REPORT TO THE OREGON LEGISLATIVE ASSEMBLY

Task Force on Pollinator Health

November 2014

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I. EXECUTIVE SUMMARY

The Task Force on Pollinator Health was established during the 2014 Legislative Session by the enactment of House Bill 4139. This document is the Task Force report.

In June 2013, at least 25,000 bees were found dead in a Target parking lot in Wilsonville, Oregon. The Oregon Department of Agriculture (ODA) concluded that the bee deaths were directly related to the use of the pesticide dinotefuran, which had been applied to nearby Linden trees to control aphids. ODA will be adopting permanent rules restricting the use of certain pesticide products containing dinotefuran and imidacloprid on Linden trees; and began requiring a label statement prohibiting the use of dinotefuran and imidacloprid on linden trees, regardless of application method, as a condition of annual registration in 2014. Beginning January 1, 2014, application of these products on linden, basswood, or Tilia tree species is prohibited.

During the 2014 session, House Bill 4139 was introduced partly in response to a number of bee kills associated with the use of these products on Linden trees. As enacted, House Bill 4139 established the Task Force on Pollinator Health to examine issues relevant to pollinator health and report to an interim legislative committee related to agriculture no later than October 1, 2014. The measure also directs Oregon State University (OSU), in consultation with ODA, to develop educational materials on best practices to avoid adverse effects from pesticides on pollinators.

The Task Force held seven meetings from June through October 2014. In addition to the sharing of information gathered by Task Force members, testimony was received from individuals with expertise in a variety of areas related to pollinator health. Both testimony and Task Force discussions make it clear that pollinator health is a complex and multi-factorial issue; these issues include parasites, pathogens and diseases, agricultural intensification, malnutrition, habitat, pesticides and genetics. The Task Force developed many recommended actions to improve the health of both native and managed pollinators that are detailed in this report. Four priority recommended actions emerged from Task Force discussions (numbers in parentheses refer to specific actions that support a recommendation):

- Oregon should develop a strong, effective outreach and education strategy on pollinator health, including best management practices. (See 1.1 1.3; 4.1, 4.3(c), 4.4(a), 4.4(b), 6.1(b) and 6.1(c))
- **II.** Oregon should fully fund a **state-of-the-art bee health diagnostic facility** at Oregon State University. (See 5.1(a))
- III. An integrated pollinator health research plan should be developed and funded to improve understanding of the many issues affecting pollinator health. (See 5.1(b)–(d) and (f), 5.2(a)-(c), 6.1(a), and 6.1(d))
- **IV.** A sustainable **revenue** stream to **fund** the proposed outreach, education and research programs is needed. (See 6.1(a)-(d))

II. TASK FORCE ON POLLINATOR HEALTH

PURPOSE

House Bill 4139 (2014) directs the Task Force on Pollinator Health (Task Force) to examine issues relevant to pollinator health, including but not limited to:

- 1. Proposed and enacted pesticide regulations from other states and countries that are more protective of pollinator health than the pesticide regulations of the United States Environmental Protection Agency.
- 2. Public education and outreach plans regarding pollinator health that have been successful in other states.
- 3. The effectiveness of applicator licensing, other legal requirements, and incentives in matters affecting pollinator health.
- 4. Possible funding streams for efforts to promote or protect pollinator health.
- 5. How other states gather data on populations of bees or other pollinating insects.
- 6. Existing best management practices for applying neonicotinoids to avoid harming pollinating insects.

The bill directs the Task Force to submit a report, which may include recommendations for legislation, to an interim committee of the Legislative Assembly related to agriculture no later than October 1, 2014.

TASK FORCE MEMBERS

The 10-member Task Force includes two legislators who serve as non-voting members and eight members appointed by the Governor who represent a variety of interests involved in pollinator health issues. A Task Force membership roster appears below.

| Name | Affiliation | Interests Represented |
|-----------------------------|---------------------------------------|--|
| Ramesh Sagili, Chair | Department of Horticulture, Oregon | University faculty specializing in science |
| | State University | of pollinator health |
| Senator Chuck Thomsen | State Senator Appointed by the Senate | Oregon Legislature |
| | President | |
| Representative Jeff Reardon | State Representative Appointed by the | Oregon Legislature |
| | Speaker of the House | |
| Aimee Code | Xerces Society for Invertebrate | Advocacy group dedicated to protection |
| | Conservation | of pollinators and invertebrates |
| Scott Dahlman | Oregonians for Food and Shelter | Advocacy group for farmers |
| Betsy Earls | Associated Oregon Industries | Advocacy group for retailers |
| George Hansen | Beekeeper | Public |
| Rich Little | Master Gardner | Public |
| Christy Splitt | Oregon League of Conservation Voters | Advocacy group dedicated to |
| Doug Moore (eff. 9/29/14) | | environmental protection |
| Jeff Stone | Oregon Association of Nurseries | Advocacy group for nurseries and |
| | | greenhouse producers |

