

Who Should Regulate Pesticides in Our Food? 252nd ACS National Meeting Philadelphia, PA. August 25, 2016

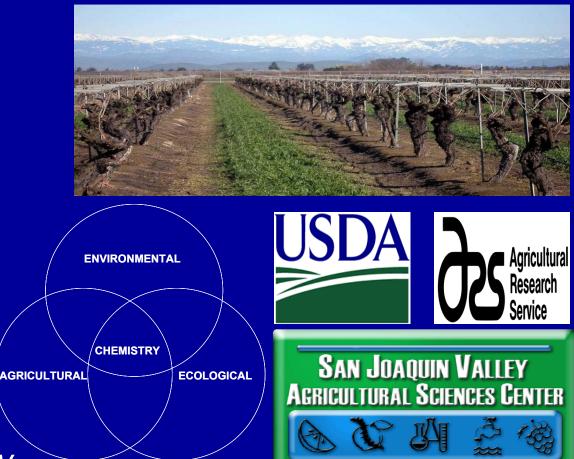
"Contemporary MRL issues for California specialty crops: things that make you go <u>"hmm?"</u>



"Postharvest chemistry research at USDA-ARS: Breaking specialty crop trade barriers" Crop Protection & Quality Unit

Spencer S. Walse

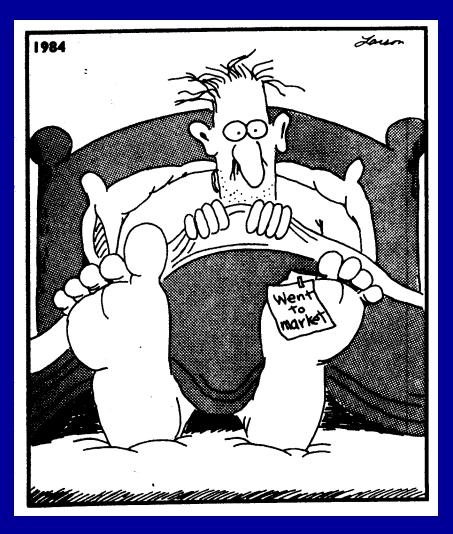




http://fresno.ars.usda.gov http://agchem.ucdavis.edu/ UCDAVIS UNIVERSITY OF CA

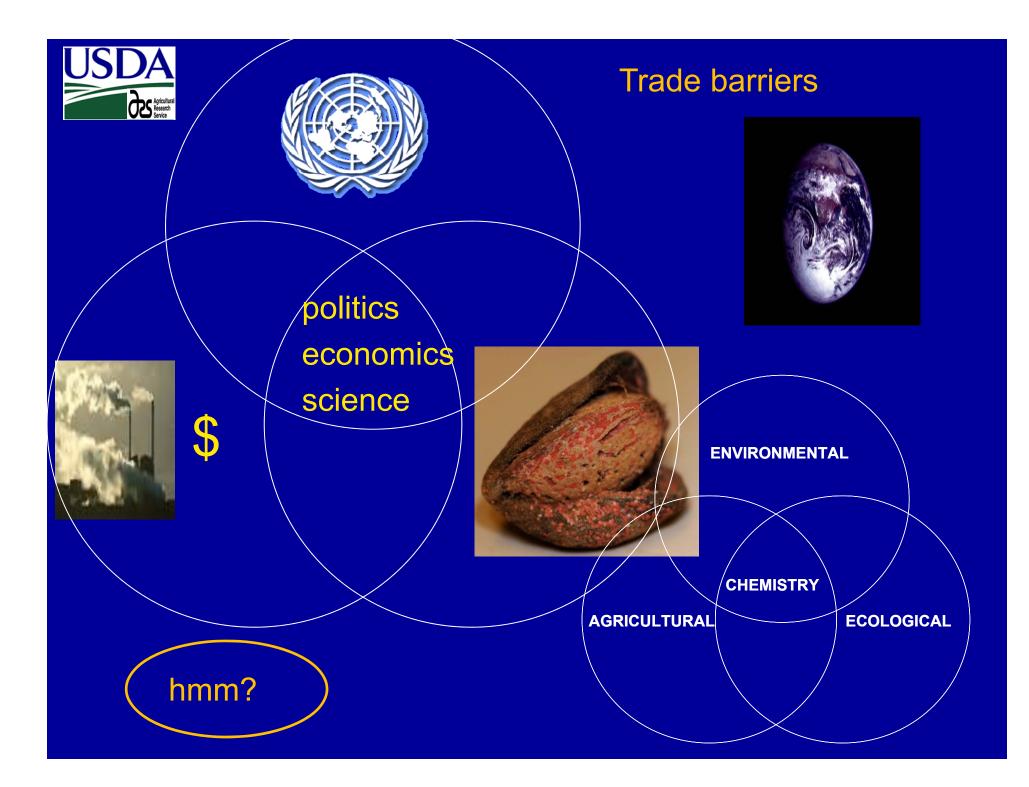


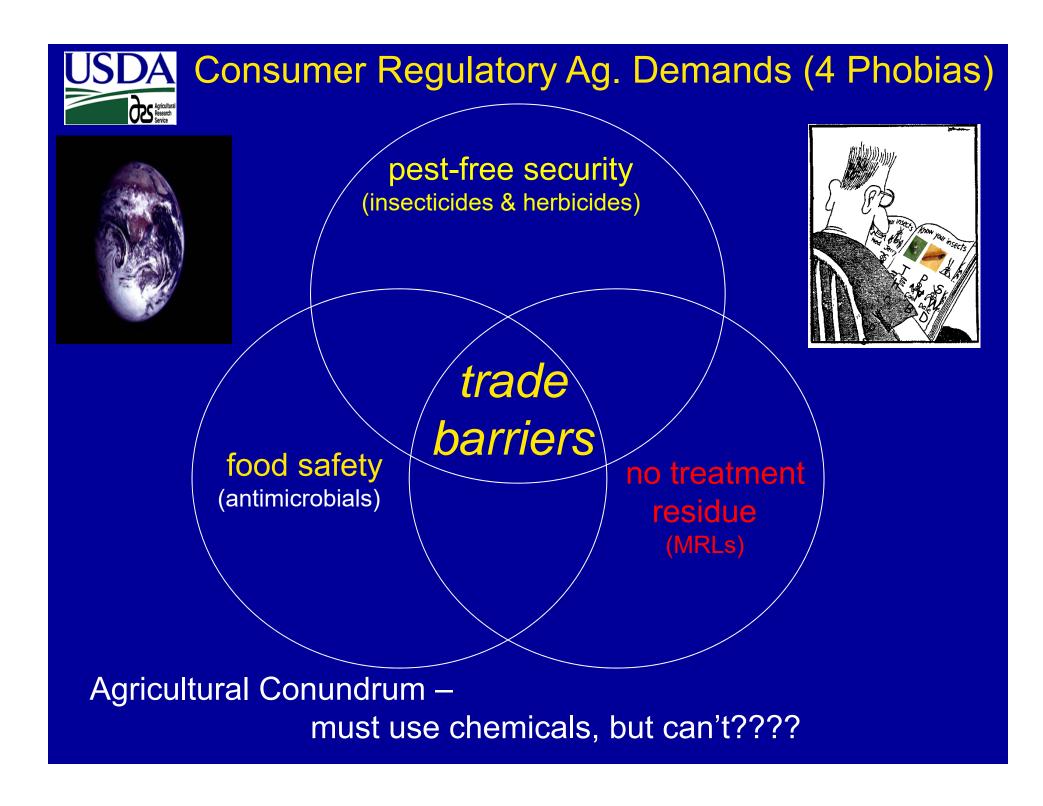
(Proactively) Address Science α <u>Consumer & Regulatory</u> Demands....





