

### **Protecting the Pollinators**

**Purchasing Strategies for Protecting Bees and Other Pollinators** 

July 15, 2015







#### Welcome

#### Who We Are

#### Responsible Purchasing Network

- International network of organizations committed to sustainable purchasing
- We provide a wide range of member services and consulting support to help organizations make every purchase matter

#### Friends of the Earth

- world's largest federation of grassroots environmental groups, with a presence in 74 countries.
- Friends of the Earth works to defend the environment and champion a more healthy and just world.

#### Who You Are

 Over 250 people representing a broad range of public, private and non-profit organizations









### **Webinar Objectives**

- Share the latest scientific findings about neonicotinoids and their impact on pollinators.
- Learn what leading organizations are doing to make their landscape and pest management efforts pollinator friendly.
- Learn how your organization can use its purchasing policies and practices to protect pollinators.
- Highlight resources available to help organizations like yours adopt pollinator-friendly purchasing policies and practices.







#### **Questions? Comments?**

- Submit questions and comments by typing them into the Questions Box in your GoToWebinar control panel on the left side of your screen.
- We will compile them through the webinar and answer as many as time allows during the Q&A portions of the webinar.











## What's Happening with Bees and Other Pollinators?

**Tiffany Finck-Haynes** 

Food Futures Campaigner Food and Technology Program







## One in Three Bites of Food Dependent On Honey Bees

\$15 billionU.S. economy

\$217 world economy

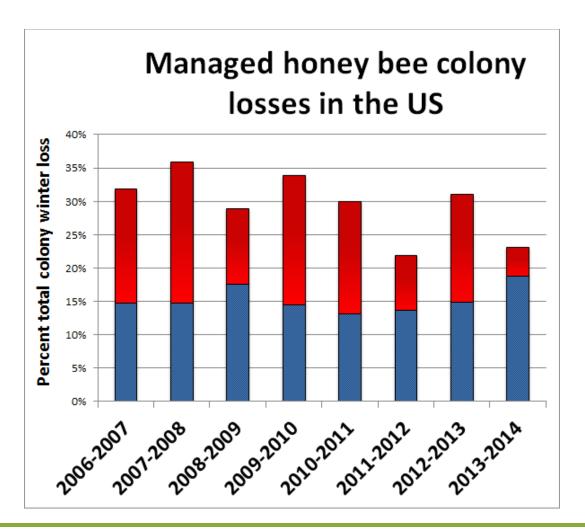








