a nearby field where Roundup was sprayed.

## Understanding the parts per billion (ppb) unit of measurement

1 part per billion (ppb) is equivalent to  $1 \mu g/kg$  or  $1 \mu g/L$  of a given substance. This represents the concentration of a molecule, or a mixture as diluted into a larger whole. For a mixture,  $\underline{1}$  ppb corresponds to a dilution of 1 per billion molecules.

- 1 ppb of Roundup represents the dilution of a teaspoon of Roundup in the volume of an Olympic swimming pool.
- 700 µg of glyphosate dissolved in one liter of water corresponds to a concentration of 700 ppb, the level admitted in US tap water.
- This corresponds to one drop of Roundup in 6.6 gallons or 25 liters of tap water.

#### Foods Sprayed with Glyphosate as a Pre-Harvest Desiccant had Highest Levels

#### Pre-Harvest Spraying of Roundup/ Glyphosate Creates High Risk Ingredients

This report shows the damming reality that preharvest spraying, an off-label use of the world's most used weedkiller, is leading to the mass contamination of essential foods that form the base of our diet. These alarming results also show that Monsanto (Bayer), scientists, and government regulators have long failed to understand or even explore the basic risks and levels of human exposure that is currently taking place in the U.S. food supply.

Besides wheat, oats, and barley, Roundup is regularly sprayed on more than 70 crops, including almonds, apples, dry edible beans, lentils, chickpeas (garbanzo beans), peas, grapes, rice, and sunflowers.<sup>30</sup> The alarming levels that we found on these foods tested were not from crops that were genetically engineered to resist glyphosate, but because Roundup can help dry crops in a farmer's field and shorten the time spent before they can be made into foods, saving farmers and processed food companies money.

The exposure levels found here confirm that preharvest spraying of glyphosate on common food crops is an unacceptable risk for consumers, especially those with compromised immune systems and limited budgets, and must end.

## Glyphosate Use Skyrockets and Accumulates in Human Population

In the past 25 years, the spraying of glyphosate-based weedkillers has skyrocketed with the planting of genetically engineered Roundup Ready crops, such as GMO corn, soybeans, and cotton, which are modified to survive being sprayed with Roundup and were first approved in 1996 under the Clinton administration.<sup>31</sup>

In 1995, the year before Roundup Ready GMO crops went on the market, farmers in the U.S. used only 40 million pounds of glyphosate, by 2014 that number had increased to 280-290 million pounds according to the EPA.<sup>32</sup>

Today, Monsanto's Roundup, now owned by German pharmaceutical company Bayer, which bought the St. Louis, Missouri-based biotech seed and chemical company in 2018, is the most widely used agricultural weedkiller used in human history.<sup>33</sup>

Every year, more than 1 billion pounds of pesticides are sprayed across the U.S. for agricultural use,<sup>34</sup> including more than 300 million pounds of

Roundup, or nearly 1 pound for every American citizen.<sup>35</sup>

A 2019 analysis by the Midwest Center for Investigative Reporting found that use by farmers across the Midwest, in the 12 leading GMO corn and soybean producing states, were responsible for 65% of acres sprayed with Roundup across U.S. farmland. Since 1992, Midwestern corn and soybean farmers have increased their use of Roundup nearly 40 times more than they did in 1992, with a total of more than 188.7 million pounds of glyphosate being used in 2016.<sup>36</sup>

For America's farmers and consumers, Monsanto's repeated claims regarding Roundup and glyphosate's safety came unraveled at the same time farmers saw a rapid increase in glyphosateresistant superweeds that survived being sprayed with Roundup.

## From 1993 to 2016 Glyphosate Levels in Humans Increased by Alarming 1,208%

Today, the weedkiller most widely used by Midwestern farmers and Canadian wheat growers is finding its way into people's everyday food, leading to a massive increase in unexpected exposures for the American public.

In 2017, a peer-reviewed study that tracked pesticide levels in people in Southern California for 20 years found a staggering 500% increase<sup>37</sup> in the percentage of people who tested positive for glyphosate in their urine. The study, published in the prestigious Journal of the American Medical Association, tracked people from 1993 to 2016 and found that for some individuals their levels of glyphosate surged by 1,208 percent.

When compared to a UK study that discovered rats fed low levels of glyphosate for two years

developed higher levels of nonalcoholic fatter liver disease (NAFLD), Paul Mills PhD, the lead author of the JAMA study, claimed "the levels of glyphosate documented in the people in his study were 100-fold greater than those in the rat study." <sup>38</sup>