....for the Global Ag. Market

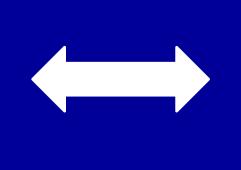






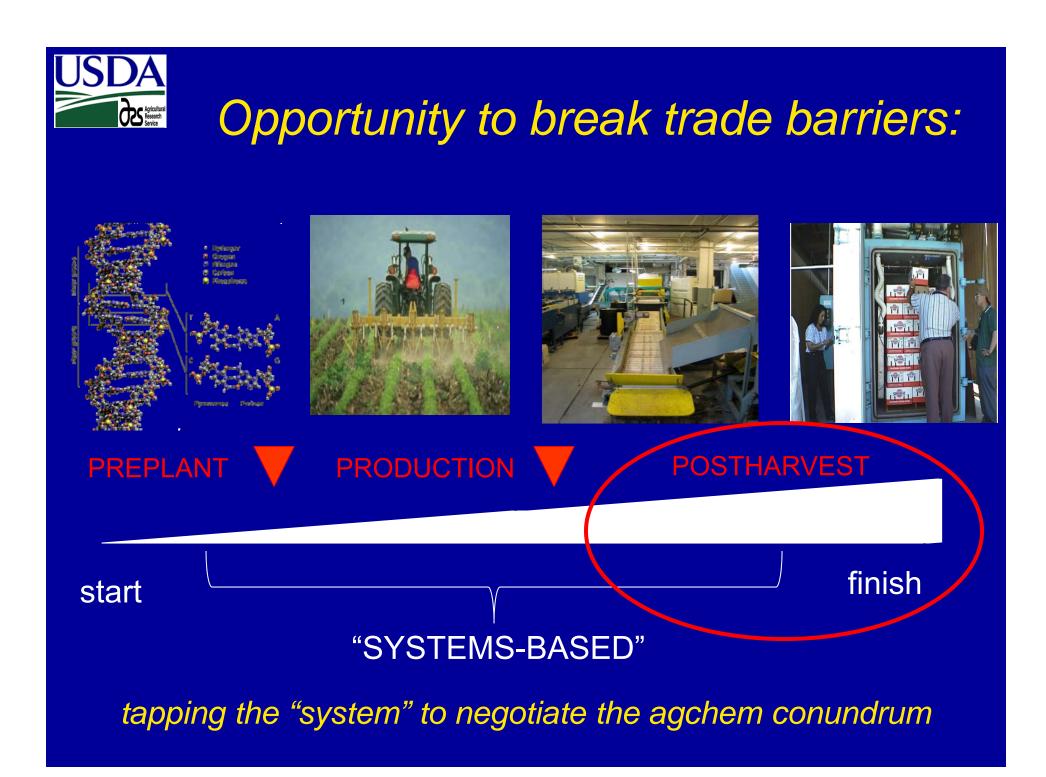
Consumer & Regulatory Ag chem <u>"Phobias"</u> ∆ w/ region http://phobialist.com/#I-







- Insectophobia insects
- Iophobia- poison
- Radiophobia radiation
- Microbiophobia microbes (germs)
- Genophobia- Fear of sex (GMO)
- Chemophobia chemicals
- Chrometophobia \$\$ money
- Georgophobia farms
- Gnosiophobia- knowledge





Is this rhetorical? Is this sarcastic?

"Six Ws are questions whose answers are considered basic in information-gathering or problem-solving"

What Pesticides Should we Regulate in Our Food?

When Should we Regulate Pesticides in Our Food?

Where Should we Regulate Pesticides in Our Food?

Why Should we Regulate Pesticides in our Food

How Should we Regulate Pesticides in Our Food?





Why Should we Regulate Pesticides in Our Food?

- consumers
- workers
- peripherals/nontargets





Human and environmental health



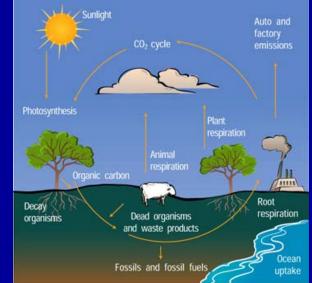




When Should we Regulate Pesticides in Our Food?

- Application (label) [–]
- Termination (label)
- storage
- distribution
- consumption
- persistence

entirety







What Pesticides Should we Regulate in Our Food?

- (FIFRA) registered domestic
- import/export food tolerance

Key incongruences:

- food additives
- allergens

All anthropogenics (some natural)







Where Should we Regulate Pesticides in Our Food?

- What's consumable
- What's not consumable
- In the environment surrounding our food
- In the environment surrounding what was our food



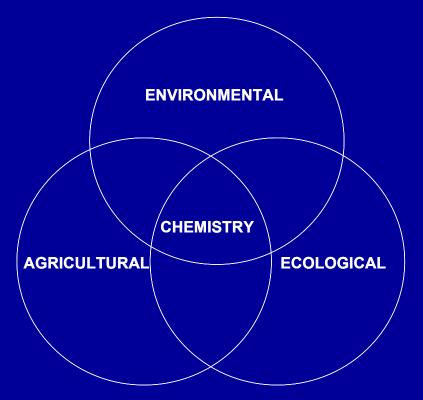
everywhere







Science-based policy





How Should we Regulate Pesticides in Our Food?

Science-based policy



anaytical chemistry



- propylene oxide & halohydrins
- morpholine
- chlorate
- phosphonate (PO3)
- flouride



consumer



- industry
- governments ****
- international committees
- scientific organizations N











2 New Phobias per 252nd ACS 2016

Metathesiophobia- Fear of changes Macrophobia- Fear of long waits