### **Bees Dying at Record Numbers**

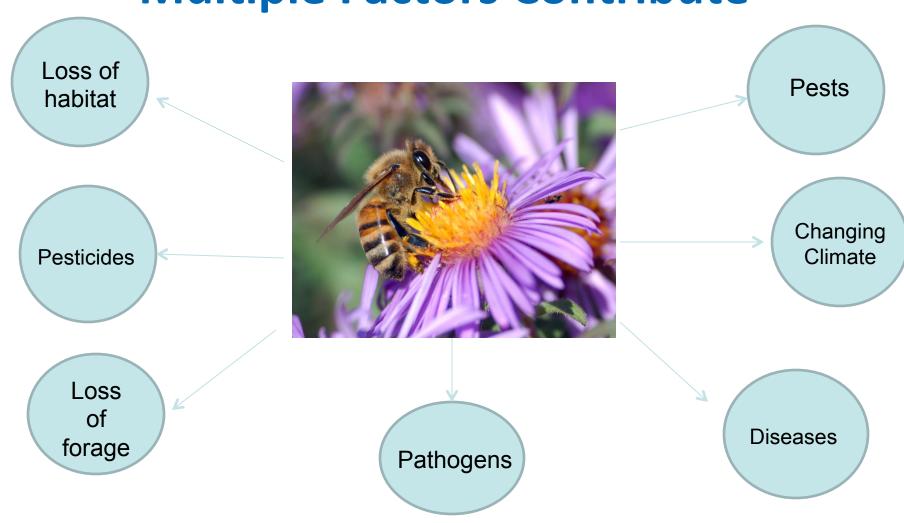








### **Multiple Factors Contribute**



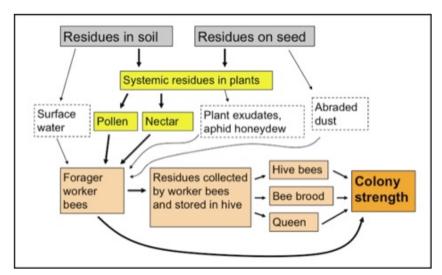




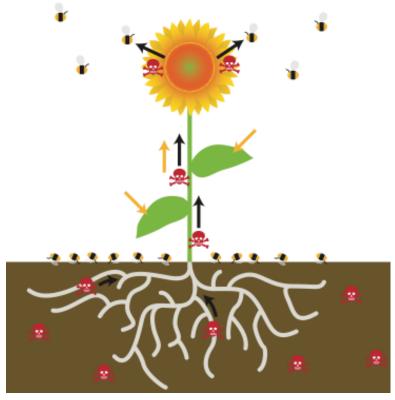
#### **Neonicotinoids**

- A. Nicotine
- **B. Neonicotinoid ACE**

C. Neonicotinoid IMI



- Movement of systemic pesticides absorbed by soil
- Movement of pesticide residues from foliar sprays

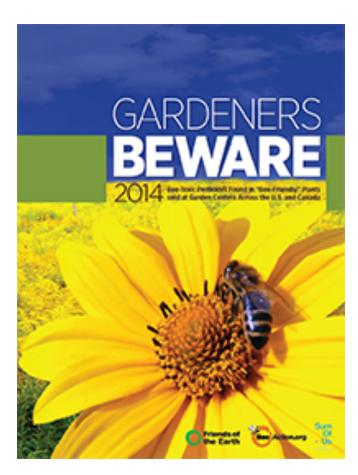








#### Where are Neonics Found?



In our backyards



140 crops+ treated with neonics





## **Neonics Don't Only Impact Bees...**

"Neonicotinoids are 5,000 times more toxic than DDT."

Dave Goulson, University of Sussex.















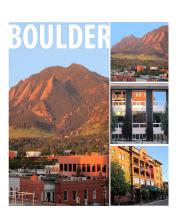
## Cities, States, Federal Agencies and Universities Moving Away From Neonics

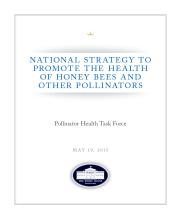
#### Shifting markets

 20+ garden retailers, wholesale nurseries and garden centers

#### Shifting policy

 20+ local, state and federal policies passed













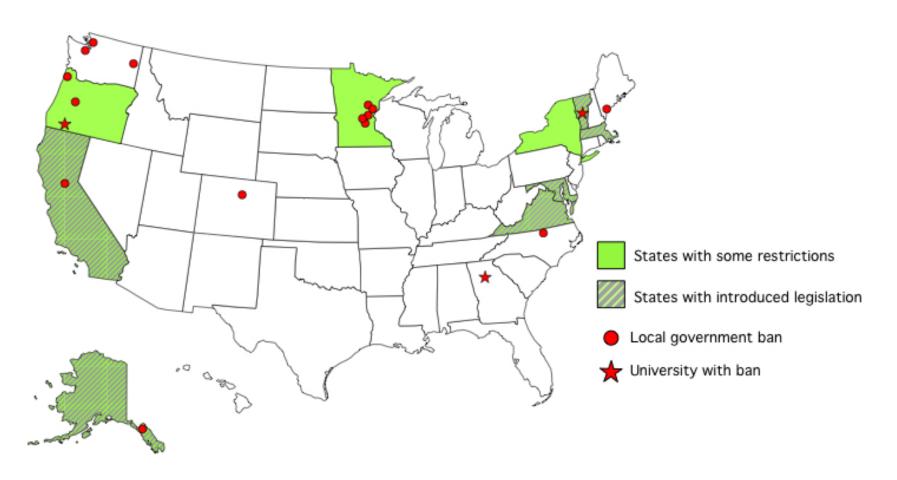








#### **Neonicotinoid Restrictions In the US**









#### **Poll Question #1:**

How aware is your organization of the need for pollinator protection?









# Purchasing Strategies to Protect Bees and Other Pollinators

#### Rebecca Calahan Klein Strategist, RPN







## Institutional Purchasers Have a Big Impact...and Can Make Big Change

- In aggregate, government agencies, educational institutions, and businesses spend billions on landscaping and pest management each year.
- These activities use significant amounts of chemicals, including neonicotinoids.
- Many options exist to make your organization's purchasing policies and practices pollinator friendly.









