Pesticide Action Network Europe

Making EU cities a safe place for children

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CONTENTS

-Three studies we conducted in South-Tyrol (North-Italy)

- Cooperation leading scientists and NGOs

- Gras samples on non-target areas (mainly playgrounds)

- Analysed on pesticide residues (up to 300 active substances)

- Apples and wine production

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HEAL HEALTH AND ENVIRONMENT ALLIANCE

BOKU University of Natural Resources and Life Sciences, Vienna

UMWELTSTIFTUNG | GREENPEACE

PAN Germany Pestizid Aktions-Netzwerk e.V.

Istituto Ramazzini COOPERATIVA SOCIALE ONLUS

HOLLAWINT

Dachverband für Natur- und Umweltschutz in Südtirol

European Greens verdi • grüne • vërc Gruppo Verde in Consiglio Provinciale Grüne Fraktion im Landtag

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DER MALSER WEG · LA VIA DI MALLES · LA VIA DA DAMAL

STUDY 1 : Pesticide contamination and associated risk factors at public playgrounds near intensively managed apple and wine orchards

Environmental Sciences Europe, 2019

STUDY SET-UP & RESULTS

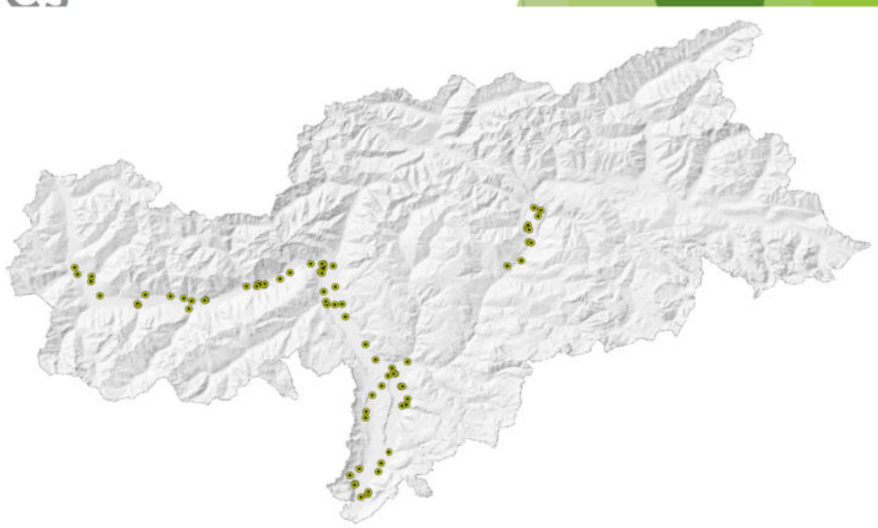
-71 gras samples on playground in spring 2017, screened on 315 different substances

- 4 geographical clusters // far-near cluster

- Almost 50% were contaminated with residues (mainly Phosmet and Fluazinam)

- 11 of 12 detected pesticides were EDCs

- Geographical differences



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STUDY 2 : Year-round pesticide contamination of public sites near intensively managed agricultural areas in South Tyrol

Environmental Sciences Europe, 2021

STUDY SET-UP & RESULTS

-Year-round analysis of 24 different playgrounds (4 different seasons)

- 33 different substances were found in 96% of the playgrounds

- 79% with more than one residue // 76% EDCs

- 83% spring / 79% summer / 50% autumn / 17% winter

- number of residues, their concentrations, and the proportion of contaminated sites varied across seasons

- Multiple residues (1 sample site with 11 different substances)

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STUDY 3 : Pesticide drift mitigation measures appear to reduce contamination of non-agricultural areas, but hazards to humans and the environment remain

Science of the Total Environment, 2022

STUDY SET-UP & RESULTS

- Study period 2014 – 2020
- 306 gras samples analysed on pesticide residues
- 88 different sample sides
- Gras samples on non-target areas (mainly playgrounds)
- Analysed on pesticide residues (up to 300 actives substances)
- Apples and wine production

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KEY FINDINGS

- 73% of sampled sites at least 1 residue / 27% with multiply residues
- Fluazinam 74% of contaminated sites // Captan 60% // Phosmet 49%
- Residues «Harm to human reproduction» 21% (2014) → 88% (2020)
- Residues «Harm to certain organs» 0% (2014) → 21% (2020)
- Residues «EDC» 89% unchanged 2014-2020
- Residues «Carcinogenic» 45% - unchanged 2014-2020
- Exceeding MRL for Lettuce – above save-levels // no safe level for EDCs
- Lettuce samples (2022) – residues on all 11 samples // DDT-Metabolite
- Acute toxicity to honeybees remained high

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SUR – improvements NEEDED

- Binding Reduction Targets align with ECI Save Bees and Farmers
- Prohibit use of pesticides in and around sensitive zones
- Proposed measures by EU are less strong than the measures in South-Tyrol, but our study showed that it is still not enough
- Bufferzones – minimum 50 meters
- Proposal by UN-Special Rapporteur Marcos A. Orellana – latest report
- Farm2Fork and EUGreenDeal /// CAP link to agroecological measures
- Approval process for pesticides need to be changed

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CETERUM CENSEO PESTICIDIA ESSE INTERDICENDA

(Furthermore and above all, I believe pesticides should be banned)

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