

Neonicotinoid Seed Coatings in U.S. Agriculture

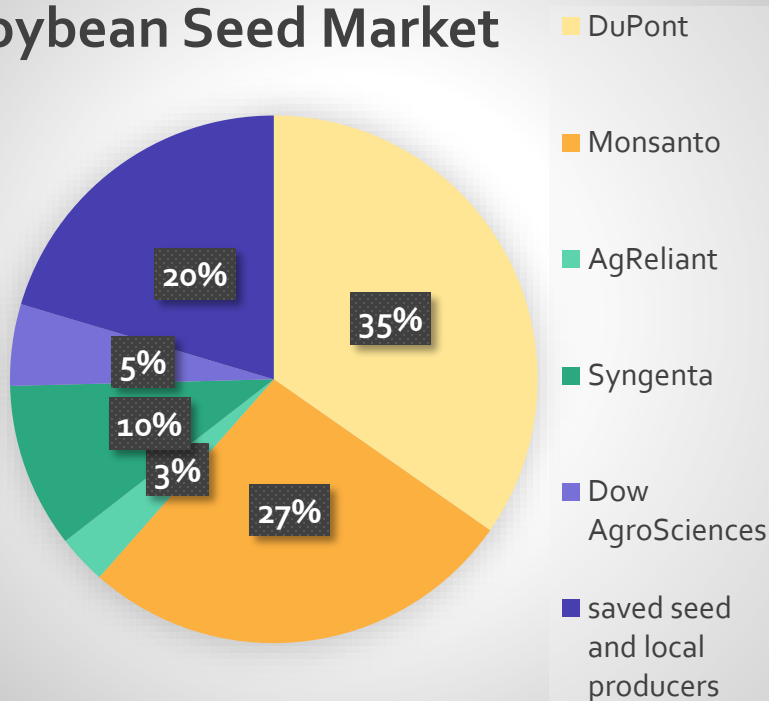
- Most commodity crop seeds in U.S. market are coated with neonicotinoids
- Minimal choice for U.S. farmers
- New research shows little to no benefit
- More options with nonGMO crops and markets



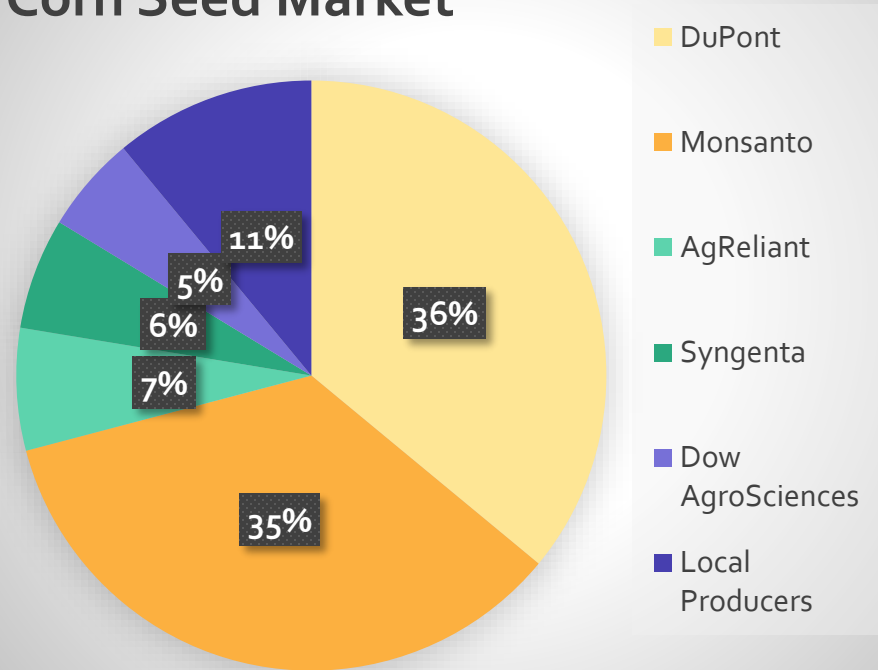
Concentration in U.S. Seed Industry

5 companies account for close to 80% of all soybean and corn seed sales in U.S.