## **Becoming More Bee Friendly**

- Know what pesticides are used in your operations and supply chain
- Articulate a vision for pollinator protection
- Put policies in place
- Educate your employees and suppliers
- Green your contracts and your spot purchases
- Measure and report results









## **Know What Is Used In Your Operations and Supply Chain**

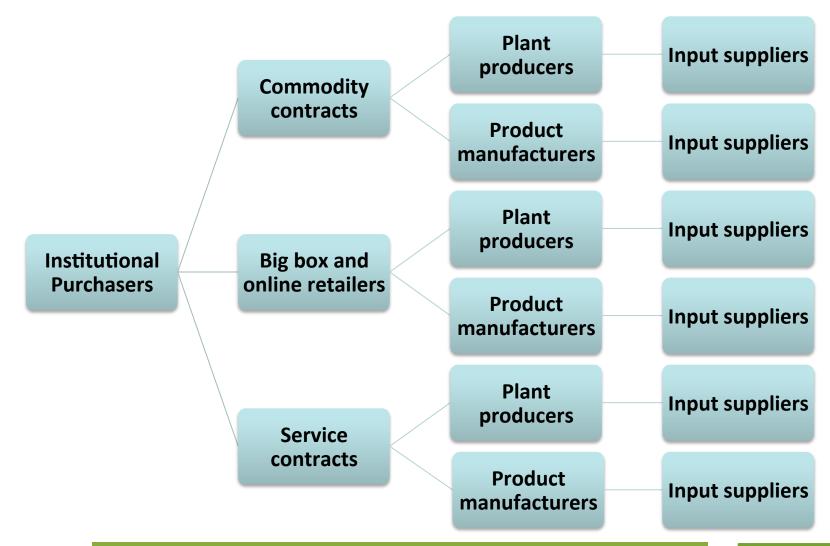








### Map Use Through Your Supply Chain







#### **Put Policies in Place to Guide Action**

- IPM policy with restricted chemicals list
- Neonicotinoid use policy
- Bee-friendly habitat creation and restoration policy









## **Make Your Purchases Pollinator Friendly**

- Encourage your employees to make P-card purchases at bee-friendly retailers
- Develop and incorporate bee-friendly specifications for landscaping and pest management contracts including
  - No neonicotinoid use
    - No treated seeds, starts or plugs
    - Neonic-free plants, shrubs and trees
    - No products containing neonics
  - Or highly restrictive use and labeling
  - Strong IPM practices in both instances
- Do ongoing training of employees and suppliers
- Monitor and report performance results









#### **Poll Question #2:**

Is your organization considering or taking action on pollinator protection?









## **Taking Action**

## Lessons Learned From Innovators in the Field











## Pollinators, Pesticides, and Precaution in San Francisco

Chris Geiger, Ph.D

City and County of San Francisco

















#### San Francisco Reduced-Risk Pesticide List

for City Properties

#### How to Use this List

The following list includes pesticide products approved for use under the SF Integrated Pest Management (IPM) Ordinance (adopted 10/96, Chapter 3, SF Environment Code).

This pesticide list should not be used in place of an IPM program. Pesticides should be the last resort, when all other tactics have failed (i.e., sanitation improvements, pest prevention, non-chemical management measures).

This list is for institutions, not for homes. Many pesticides on the list were added for specialized purposes not found in residential settings. To find out how homeowners can use few or no pesticides to manage common pest problems, visit: <a href="mailto:SFApproved.org/420-Pest-Management">SFApproved.org/420-Pest-Management</a>.

#### City Dept. staff or contractors: Apply for exemption to use a pesticide that is:

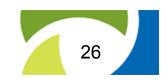
- ✓ Not in the SF Reduced-Risk Pesticide List –OR-
- In the SF Reduced-Risk Pesticide List but used differently than described in the Pesticide Limitations column.