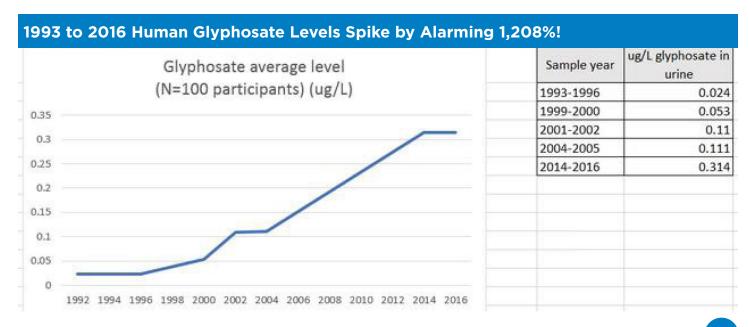
"What we saw was that prior to the introduction of genetically modified foods, very few people had detectable levels of glyphosate," said Mills. But by 2000, 30% of the subjects found glyphosate in their urine and "as of 2016, 70 percent of the study cohort had detectable levels." <sup>39</sup>

While the levels of exposure track significantly with the rise of Roundup Ready GMO agriculture, which saw a 300-fold increase in the use of glyphosatebased herbicides from 1974 to 2014, the hidden culprit lurking in our food today is contamination from pre-harvest spraying.

#### **Reasons for Concern**

In March 2015, the world's leading cancer experts at the International Agency for Research on Cancer (IARC) found that glyphosate was linked to cancer in humans. Since then, dozens of independent studies published in peer reviewed journals have found that glyphosate can have multiple negative health impacts including harm to beneficial gut bacteria, 40, 41, 42, 43 birth defects, 44, 45, 46 infertility, 47, 48 reproductive issues 49 such as miscarriages, 50, 51 shorter pregnancies, 52, 53, 54 increased infant mortality, 55, 56 and certain cancers. 57, 58, 59, 60, 61, 62

To put these glyphosate residue level results in perspective, the latest peer reviewed scientific research shows that: Roundup can cause liver and kidney damage in rats at levels as low as 0.05 parts per billion (ppb) and at 0.1 ppb glyphosate has been found to alter the gene function of over 4,000 genes in the livers and kidneys of rats.<sup>63</sup>



In addition, peer-reviewed studies have also found that 0.1 ppb can cause severe organ damage in rats<sup>64</sup> and that levels as low as 10 ppb can cause oxidative stress and have toxic effects on the livers of fish.<sup>65</sup> Additional peer-reviewed research has found damage to the livers and kidneys of rats at 700 ppb,<sup>66</sup> which the EPA considers the allowable level of glyphosate in U.S. drinking water.<sup>67, 68</sup>

Despite the fact that the U.S. Food and Drug Administration (FDA)<sup>69</sup> and Department of Agriculture<sup>70</sup> have never published significant glyphosate residue levels for regularly consumed foods by the American public and has long downplayed glyphosate's harmful health impacts to humans, livestock and the environment, the Environmental Protection Agency (EPA) warns that long-term exposure to glyphosate at only 700 ppb can cause "problems with their kidneys or reproductive difficulties" <sup>71</sup> and states that drinking water exposure exists due to "Runoff from herbicide use." <sup>72, 73</sup>

### IARC Links Glyphosate, Roundup to Cancer

These findings became even more urgent on March 20, 2015, when 17 leading global toxicologists and cancer experts at the International Agency for Research on Cancer (IARC) sparked a scientific and political firestorm when they classified glyphosate as "probably carcinogenic to humans".<sup>74, 75</sup>

According to IARC's review of independent peer reviewed research available at the time, leading scientists found that there was "limited evidence" that glyphosate was carcinogenic in humans for non-Hodgkin lymphoma, but "sufficient" evidence of cancer in experimental animals (from studies of "pure" glyphosate).<sup>76</sup>

These top scientific experts also found that 74% of the studies they reviewed showed there was 'strong' evidence for genotoxicity, both for 'pure' glyphosate and for glyphosate formulations, meaning that in 2015 independent research found strong evidence that glyphosate and the world's bestselling weedkiller Roundup were linked to significant harm in lab animals used in standard toxicology studies and was genotoxic or could cause damage to DNA that could lead to cancer and other significant health risks.<sup>77</sup>

#### 5 Decades of Deception: Monsanto Found Guilty of Hiding Glyphosate's Links to Cancer

Even as serious and credible claims of scientific harm and corporate malfeasance pile up, Monsanto (Bayer) executives continue to declare that Roundup and its alleged active ingredient glyphosate are perfectly safe, 78, 79 even urging

scientists to regularly claim that glyphosate is "safer than table salt"<sup>80, 81, 82</sup> and caffeine<sup>83, 84</sup> despite the growing number of significant peer-reviewed studies that point to the contrary.<sup>85, 86</sup>

Despite Monsanto's nearly 5 decades of denial of harm from Roundup, on August 10, 2018, a jury found Monsanto guilty of "negligent failure" for failing to warn consumers about the carcinogenicity of glyphosate and that they acted with "malice, oppression and fraud". 87, 88

After reaching a unanimous verdict, the jury ordered Monsanto to pay an unprecedented \$289 million in damages to California groundskeeper Dewayne Johnson after he "developed non-Hodgkin's lymphoma after using Roundup and Ranger Pro, another Monsanto glyphosate herbicide, as part of his job as a pest control manager for a California county school system." 89

