

Dangerous chemicals causing sex changes in frogs? Yes, natural ones

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It's not easy being a frog. These insect-chomping, sonorous creatures are under severe pressure, their populations plunging both [nationally](#) and [globally](#). Evidence has mounted for years that agrichemicals commonly used on big corn and soybean farms are [wreaking havoc](#) on frogs, [feminizing males and shifting sex ratios](#).

But lawns, the symbols of US suburbia? Lawns cover about 31 million acres, or about a third of the territory we devote to corn, our biggest crop. A [new study](#) published in the *Proceedings of the National Academy of Sciences of the United States of America* compared frog populations in forest and suburban zones in Connecticut—and found frogs in the suburban areas had twice the ratio of females to males compared with frogs in the forested areas. Then they tested water from suburban and forest ponds for a particular class of chemicals that can disrupt the endocrine systems of frogs at very low levels. They found them in only one of six of the forested ponds, but in nearly every (11 of 13) of the suburban ones.

So what's the culprit? You might think it's [all the chemicals](#) people tend to dump on their lawns. But the study's lead author, Yale researcher Max Lambert, told me that while he and his colleagues tested the suburban water for "a couple of" pesticides, they didn't find any. He said that the main driver may be endocrine-disrupting chemicals that occur naturally in some plants, known as phyto-estrogens. These compounds turn out to be rare in most forest plants but abundant in common lawn plants like clover (often added to lawn grass mixes) and various ornamental shrubs, he said.

Read full, original post: [Your Lawn Is Giving Frogs a Sex Change](#)