#### The IPM Coordinator for your City Dept. must:

- Fill out this <u>Pesticide Exemption Request</u>. Allow at least 2 days for your request to be processed. SF Dept. of Environment will only grant exemptions in cases of:
  - a. Well-documented need for the pesticide and when all other alternatives have been tried or deemed impractical –OR-
  - b. For trial use of new reduced risk products
  - c. More questions? Contact Chris. Geiger@sfaov.org and call 415-355-3759.
- Justify your use of a pesticide at an annual public hearing, if you used a pesticide:
  - a. That SF Dept. of Environment approved for exemption
  - b. That is higher risk and listed as Most Limited Use in the SF Reduced-Risk Pesticide List

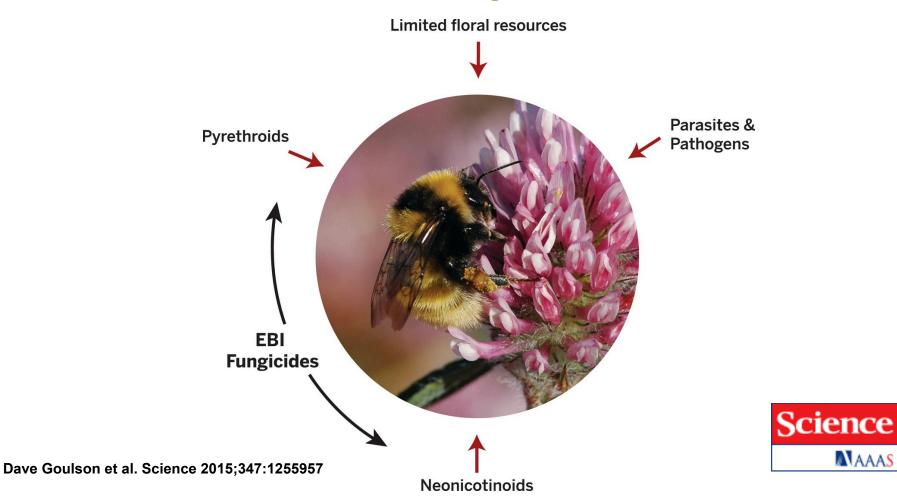






#### Multiple interacting stressors drive bee declines.

Both wild and managed bees are subject to a number of important and interacting stressors.