The jury "awarded \$39 million in compensatory and \$250 million in punitive damages", a ruling which San Francisco Superior Court Judge Suzanne Bolanos later upheld, but reduced the settlement to \$78 million, while also denying "Monsanto's motion to overturn the landmark jury verdict." 90

The following year, in 2019, Monsanto lost two more similar lawsuits, with jury's finding Monsanto guilty again, being forced to pay Edwin Hardeman an \$80 million settlement in May, followed by a landmark \$2 billion court verdict to the Pilliods, husband and wife plaintiffs who were both diagnosed with non-Hodgkin lymphoma. 91, 92

Beyond unprecedented settlements, jurors, judges, and the American public got a peek behind the curtain at how corrupt Monsanto scientists and top executives were regarding the safety of their bestselling weedkiller Roundup and the great lengths they went to manipulate the science in front of regulatory bodies and misled the media, the public and even America's family farmers.

## Why should there currently be no 'safe' level of Glyphosate in our food?

It is first important to understand how the 'safe' level of any toxic chemical is set. Currently the U.S. EPA sets a Reference Dose (RfD), which is known as the Acceptable Daily Intake (ADI) in Europe, by taking the lowest no observed adverse effect level (NOAEL) from animal studies and dividing it by 100.

For glyphosate, the current RfD in the U.S is 1.75 milligrams / kilogram of bodyweight / per day or 1.75 mg / kg bw / day. It may not surprise our readers to know that the ADI in Europe is more than 5x less at 0.3 mg/kg bw /day, even though the regulators there base their ADI on the same industry studies as in the U.S. - Do you feel safe yet?

The big problem is that both the RfD in the U.S. and

the ADI in the EU have already been proven to be far too high by independent peer-reviewed studies.

- In the pilot phase of the most comprehensive study ever done on glyphosate and glyphosate-based herbicides the Global Glyphosate Study it was shown that glyphosate-based herbicides cause genotoxicity, alteration of the intestinal microbiome as well as reproductive and developmental effects in both male and female rats, at the currently considered safe level in the U.S. of 1.75 mg / kg bw / day.<sup>93, 94, 95</sup>
- Other peer-reviewed studies have also shown change in gene function and DNA Damage at the 1.75 mg /kg bw /day level.<sup>96</sup>

This would normally mean that the EPA's current RfD safe level should be reduced by at least 100x. However, even that may not be enough of a reduction, as in smaller non-comprehensive peer-reviewed studies, levels that are lower than 0.1 mg/kg have been shown to cause serious kidney and liver damage in rats.<sup>97</sup>

Currently, we do not know the full effects on our health effects of glyphosate exposure at very low levels and we thus must follow the precautionary principle and ban the product from being sold immediately. It is simply not yet possible to set a safe level for glyphosate exposure and anyone who attempts to do so is bending the science.

The best we can do for now is to avoid foods and drinks that have levels over the internationally recognized reliable limit of detection for glyphosate in laboratories of 0.01 mg/kg (10 ppb), which can be done by consuming brands that are certified Glyphosate Residue Free.

|     | Top Glyphosate Residues found in Major Brand Stores and Health Foods |                        |                             |                    |  |  |
|-----|--|------------------------|-----------------------------|--------------------|--|--|
|     | Product  | Brand                  | Level                       | Store              |  |  |
| 1.  | 100% Whole Wheat<br>Bread  | Village<br>Hearth      | 1,150 ppb                   | HyVee.             |  |  |
| 2.  | Whole Wheat<br>Sandwich Bread  | 365 WHOLE FOODS MARKET | 1,040 ppb W NON GMO Project | WHÔLE FOODS        |  |  |
| 3.  | Chickpeas  | Great<br>Value         | 889 ppb                     | Walmart :          |  |  |
| 4.  | 100% Whole Grain<br>Wheat Bread                                      | PEPPERIDGE FARM        | 587 ppb                     | Hybee.             |  |  |
| 5.  | Quaker Oats  | QUAKER                 | 535 ppb WON GMO Project     | typee.             |  |  |
| 6.  | Jewish Rye &<br>Pumpernickel Deli<br>Swirl Bread                     | PEPPERIDGE FARM        | 531 ppb                     | Hybec.             |  |  |
| 7.  | 100% Whole Wheat<br>Sandwich Bread                                   | market                 | 348 ppb                     | • TARGET           |  |  |
| 8.  | 100% Whole<br>Wheat Bread  | Great<br>Value         | 340 ppb                     | Walmart :          |  |  |
| 9.  | Rice, Peas, Black<br>Beans   | EATEN<br>Path          | 301ppb NON GMO Project      | • TARGET           |  |  |
| 10  | 100% Whole<br>Wheat Bread  | Sarafee                | 284 ppb                     | • TARGET           |  |  |
|     |  |                        |                             |                    |  |  |
| 11. | Garbanzo Beans   | Hybee empore owner     | 246 ppb                     | Hy/ee <sub>s</sub> |  |  |
| 12. | Fresh Milled Oats  | The Grainery           | 214 ppb                     | Hy/ee.             |  |  |
| 13. | 100% Whole<br>Wheat Bread  | Hybee.                 | 211 ppb                     | HyVee.             |  |  |
| 14  | Green Split Peas   | Godå<br>Gather         | 168 ppb                     | • TARGET           |  |  |
| 15. | Chickpeas  | Great<br>Value         | 165 ppb                     | Walmart >          |  |  |