TASK FORCE MEETINGS

The Task Force held a total of seven meetings at the State Capitol; its first meeting was on June 30, 2014. The table below shows meeting dates and agenda topics; a complete set of meeting agendas and materials can be found on the Task Force website:

https://olis.leg.state.or.us/liz/2013I1/Committees/TFPH/Overview.

| Meeting | Topics Addressed |
|--------------------|---|
| June 30, 2014 | Task Force Organization and Election of Chair |
| | Overview of HB 4139 |
| | State of Pollinators in Oregon |
| | Pesticide Certification and Licensing in Oregon |
| | Task Force Objectives, Timeline and Work Plan |
| July 31, 2014 | Task Force Work Plan |
| | Outreach and Education Programs |
| August 6, 2014 | Other States' and Countries' Pesticide Labeling Laws and Regulations to Protect |
| | Pollinators |
| | Pesticide Applicator Training, Certification and Licensing |
| August 18, 2014 | Overview of Other States' and Countries' Pesticide Laws and Regulations |
| | Presidential Memorandum on Pollinator Health |
| | Pollinator Research Needs |
| September 16, 2014 | Best Management Practices for Neonicotinoids |
| | Funding Options to Promote and Protect Pollinator Health |
| | Review and Discuss Draft Recommendations |
| September 29, 2014 | Consideration of Task Force Report |
| October 27, 2014 | Consideration of Task Force Report/Public Comment Opportunity |

III. TASK FORCE RECOMMENDATIONS

The Task Force developed a set of recommendations in each of the following areas: outreach and education, pesticide regulation, licensing and training of pesticide applicators, best management practices, research needs, and funding. For each area, policy objectives and identified barriers to achieving those objectives are identified. The recommendations are listed below in three categories based on the level of agreement reached by the Task Force on each recommendation. *"Consensus"* recommendations received strong support from all Task Force members. *"General Agreement"* recommendations received support from at least five members and no significant opposition. *"Split Opinion"* recommendations were supported at some level by most members and opposed by at least two members. A summary table of these recommendations appears in Appendix B.

TASK 1: OUTREACH AND EDUCATION

POLICY OBJECTIVES

• Improve Understanding of Pollinator Health Issues

Pollinator health information should be easily accessible to both the general public and pesticide applicators to better understand how to improve pollinator health, including enhancement of habitat and prevention of pesticide exposures. The goal is to reach a wider audience with the information that is already available and any new information that becomes available.

Identified Barriers to Progress:

- ~ Oregon has not identified an overall strategy for addressing pollinator health issues.
- There is a lack of known, effective communication pathways to reach household pesticide users.
- ~ Federal restrictions on adding information to pesticide product labels.
- A lack of data on who uses pesticides, the pesticides used and the volume of pesticides used in order to effectively reach target audiences with appropriate information.
- ~ Funding

• Increase Reporting of Bee Incidents

Currently, beekeepers may be reluctant to report bee die-offs due to concerns over slow response from regulatory agencies, potential penalties for related activities (e.g., off-label use of products by hive owners to address hive viability issue for which reliable products are not available), and landowner reluctance to allow government agency staff onto property.

Identified Barriers to Progress:

- ~ Disincentives to reporting.
- ~ Lack of understanding about how to report incidents.

TASK FORCE RECOMMENDATIONS

Consensus Recommendations

- 1.1 <u>An Oregon Pollinator Health Outreach and Education Plan should be developed.</u>
 - ODA, in collaboration with OSU and all relevant state agencies, should develop an Oregon Pollinator Health Outreach and Education Plan. The plan should:
 - Ensure educational information is appropriate and effective for a broad audience, including licensed pesticide applicators, general pesticide users, and consumers.