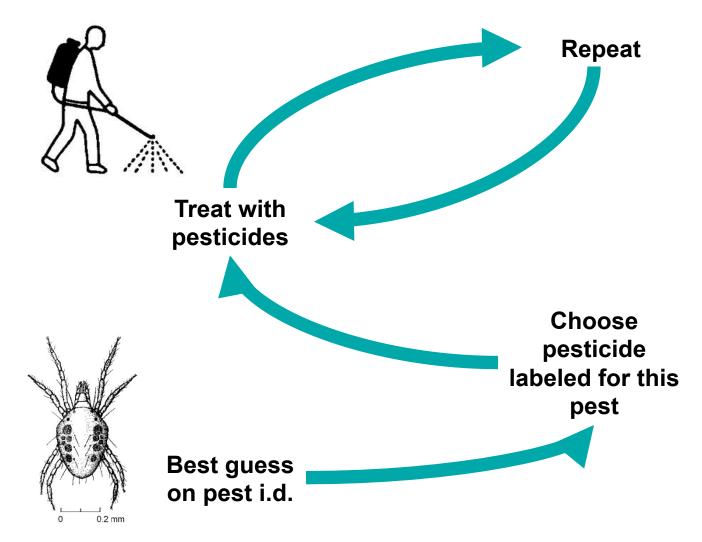
MAAAS





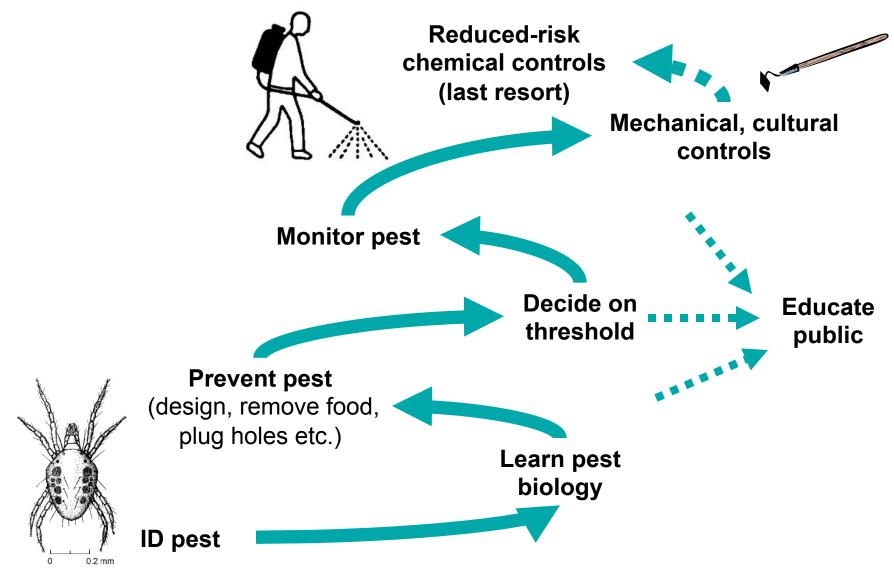














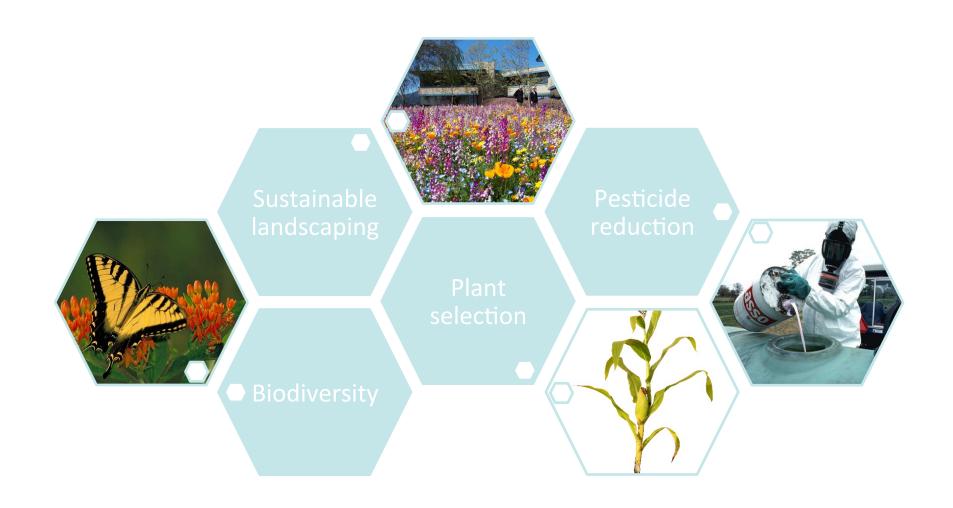




























# Protecting Pollinators Through IPM, Neonic Bans and Habitat Creation

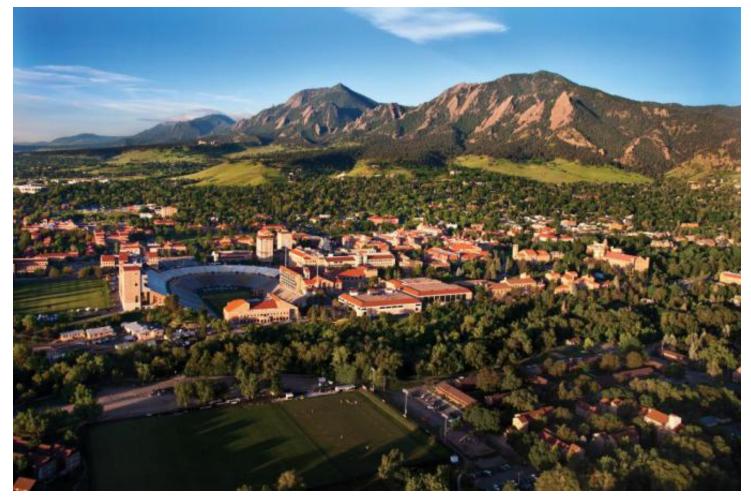
Rella Abernathy
Integrated Pest Management Program
Boulder, Colorado