Percent of 2013 U.S. Soybean Seed Market



Percent of 2013 U.S. Corn Seed Market

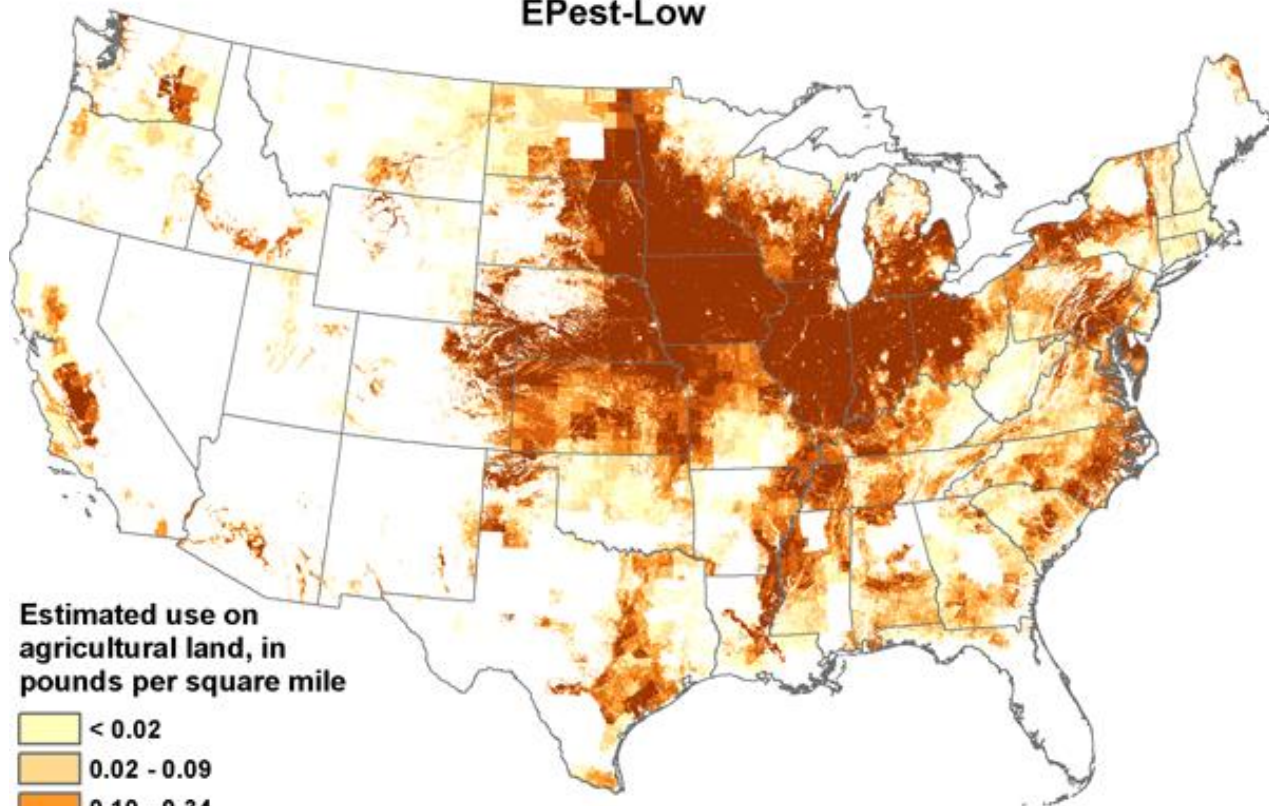


Neonic Use in the Farm Belt

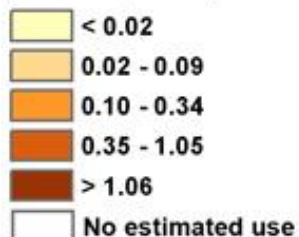
CORN

Estimated Agricultural Use for Clothianidin , 2011

EPest-Low



Estimated use on agricultural land, in pounds per square mile



From USGS Pesticide National Synthesis Project

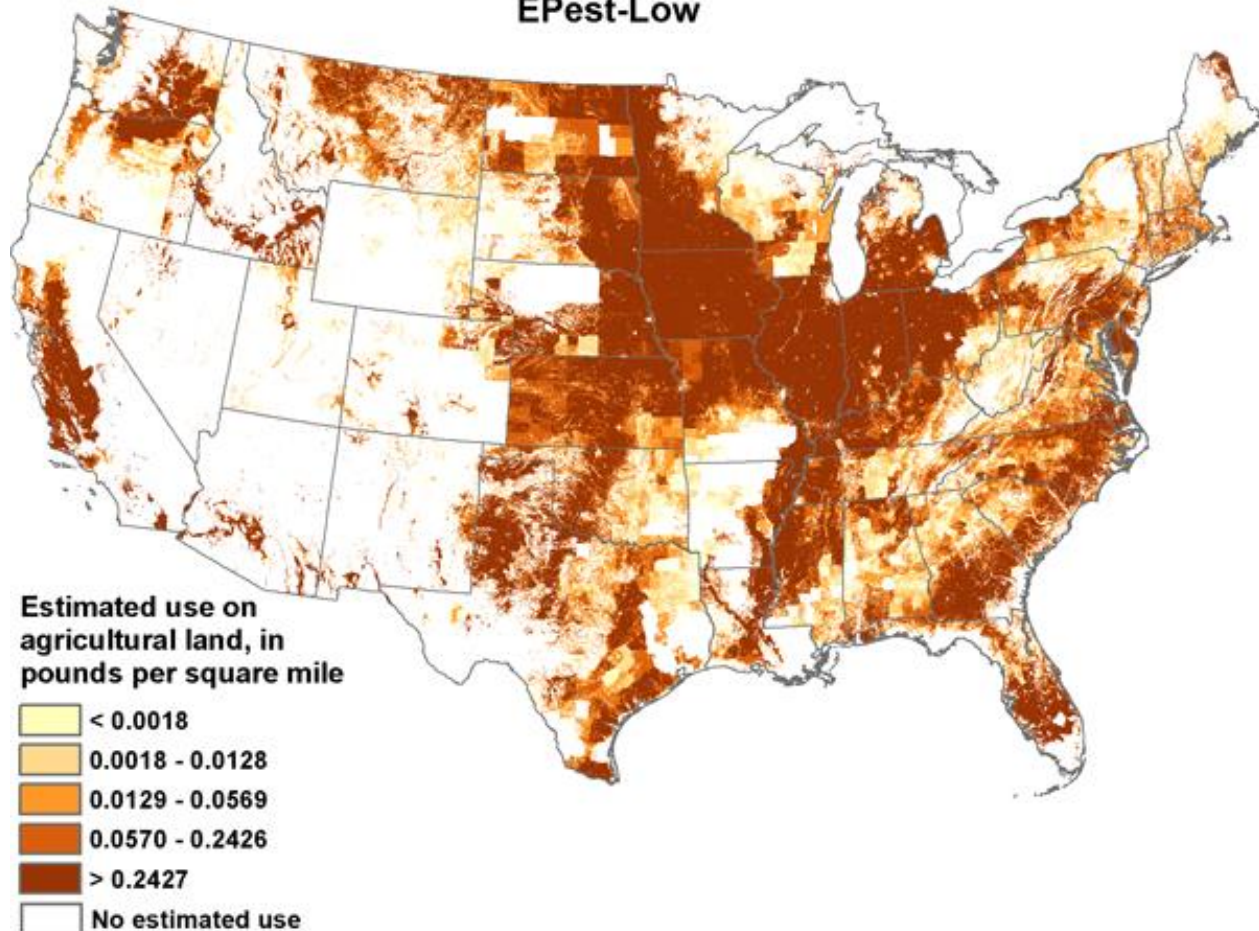
http://water.usgs.gov/nawqa/pnsp/usage/maps/com_pound_listing.php



Neonic Use in the Farm Belt

Estimated Agricultural Use for Imidacloprid , 2011
EPest-Low

SOYBEANS



From USGS Pesticide
National Synthesis Project
http://water.usgs.gov/nawqa/pnsp/usage/maps/com-pound_listing.php

Corn and Neonicotinoids

- Studies showing little or no benefit to corn farmers
 - Purdue researcher Krupke found no difference in yields between treated and untreated corn seed
 - Center for Food Safety “Heavy Costs” report has similar findings



Soybeans and Neonicotinoids

- EPA study released October 2014
“EPA concludes that these seed treatments provide little or no overall benefits to soybean production in most situations.”

<http://www2.epa.gov/pollinator-protection/benefits-neonicotinoid-seed-treatments-soybean-production>



Choices DO Exist in nonGMO seeds

- Little choice apparently available if growing GMO corn (especially from largest seed companies)
- More choice available for nonGMO options and from independent seed dealers
 - Offer non-treated as well as custom coating options