The testing of these products was carried out using a gold standard mass spectrometry method at a third-party ISO 17025 and CDFA accredited laboratory - Lab reports are available upon request.

| 16. Red Lentils Non-GMO        | NATURAL GRÉCERS        | 144 ppb W NON GMO Project | NATURAL GRÉCERS  |
|--------------------------------|------------------------|---------------------------|--|
| 17. Barley & Lentils           | 365 WHOLE FOODS MARKET | 134 ppb NON GMO Project   | WHOLE FOODS  |
| 18. <b>Garbanzo Beans</b>      | Good&<br>Gather        | 124 ppb                   | • TARGET   |
| 19. Cheeri Oats Cheerios       | GENERAL MILLS          | 118 ppb                   | HyVee.   |
| 20. Seeded Hearty Rye<br>Bread | THE EMPLOYEE OWNED     | 88 ppb                    | THE PERSONNEL STATES OF THE PE |
|                                |                        |                           |  |
| 21. Black Beans                | Great<br>Value.        | 82 ppb                    | Walmart >  |
| 22. Wheat Bread                | Great<br>Value.        | 63 ppb                    | Walmart >  |
| 23. Chickpea Flour             | Bobs Bed Till          | 62 ppb WON GMO Project    | <b>O TARGET</b>  |
| 24. Red Lentils                | Bobs Bed Till          | 57 ppb WON GMO Project    | WHÔLE FOODS  |
| 25. <b>Green Split Peas</b>    | Great<br>Value         | 55 ppb                    | Walmart 💢  |
| 26. Pinto Beans                | Great<br>Value.        | 54 ppb                    | Walmart 💢  |
| 27. Lentils                    | Good&<br>Gather        | 50 ppb                    | • TARGET   |
| 28. Organic Split Peas         | 365 WHOLE FOOS MARKET  | 49 ppb USDA               | WHÔLE FOODS  |
| 29. Honey Whole Wheat          | BIG SKY BREAD          | 42 ppb                    | WHOLE FOODS  |
| 30. Chickpeas, Black<br>Beans  | EATEN<br>Path          | 38 ppb WON GMO Project    | • TARGET   |

| 31. Pinto Beans<br>Non-GMO               | NATURAL GRÉCERS        | 31 ppb W SMO GMO Project | NATURAL GRUCERS |
|--|------------------------|--------------------------|-----------------|
| 32. Pinto Beans                          | Hybee.                 | 27 ppb                   | H4Vee.          |
| 33. Organic Thick<br>Rolled Oats         | NATURAL GRÉCERS        | 26 ppb USDA              | NATURAL GROCERS |
| 34. Pinto Beans                          | Good&<br>Gather        | 18 ppb                   | • TARGET        |
| 35. Organic Garbanzo<br>Beans            |                        | 17 ppb NON GMO ORGANIC   | HyVee.          |
| 36. Oatnut Whole Grain<br>Bread          | BROWNBERRY             | 17 ppb                   | • TARGET        |
| 37. Organic Steel Cut Oats               | 365 WHOLE FOODS MARKET | 13 ppb NON GMO ORGANIC   | WHÔLE FOODS     |
| 38 .7-Grain Bread<br>Sprouted Wholegrain | angelic                | 12 ppb WON GMO Project   | WHÖLE FOODS     |

|    | Protein Bars and Shakes                                |                       |                          |             |  |  |
|----|--|-----------------------|--------------------------|-------------|--|--|
|    | Product  | Brand                 | Level                    | Store       |  |  |
| 1. | Onnit Plant-Based<br>Protein-Chocolate                 |                       | 134 ppb                  | amazon      |  |  |
| 2. | Nature's Best<br>Plant Based Vegan<br>Protein Powder   | NATURE'S BEST         | 70 ppb (NON GMO)         | amazon      |  |  |
| 3. | Garden of Life Raw<br>Organic Fit Powder,<br>Chocolate | Garden of Life        | 54 ppb NON SMO ORBANIC   | amazon      |  |  |
| 4. | Vega One All-in-One<br>Nutritional Shake,<br>Chocolate | vega                  | 54 ppb W NON GMO Project | amazon      |  |  |
| 5. | Ka-Chava Meal<br>Replacement Shake                     | KA'CHAVA'             | 37 ppb                   | amazon      |  |  |
| 6. | Plant Protein &<br>Greens, French<br>Vanilla           | 365 WHOLE FOOS MARKET | 31 ppb W SMO Project     | WHOLE FOODS |  |  |
| 7. | Now Sports<br>Nutrition, Pea<br>Protein 24 G           |                       | 29 ppb WON GMO Project   | amazon      |  |  |