## Welcome to Boulder, Colorado!

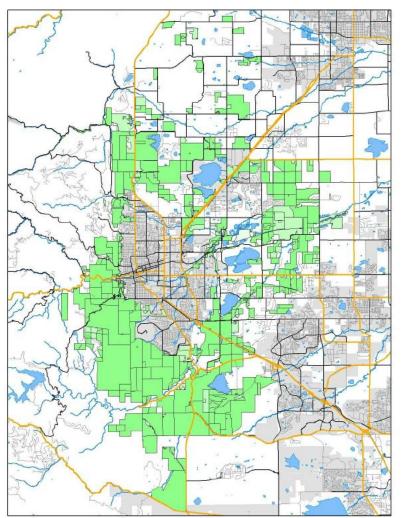


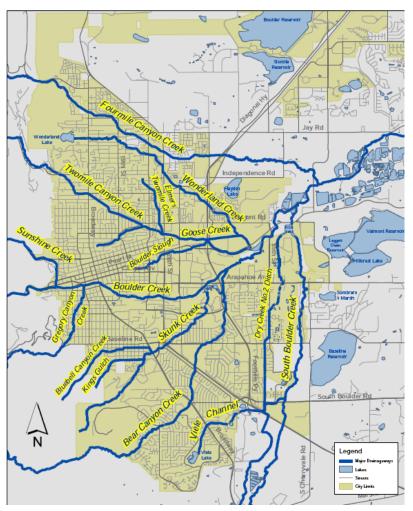






### **Putting Us on the Map**



















#### 'Neonic' Poison Found Throughout City

Creeks Division Testing After Rains Discovers Insecticide Fatal to Bees

Monday, February 9, 2015 by JEAN YAMAMURA (CONTACT)

A grave concern is growing over the use of neonicotinoids, a type of insecticide known to affect the central nervous system of invertebrates, most alarmingly of bees. In its first tests for the poison, the city's Creeks Division found a "neonic" known as imidacloprid after the rains of February 2014, according to city creek reports. In fact, the monitors found the pesticide so



consistently across their four creek sites (Arroyo Burro, Mission, Laguna, and Sycamore) that they suspected laboratory problems. Until this year. In 2015, post-storm tests again found imidaeloprid in the city's four major streams and also in spot checks of urban sidewalks and streets.





#### Daily Camera

### **BOULDER NEWS**

News - Business - Sports - Entertainment - Lifestyle - Opinion - Recreation 
HOT TOPICS: Scott Jurek Fallen hiker CU physicist honored 'Falling Bear' 2.0 Little Church in the Boulder News Story

### Boulder adopts 'bee safe' resolution

Measure formalizes city policy of not using neonicotinoid pesticides

By Erica Meltzer

Staff Writer

POSTED: 05/05/2015 09:11:59 PM MDT | UPDATED: 2 MONTHS AGO

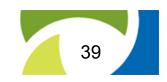
The Boulder City Council unanimously adopted a resolution Tuesday night that states the city will not use neonicotinoid pesticides, except when necessary to save old and valuable trees.

#### RELATED STORIES

 Boulder council OKs affordable housing fee on commercial development





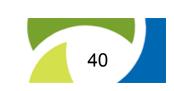


## **Keys to Success**

- Change product mindset
- Use common sense/experiment to see what works
- ☐ Train staff hire highly trained staff
- Reward innovation and risk-taking
- Work with other organizations, progressive faculty members to share info/ideas
- ☐ Educate the public/customers
- Celebrate success























# **Engaging Stakeholders** in Pollinator Protection

Ciannat Howett, Emory University







## **Campus Pollinator Protection Campaign**

- Emory University's Commitment to ban neonicotinoids and treated plants
  - Worked with Grounds, Procurement, Planning Design & Construction, and EHSO; Georgia Organics, FOE, Turner Foundation, and Emory's Turner Environmental Law Center
  - Toxics Release Inventory (TRI); Grounds lists
  - Pesticide Research Institute-- safe substitutions; piloted on campus
  - IPM; vendor contracts; construction standards; landscape design plans
- Student, staff & community outreach: Sustainable Food Fair; Internal publications & social media; AJC op-ed; "tool kit"
- Role of University as resource: Emory Law students researched "Gardeners' Beware" Report; faculty experts for local legislative and media work; outreach to City





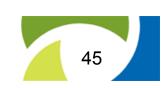


## **Emory's Pollinator Protection Commitment**

- Emory University's Pledge (August 2014)
  - Eliminate neonicotinoid use on campus grounds
  - Purchase plants for campus landscaping that have not been pre-treated with neonicotinoids, to the extent feasible
  - Specify in contracts with vendors and campus construction standards not to use neonicotinoid insecticides or plants pre-treated with neonicotinoids
  - Ensure substitutes for neonicotinoid pesticides are safe for pollinators
  - Plant pollinator-friendly habitats on campus
  - Conduct campus outreach and education











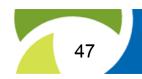














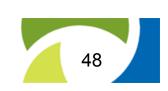
# "Bee"ing a More Responsible Retailer: BJ's Pollinator Protection Program

#### **Scott Williams**

AVP of Quality Assurance and Environmental Stewardship







## **Gearing up For a Commitment**

We started this process almost a full year before our discussion with Friends of the Earth

#### **Asking the Right Questions**

- What areas are impacted?
  - Obvious: Floral, Chemical, Lawn & Garden
  - Not Obvious: Pet
- Understand the suppliers
  - Is it an input issue?
  - A time issue?
  - A market issue?
- Who are the "Big Levers"
  - If you find the key suppliers they can get the rest of the players to move.







