



# Stop Pesticide Poisonings!

A time travel through international pesticide policies

3rd updated and extended edition



A healthy world for all.

Protect humanity and the environment from pesticides. Promote alternatives.

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# Stop Pesticide Poisonings!

## Summary

**“Stop Pesticide Poisonings” depicts why a growing number of individuals and organisations no longer believe that training can achieve so called “safe use” of hazardous pesticides.** Instead, many bodies call for a progressive ban of hazardous pesticides and support a systematic phase-in of agro-ecological approaches to produce food and fibre and to manage plant pests and diseases in agriculture. Stop Pesticide Poisonings takes the reader on a journey through the years since pesticide poisonings in developing countries first came to international attention. It highlights the global efforts to solve pesticide-related problems, and looks behind the statements and statistics of dangerous pesticide use and poisonings in developing countries.

The key message of Stop Pesticide Poisonings is that “safe use of highly hazardous pesticides” is not possible, especially in developing countries. It suggests the urgent need for a progressive ban of highly hazardous pesticides, while phasing in sustainable, ecosystem-based plant production systems.

Actions need the support not only of governments, but also of the whole fabric of society: particularly producers, traders and consumers of agricultural goods. ‘A call for action’ highlights actions that governments, the pesticide industry and food and fibre producers, processors and distributors should undertake to contribute to the development of a less toxic agricultural system. Consumers can have a strong influence by calling on those actors to increase safety within the food and fibre chain. A particular focus should be on those who suffer most: small scale farmers and agricultural workers who live in extremely unsafe and poor conditions.



Carina Weber, December 2016



Pesticides  
are undermining  
our children's health  
and intelligence.<sup>1</sup>

# A time travel through three decades of international pesticide policies

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## An influential book opens eyes and triggers action

1981

**The problems of pesticides in developing countries became an international public issue about three decades ago**, largely triggered by publication of the *Circle of Poison* in 1981. It was written by two investigative journalists, David Weir and Marc Shapiro, and presented facts and figures about pesticide-related problems. For the first time, pesticide victims in developing countries had a voice.

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The two authors followed the trail of how pesticides produced and restricted in the global North are exported to poor countries, where they are sold indiscriminately to untrained farmers who lack appropriate personal protective equipment. They reported how pesticides cause widespread sickness and death in Africa, Asia and Latin America. And they recorded how these pesticides come back to industrialised countries in the Global North as residues in food and feed, where they can cause harm to the health of consumers. At the end of their book Weir and Shapiro asked people all over the world to help break this circle of poison.

The *Circle of Poison* was a key stimulus for founding the global Pesticide Action Network (PAN) in 1982. PAN undertook to address human and environmental health problems caused by aggressively advertised and marketed pesticide products for chemically intensive agricultural systems.

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## A PAN activist calls for tougher standards

1982

**One year later, in 1982, another influential book was published. The author, David Bull, was one of the first activists of the international PAN.** *A Growing Problem: Pesticides and the Third World Poor* detailed the scale of health and environmental problems in developing countries caused by pesticides. It stressed the urgency of carrying out effective action to counter the widespread ill-health and environmental distress being caused by pesticides.

PAN was founded and urged the FAO to produce a model code of practice on international trade in pesticides and pesticide use.

At that time many developing countries had no plant protection legislation. David Bull and other PAN activists urged the FAO to produce a model code of practice on international trade in pesticides and pesticide use. They urged governments to adopt appropriate pesticide legislation with effective implementation and monitoring. Legislation and good regulatory standards were seen as the first step to counter pesticide problems.

















*The impact of training in proper pesticide use continues to be questioned and can not be regarded as a solution for risks associated with the use of highly hazardous products...<sup>9</sup>*



# Health effects of pesticides

**Since the 1940s, the amount of synthetic chemical pesticides used annually worldwide has increased, resulting in considerable human health hazards.** At present, due to contamination of the environment and the food chain, presumably all populations worldwide are effected by pesticide contamination and face the threat of chronic health disorders. Particularly at-risk are people employed in agriculture because they are directly exposed to pesticides and frequently suffer from acute as well as chronic poisoning symptoms. A large number of highly hazardous pesticides are easily available, especially in developing countries, and many of them are used in agriculture, often even without appropriate protective clothing.

**Even though pesticides are poisons sold in very large amounts accurate global statistics on health effects of pesticides are not available. Estimates range from one million to 41 million people affected every year.** Most estimates exclude chronic poisonings and pesticide-related disease; and they reflect only the most severe cases, significantly underestimating unintentional pesticide poisonings because the figures are based primarily on hospital registries. However, most rural poor have no access to hospitals, and doctors and healthcare workers often fail to recognize and report poisoning cases. In Central America the under-reporting rate has been documented as 98%.<sup>14</sup> Surveys based on direct observation of agricultural workers provide estimates of acute health effects ranging from 2% to 10% of workers affected, and observations yield estimates ranging from 9% to 66%.<sup>15</sup>

## For further reading:

- ▶ PAN Asia and the Pacific (2013): Poisoning our Future: Children and pesticides.
- ▶ PAN North America (2012): A Generation in jeopardy: How pesticides are undermining our children's health & intelligence.
- ▶ PAN Germany (2012): Pesticides and health hazards: Facts and figures.



# A call for action

Stop  
Pesticide  
Poisonings!

**Solutions developed in the past cannot be used to address current pesticide-related problems:** they have failed to stop pesticide poisonings, especially in developing countries.

## Governments should:

- ▶ Adopt a pro-health, precautionary approach to regulating pesticides, based on hazard assessment rather than risk assessment
- ▶ Phase out highly hazardous pesticides and replace them with the rapid deployment of ecosystem-based approaches to food and fibre production such as agroecology and organics
- ▶ Make pesticide manufacturers and distributors legally liable for human health and ecosystem harm
- ▶ Levy sales of pesticides to fund extension services that deploy ecosystem-based practices
- ▶ Establish no-spray buffer zones between fields that are sprayed and families and communities
- ▶ Rapidly implement international conventions related to pesticides
- ▶ Enact “right to information” regulations to ensure communities and agricultural workers are provided with full information on the pesticides that they are exposed to or spray.

... adopt a policy to phase out highly hazardous pesticides and support ecosystem-based approaches to agricultural production.

## Pesticide industry should:

- ▶ Cease the manufacture of highly hazardous pesticides and shift production to biopesticides, biological controls and other safer pest management options
- ▶ Adopt the life-cycle concept of pesticide management (Code of Conduct Article 1.7.5)
- ▶ Establish collection schemes for empty pesticide containers throughout all rural areas, including take-back for all manufacturers and sellers
- ▶ Ensure that pesticides from cradle to grave – production to disposal – are handled only by people who are properly trained.

... cease the manufacture of highly hazardous pesticides.

## The food and fibre industry should:

- ▶ Use market influence to implement the replacement of highly hazardous pesticides with ecosystem-based approaches to agricultural production, especially in developing countries
- ▶ Develop and communicate a plan to support and/or implement the progressive phase-out of highly hazardous pesticides
- ▶ Share information on alternatives to highly hazardous pesticides with farmers and the public
- ▶ Promote transparency of pesticide use.

... support and share information on alternatives.







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**PAN Germany** is a charitable organisation which provides information on the adverse effects of pesticides and promotes environmentally friendly and socially just alternatives. We are part of the Pesticide Action Network International. Our work areas range from critical assessments of the pesticide industry to constructive interaction with policy-makers to practical services for farmers and consumers.

**A healthy world for all.** Protect humanity and the environment from pesticides. Promote alternatives.