| 8. Nature Valley Chewy<br>Granola Bars, Protein<br>Variety Pack | NATURE VALLEY | 20 ppb           | amazon |
|---|---------------|------------------|--------|
| 9. Think! High Protein Bars- Chocolate Crisp                    | think!        | 14 ppb (NON GMO) | amazon |

| High Risk Ingredients List for Glyphosate Contamination |                        |           |                            |                       |
|---|------------------------|-----------|----------------------------|-----------------------|
| Bread   | 16                     |           |                            |                       |
| Wheat   |                        |           |                            |                       |
| 100% Whole Wheat<br>Bread                               | Village<br>Hearth      | 1,150 ppb | THE EMPLOYEE OWNED         |                       |
| Whole Wheat<br>Sandwich Bread                           | 365 WHOLE FOODS MARKET | 1,040 ppb | WHÖLE FOODS<br>M A R R E T | NON<br>GMO<br>Project |
| 100% Whole Grain<br>Whole Wheat<br>Bread                | PEPPERIDGE FARM        | 587 ppb   | THE EMPLOYEE OWNED         |                       |
| 100% Whole Wheat<br>Sandwich Bread                      | market pantry          | 348 ppb   | • TARGET                   |                       |
| 100% Whole Wheat<br>Bread                               | Great<br>Value.        | 340 ppb   | Walmart >                  |                       |
| 100% Whole Wheat<br>Bread                               | Sarafee                | 284 ppb   | • TARGET                   |                       |
| 100% Whole Wheat<br>Bread                               | THE EMPLOYEE OWNED     | 211 ppb   | THE EMPLOYEE OWNED         |                       |
| Wheat Bread   | Great<br>Value         | 63 ppb    | Walmart >                  |                       |
| Honey Whole<br>Wheat                                    | BIG SKY BREAD          | 42 ppb    | WHÖLE FOODS                |                       |
| Oatnut Whole<br>Grains Bread                            | BROWNBERRY             | 17 ppb    | • TARGET                   |                       |
| 7-Grain Bread<br>Sprouted<br>Wholegrain                 | angelic                | 12 ppb    | WHÖLE FOODS                | NON<br>GMO<br>Project |
| Rye   |                        |           |                            |                       |
| Jewish Rye &<br>Pumpernickel Deli<br>Swirl Bread        | PEPPERIDGE FARM        | 531 ppb   | tty/ce                     |                       |
| Seeded Hearty Rye<br>Bread                              | THE EMPLOYEE OWNED     | 88 ppb    | THE EMPLOYEE OWNED         |                       |
| 7-Grain Bread<br>Sprouted<br>Wholegrain Rye<br>Bread    | angelic                | 12 ppb    | WHÔLE FOODS                | NON<br>GMO<br>Project |

| Oats                         | 6                      |         |                 |                              |
|------------------------------|------------------------|---------|-----------------|------------------------------|
| Quaker Oats                  | QUAKER                 | 535 ppb | Typee.          | NON<br>GMO<br>Project        |
| Fresh Milled Oats            | The Grainery           | 214 ppb | Hybee.          |                              |
| Cheeri oats                  | GENERAL MILLS          | 118 ppb | • TARGET        |                              |
| Organic Thick<br>Rolled Oats | NATURAL GRÉCERS        | 26 ppb  | MATURAL GRÉCERS | USDA                         |
| Organic Steel Cut<br>Oats    | WHÖLE FOODS            | 13 ppb  | WHOLE FOODS     | NON<br>GMO<br>Project        |
| Barley                       | 3                      |         |                 |                              |
| Barley & Lentils             | 365 WHOLE FOODS MARKET | 134 ppb | WHOLE FOODS     | NON<br>GMO<br>Project        |
| Beans                        |                        |         |                 |                              |
| Chickpeas                    | Great<br>Value.        | 889 ppb | Walmart 🔆       |                              |
| Rice, Peas, Black<br>Beans   | EATEN<br>Path          | 301 ppb | <b>O TARGET</b> | NON<br>GMO<br>Project        |
| Garbanzo Beans               | Hybee.                 | 246 ppb | TyVee.          |                              |
| Chickpeas                    | Great<br>Value.        | 165 ppb | Walmart 💢       |                              |
| Garbanzo Beans               | Godå<br>Gatter         | 124 ppb | • TARGET        |                              |
| Organic Garbanzo<br>Beans    |                        | 17 ppb  | thy Vee         | NON GMO Project USDA ORBANIC |
| Black Beans                  | Great<br>Value         | 82 ppb  | Walmart 💢       |                              |
| Pinto Beans                  | Great<br>Value.        | 54 ppb  | Walmart 🔆       |                              |
| Pinto Beans<br>Non-GMO       | NATURAL GRÉCERS        | 31 ppb  | NATURAL GRÉCERS | NON<br>GMO<br>Project        |
| Pinto Beans                  | THE EMPLOYEE OWNERS    | 27 ppb  | TyVee.          |                              |