### **Explaining the Commitment to Vendors**

#### **BJ's Pollinator Protector Program**

#### **Our Commitment:**

- 1. We require all vendors to disclose the use of any neonicotinoids in nursery or plant-able products (e.g., blueberry bushes, tulip bulbs).
- We require any vendors using neonicotinoids in nursery or bedding plants to submit plan/ process used to protect bees when using neonicotinoids (e.g., timing, segregation, etc.)

#### What we need from vendors:

- Any vendor using neonicotinoids should label them "Neonicotinoids applied. Caution around Pollinators"
- 2. We need to know any vendor that is using neonicotinoids to let us know so we can keep a log.

#### **Other Notes**

- We are not saying you cannot use neonicotinoids; however, we would like to get there.
   We will rely on vendors to regulate, with random monitoring. If we can't rely on the vendors, we will go to an audit program.
- We will try to incorporate this into other Responsible Sourcing programs so the vendors get credit for doing it

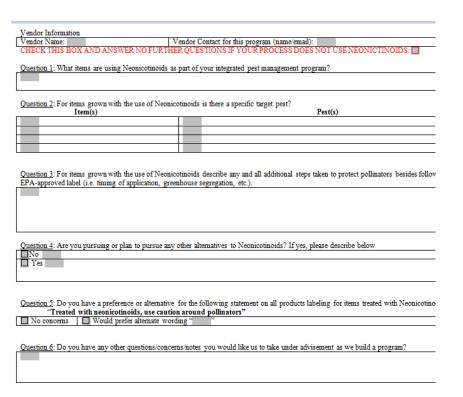






## **Managing the Commitment**

#### **Vendor Questionnaire**



- All vendors had to respond.
- Found out what the obstacles were for our suppliers.
- Learned which obstacles were actual impediments to business, which were just hard to do
- Asked for Alternatives & A/B Testing





## **Spreading the Commitment**





A new study by Friends of the Earth U.S. and Pesticide Research Institute found 36 out of 71 "bee friendly" garden plants – 51% – contained neonic pesticides that are harmful to bees, with no warning to gardeners. Find out how BJ's is committed to phasing out the use of neonicotinoids in garden plants and removing neonicotinoid pesticide products from our shelves by visiting www.beeaction.org

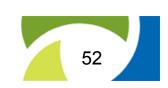


Friends of the Earth www.foe.org

Friends of the Earth is flighting to defend the environment and create a more healthy and just world. We're progressive environmental advocates who pull no punches and speak sometimes uncomfortable truths to power.









# Research Institute Tools for Protecting Pollinators

Susan Kegley, Ph.D.
CEO, Pesticide Research Institute







## **One Helpful Approach**

### Plant a bee-friendly space













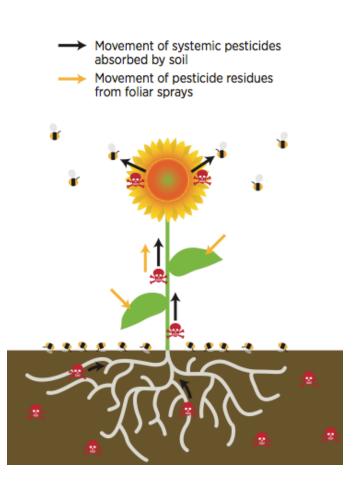






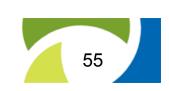
## **Systemic Insecticides in Nursery Plants**





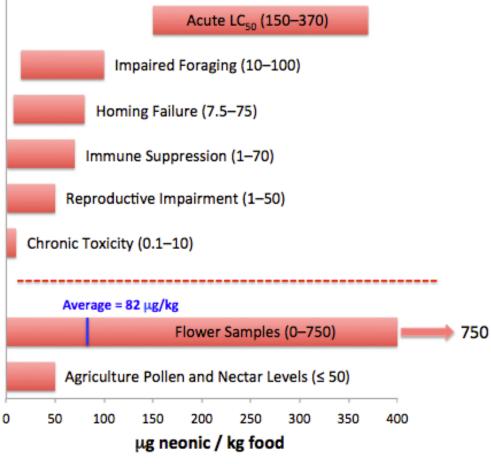






# Concentrations of Neonicotinoids Associated with Effects on Bees











## **Assessing Hazards: The Challenge**

- Difficult to compare pesticide product hazards
- Limited staff time and resources
- Frequent product changes
- Product efficacy
- Transparency important for communication with the public