| Chickpea Flour   | Bobs Red Will  Remarks The Company of the Company o | 62 ppb  | • TARGET        | NON<br>GMO<br>Project                 |
|--|--|---------|-----------------|---------------------------------------|
| Chickpeas, Black<br>Beans                              | EATEN<br>Path  | 38 ppb  | • TARGET.       | NON<br>GMO<br>Project                 |
| Pinto Beans  | Good&<br>Gather  | 18 ppb  | • TARGET        |                                       |
| Peas   | 5  |         |                 |                                       |
| Green Split Peas                                       | Good&<br>Gather  | 168 ppb | • TARGET        |                                       |
| Green Split Peas                                       | Great<br>Value   | 55 ppb  | Walmart :       |                                       |
| Organic Split Peas                                     | 365 WHOLE FOODS MARKET   | 49 ppb  | WHÔLE FOODS     | USDA                                  |
| Lentils  | 10   |         |                 |                                       |
| Lentils  | THE EMPLOYEE OWNED   | 535 ppb | TYPEE OWNED     |                                       |
| Red Lentils<br>Non-GMO                                 | NATURAL GRÉCERS  | 144 ppb | NATURAL GRÉCERS |                                       |
| Red Lentils  | Bobs Red Will  | 57 ppb  | WHÔLE FOODS     | NON<br>GMO<br>Project                 |
| Lentils  | Good&<br>Gather  | 50 ppb  | • TARGET        | NON<br>GMO<br>Project                 |
| Pea/Pumpkin Seed                                       |  |         |                 |                                       |
| Onnit Plant-Based<br>Protein - Chocolate               |  | 134 ppb | amazon          |                                       |
| Whole Foods Own<br>Brand Plant-Based                   | WHÖLE FOODS  | 31 ppb  | WHÔLE FOODS     |                                       |
| Pea/Brown Rice   |  |         |                 |                                       |
| Nature's Best<br>Plant Based Vegan<br>Protein Powder   | NATURE'S BEST  | 70 ppb  | amazon          |                                       |
| Garden of Life Raw<br>Organic Fit Powder,<br>Chocolate | Garden of Life   | 54 ppb  | amazon          | NON                                   |
| Kachava meal replacement shake                         | KA'CHAVA'  | 37 ppb  | amazon          | NON<br>GMO<br>Project USDA<br>GREANIC |

| Pea/Flax  |               |        |        |                       |
|---|---------------|--------|--------|-----------------------|
| Vega One All-in-<br>One Nutritional<br>Shake, Chocolate         | vega          | 54 ppb | amazon | NON<br>GMO<br>Project |
| Pea   |               |        |        |                       |
| Now Sports<br>Nutrition, Pea<br>Protein 24 G                    | Page 1        | 29 ppb | amazon | NON<br>GMO<br>Project |
| Soy   |               |        |        |                       |
| Nature Valley<br>Chewy Granola<br>Bars, Protein<br>Variety Pack | NATURE VALLEY | 20 ppb | amazon |                       |
| Soy/Milk/Whey   |               |        |        |                       |
| Think! High Protein<br>Bars -                                   | think!        | 14 ppb | amazon | NON<br>GMO<br>Project |

#### Addendum:

|     | Foods Tested that Found No-Detectable Levels of Glyphosate |                 |                              |                 |  |  |
|-----|--|-----------------|------------------------------|-----------------|--|--|
|     | Product  | Brand           | Level                        | Store           |  |  |
| 1.  | Black Eyed Peas  | Hybee OHNED     | non-detect                   | Hybee owner     |  |  |
| 2.  | Lentils  | H4Vee.          | non-detect                   | H4Vee.          |  |  |
| 3.  | Old Fashioned Oats   | Hybee SWHED     | non-detect                   | H4Vee           |  |  |
| 4.  | Organic Garbanzo<br>Beans                                  | NATURAL GRÉCERS | non-detect USDA              | NATURAL GRÉCERS |  |  |
| 5.  | Organic Green<br>Lentils                                   | NATURAL GRÉCERS | non-detect USDA              | NATURAL GRÉCERS |  |  |
| 6.  | Organic Pinto Beans  | NATURAL GRÉCERS | non-detect USDA              | NATURAL GRÉCERS |  |  |
| 7.  | Organic Soy Beans  | NATURAL GRÉCERS | non-detect USDA ORGANIC      | NATURAL GRÉCERS |  |  |
| 8.  | Green Lentils<br>Non-GMO                                   | NATURAL GRÉCERS | non-detect W NON GMO Project | NATURAL GRÉCERS |  |  |
| 9.  | Green Split Peas<br>Non-GMO                                | NATURAL GRÉCERS | non-detect NON GMO Project   | NATURAL GRÜCERS |  |  |
|     | ı  |                 |                              |                 |  |  |
| 10  | Blackeye Peas  | Good&<br>Gather | non-detect                   | • TARGET        |  |  |
| 11. | Great Northern<br>Beans                                    | Good&<br>Gather | non-detect                   | • TARGET        |  |  |
| 12. | Pearled Barley   | Good&<br>Gather | non-detect                   | • TARGET        |  |  |
| 13. | Great Northern<br>Beans                                    | Great<br>Value. | non-detect                   | Walmart 💢       |  |  |

| 30. Vega Protein Snack<br>Bar, Chocolate<br>Peanut Butter         | vega                    | non detect NON GMO Project | amazon                     |
|---|-------------------------|----------------------------|----------------------------|
| 29. Primal Kitchen<br>Macadamia Sea Salt<br>Collagen Protein Bars | PRIMAL<br>KITCHEN       | non detect                 | amazon                     |
| 28. Pure Protein Bars,<br>High Protein                            | PURE<br>PROTEIN         | non detect                 | amazon                     |
| 27. Plantfusion Complete<br>Plant Based Pea<br>Protein Powder     | PlantFusion.            | non detect                 | amazon                     |
| 26. Pescience Select<br>Vegan Plant Based<br>Protein Powder       | PESCIENCE               | non detect                 | amazon                     |
| 25. Organic Sprouted<br>Whole Grains Thin-<br>Sliced Bread        |                         | non-detect USDA ORGANIC    | WHÔLE FOODS                |
| 24. Onnit Protein Bar -<br>Vanilla Almond                         |                         | non detect                 |                            |
| 23. Oatmega Protein<br>Bars, Chocolate<br>Brownie                 | OATMEGA®                | non-detect NON GMO Project | amazon                     |
| 22. No Cow Protein Bars,<br>Peanut Butter Lovers<br>Pack          | no cow.                 | non-detect NON GMO Project | amazon                     |
| 21. Larabar Gluten Free<br>Bar Peanut Butter<br>Chocolate Chip    | LARABAR                 | non detect NON GMO Project | amazon                     |
| 20. Larabar Fruit and Nut<br>Bar, Lemon Gluten<br>Free, Vegan     | LÄRABAR                 | non detect NON GMO Project | amazon                     |
| 19. KOS Organic Plant<br>Based Protein<br>Powder, Chocolate       | KOS                     | non-detect USDA ORGANIC    | amazon                     |
| 18. Kind Healthy Snack Bar, Caramel Almonds & Sea Salt            | KIND                    | non detect                 | amazon                     |
| 17. Kind Health Snack<br>Bar, Blueberry Vanilla<br>Cashew         | KIND                    | non detect                 | amazon                     |
| 16. Clif Whey Protein-<br>Gluten Free Snacks<br>Bars-Variety Pack | CLIF CLIF BAR & COMPANY | non detect                 | amazon                     |
| 15. Bobo's Peanut Butter<br>Chocolate Chip<br>Oat Bar             | вовоз                   | non detect NON GMO Project | WHÔLE FOODS                |
| 14. Bobo's Original<br>Oat Bar                                    | вовох                   | non detect NON GMO Project | WHÔLE FOODS<br>M A R R E T |

| 31. Sprouted Power<br>Little Big Bread | Silver Hills SPROUTED BAKERY | non detect W NON GMO Project | WHÔLE FOODS |
|--|------------------------------|------------------------------|-------------|
| 32. Organic Green<br>Lentils, 365      | 365 WHOLE FOODS MARKET       | non-detect USDA              | WHÖLE FOODS |
| 33. Organic Italian<br>Barley, 365     | 365 WHOLE FOODS MARKET       | non-detect USDA              | WHÖLE FOODS |
| 34. Organic Red Lentils,<br>365        | 365 WHOLE FOODS MARKET       | non-detect USDA              | WHÖLE FOODS |
| 35. Organic Green<br>Lentils           | Mountain High<br>Organics    | non-detect USDA              | WHÖLE FOODS |
| 36. Organic Rolled Oats                | WHÖLE FOODS                  | non-detect USDA              | WHÖLE FOODS |
| 37. Organic Red Split<br>Lentils       | Mountain High Organics       | non-detect USDA              | WHÖLE FOODS |
| 38. Organic Garbanzo<br>Beans          | FARMER<br>DIRECT<br>ORGANIO  | non-detect USDA              | WHÖLE FOODS |
| 39. Organic Pinto Beans                | FARMER<br>DIRECT<br>ORGANIC  | non-detect USDA ORGANIC      | WHÔLE FOODS |