# The Solution: PRI Pesticide Product Evaluator®

 Bee-toxic icon: Helps avoid regrettable substitutions



- CA Healthy Schools Exempt
- Low-exposure products (baits, gels)
- Easy-to-understand Hazard Tier ranking system



Low Hazard Moderate Hazard High Hazard

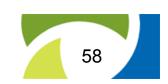


• Annual Subcription: \$99; Monthly: \$10

#### Pesticideresearch.com/site/evaluator





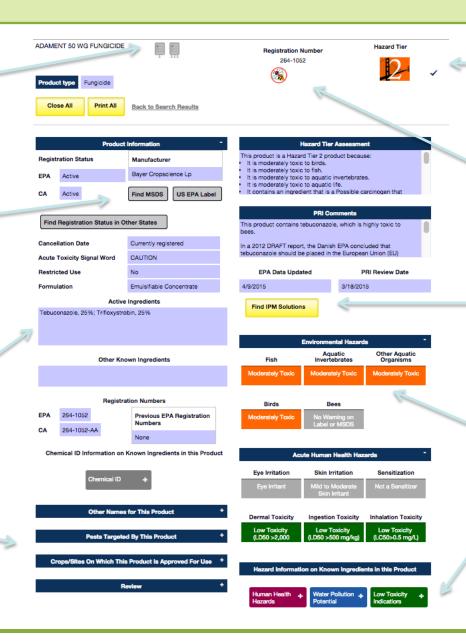


Create a list of products to share or compare

Quick access to MSDS and product label

Product ingredients

Read product reviews



Currently registered

Bee-toxic indicator

Non-chemical solutions

Color coded for clarity





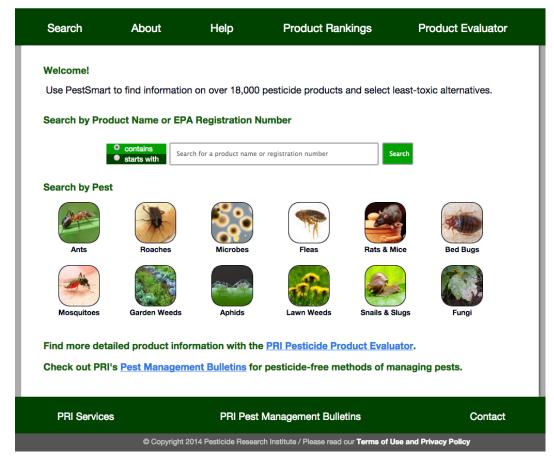




- Contains a subset of information in the Product Evaluator
- Aimed at consumers
- Free



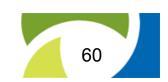
### Pesticide Research Institute PestSmart<sup>™</sup> Web



### Pesticideresearch.com/site/pestsmart



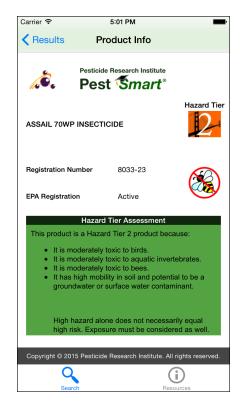




## iOS Mobile App







itunes.apple.com/us/app/pest-smart/id976412743?mt=8







# PRI's Bee-Friendly Gardening Resources garden4bees.com







#### **Poll Question #3:**

What resources would be most helpful in supporting your organization's pollinator protection efforts?







# RPN/FOE Action Guide For Institutional Buyers – Coming Soon!



#### Action Guide Contents

- Latest science on pollinators and role neonics is playing in pollinator decline
- Examples of innovative actions being taken in different sectors
- Pollinator-friendly purchasing strategies
- Resources for purchasers and their supply partners







## **Upcoming RPN Webinars**

- Flame Retardant-free Furniture
- Model Green Office Supplies Contract
- Purchasing Renewable Electricity
- Sustainable Procurement Policies: Best Practices







## Thank you!