|     | Glyphosate Contamination Found in Non-GMO Foods        |  |           |                 |
|-----|--|--|-----------|-----------------|
|     | Product  | Brand  | Level     | Store           |
| 1.  | Whole Wheat<br>Sandwich Bread                          | 365 WHOLE FOODS MARKET   | 1,040 ppb | WHÖLE FOODS     |
| 2.  | Quaker Oats  | QUAKER   | 535 ppb   | Hybee.          |
| 3.  | Rice, Peas, Black<br>Beans                             | <b>ÉATEN</b><br>Path   | 301 ppb   | <b>O TARGET</b> |
| 4.  | Red Lentils<br>Non-GMO                                 | NATURAL GRÉCERS  | 144 ppb   | NATURAL GRÜCERS |
| 5.  | Barley & Lentils                                       | 365 WHOLE FOODS MARKET   | 134 ppb   | WHÔLE FOODS     |
| 6.  | Nature's Best<br>Plant Based Vegan<br>Protein Powder   | NATURE'S BEST  | 70 ppb    | amazon          |
| 7.  | Chickpea Flour   | Bobs Bed Mill  The rest of the | 62 ppb    | • TARGET        |
| 8.  | Red Lentils  | Bobs Bed Mill  | 57 ppb    | WHÔLE FOODS     |
| 9.  | Garden of Life Raw<br>Organic Fit Powder,<br>Chocolate | Garden of Life   | 54 ppb    | amazon          |
| 10. | Vega One All-in-One<br>Nutritional Shake,<br>Chocolate | vega   | 54 ppb    | amazon          |
| 11. | Chickpeas, Black<br>Beans                              | <b>EATEN</b><br>Path   | 38 ppb    | • TARGET        |
| 12. | Pinto Beans<br>Non-GMO                                 | NATURAL GRÉCERS  | 31 ppb    | NATURAL GRÜCERS |
| 13. | Plant Protein &<br>Greens, French<br>Vanilla           | 365 WHOLE FOODS MARKET   | 31 ppb    | WHÔLE FOODS     |
| 14. | Now Sports<br>Nutrition, Pea<br>Protein 24 G           |  | 29 ppb    | amazon          |
| 15. | Organic Garbanzo<br>Beans                              |  | 17 ppb    | HyVee.          |
| 16. | Think! High Protein<br>Bars- Chocolate<br>Crisp        | think!   | 14 ppb    | amazon          |

| 17. Organic Steel Cut<br>Oats                | 365 WHOLE FOODS MARKET | 13 ppb | WHOLE FOODS |
|--|------------------------|--------|-------------|
| 18. <b>7-Grain Bread</b> Sprouted Wholegrain | angelic                | 12 ppb | WHOLE FOODS |

|    | Glyphosate Contamination Found in Organic Foods        |                             |        |                            |
|----|--|-----------------------------|--------|----------------------------|
|    | Product  | Brand                       | Level  | Store                      |
| 1. | Garden of Life Raw<br>Organic Fit Powder,<br>Chocolate | Garden of Life              | 54 ppb | amazon                     |
| 2. | Organic Split Peas,<br>365                             | 365 WHOLE FOODS WHOLE FOODS | 49 ppb | WHÔLE FOODS                |
| 3. | Organic Thick<br>Rolled Oats                           | NATURAL GRÉCERS             | 26 ppb | NATURAL GRÉCERS            |
| 4. | Organic Garbanzo<br>Beans                              |                             | 17 ppb | Hybee.                     |
| 5. | Organic Steel<br>Cut Oats                              | WHÔLE FOODS<br>M A R K E T  | 13 ppb | WHÔLE FOODS<br>M A R K E T |



#### **David Murphy**

David Murphy is a leading American policy expert and social entrepreneur dedicated to reforming our global food, agriculture, and public health systems. A 6th generation lowan, Murphy has over 20 years of experience in political strategy, public policy, and fundraising.

During his career, Murphy advised over 7 presidential campaigns on food, agriculture, climate, rural economic policies, and strategies to win over voters. Murphy helped pass more than 2 dozen pieces of legislation and Farm Bill amendments to bring transparency, environmental protections, and fair market access for farmers, shaping public policies at the local, state, and federal levels.

Since 2007, he has met with and briefed elected officials, department heads at the USDA, FDA, members of Congress, and the White House on issues ranging from local school lunch programs, antitrust enforcement, soil health, climate change, and policies to promote the urgent shift to regenerative farming practices.

In 2008, he founded Food Democracy Now!, a grassroots network of 650,000 farmers and citizens dedicated to reforming food and agriculture. In the past 4 years, Murphy has helped write and edit 3 Congressional testimonies that call for a transition to better soil health and regenerative practices and coordinated a grazing workshop with top leaders in the regenerative agriculture movement.

#### **Henry Rowlands**

Henry's family have been involved in reducing our exposure to toxic chemicals and regenerative agriculture for four generations. He himself grew up on the family organic sheep farm in Wales.

Following work as a news agency journalist across Europe, Henry moved on to set up Sustainable Pulse, which is a popular online global media that focuses on sustainable agriculture and sustainable food.

In 2015, Henry also set up The Detox Project, which provides Glyphosate Residue Free certification to show that food, supplement and beauty products do not contain the world's most used weed-killer. The Glyphosate Residue Free certification market has reached over USD \$800 M in 6 years.

Alongside his work on toxics Henry's work on regenerative agriculture has involved a concentration on the metrics required to enable global scaling. Henry is the Co-Founder of Regenerative Hubs, which concentrates on uplifting women out of poverty in Africa and India through climate friendly agriculture, Henry is also the Co-Founder and CEO of Soil in Formation, PBC, a ground-making soil measurement, reporting and verification data company based in the U.S.

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