- Rely on a variety of media sources and existing organizations to disseminate the materials, including state agencies, associations, environmental organizations, and others in related fields.
- ODA should consider contracting for services from a private firm specializing in communication strategies to brand and market the Pollinator Health Outreach and Education Plan.
- ODA should examine existing, effective outreach programs, including the state's noxious weed program, during plan development.
- 1.2 <u>The Bee Incident Reporting System should be clarified.</u> The Oregon Department of Agriculture (ODA) should develop a document clearly explaining how bee-related incidents may be reported. The document should be easy to find on the ODA web page and also be widely shared with the public and industry. The posting of this information on other websites should be encouraged.
- 1.3 <u>Funding should be provided to more widely distribute, regularly update, and create</u> <u>mobile applications of the OSU publication "How to Reduce Bee Poisonings from</u> <u>Pesticides."</u>

TASK 2: PESTICIDE REGULATION

POLICY OBJECTIVES

• Improve Pesticide Use Labels

Pesticide labels provide directions to users and legal requirements for use of the product, but are often complicated and difficult to read. At times, the addition of information on pollinator health has led to conflicting directions on a label.

Identified Barriers to Progress:

- New label language is currently developed by the US Environmental Protection Agency.
 Oregon may require additional information on products but this has been done infrequently and requires a rulemaking process.
- Label language frequently does not adequately convey risk (i.e., risk = toxicity + exposure).
- Prevent Bee Die-Off Incidents Resulting From Pesticide Applications

There have been seven reported bee die-off incidents in Oregon since June 2013 that resulted from the use of neonicotinoids on Linden trees.

Identified Barriers to Progress:

~ Lack of knowledge about the effects of systemic pesticides on certain plant species.

- Pesticide products without the new label restrictions required by ODA in 2013 were still available for purchase in 2014.
- Pesticide applicators do not always read a pesticide product label to see if there have been changes since they last applied a product.
- Native bees cannot be removed from a treatment site. There are also significant hurdles to removing managed bees.

TASK FORCE RECOMMENDATIONS: -

Consensus Recommendations

- 2.1 <u>Pesticide Labels</u>
 - (a) ODA should continue its work with the US Environmental Protection Agency (EPA) to improve pesticide use labels and should advocate for prominent, easy-tounderstand label information on the use of a pesticide product to protect pollinator health.
 - (b) ODA should continue to encourage EPA to develop a system to convey risk to pollinators on pesticide labels.
 - (c) ODA should help create guidance materials for applicators to better explain label requirements.

2.2 <u>Specific Pesticide Use Restrictions</u>

- (a) The 2014 ODA decision requiring that the use of existing stocks of imidacloprid and dinotefuran products with old labels must follow the temporary rule requirements regarding Linden trees should be continued.
- (b) ODA should continue to investigate alternatives to the use of certain neonicotinoids (clothianidin and thiamethoxam) on Linden trees.

2.3 <u>Pesticide Labels</u>

EPA labeling should include more symbols to alleviate language barriers.

2.4 Specific Pesticide Use Restrictions

- (a) Under ORS 634.006 (21) "'Restricted-use pesticide'" means any pesticide or device which the department has found and determined to be so injurious or detrimental to persons, pollinating insects, bees, animals, crops, wildlife, land or environment, other than the pests it is intended to prevent, destroy, control or mitigate, that additional restrictions are required." In accordance with this statute, ODA should create and regularly update a list of restricted-use pesticides that meet this definition and make this list readily available on its website.
- (b) The Task Force on Pollinator Health should write a letter to EPA requesting that the agency adopt application rates for neonicotinoids for backyard use that are equivalent to agricultural use rates.
- (c) The State Integrated Pest Management (IPM) Task Force should review the use of neonicotinoids on state lands.

- 2.5 <u>Pesticide Use Inspections/Penalties</u>
 - (a) ODA should review and revise the schedule of penalties for improper or unlicensed pesticide use.
 - (b) The Oregon Legislative Assembly should review and revise the maximum penalties for pesticide use violations set in statute.

General Agreement Recommendations

2.6 <u>Pesticide Use Inspections/Penalties</u>

ODA should develop a more robust, pro-active inspection program to encourage the proper application of pesticides.

Split Opinion Recommendations

2.7 <u>Pesticide Labels</u>

EPA should conduct all field tests of pesticides as they are formulated for sales (complete with additives) to determine the true level of toxicity to target and non-target organisms.

2.8 Specific Pesticide Use Restrictions

- (a) ODA should expand the ban on the use of certain neonicotinoids on Linden trees to include two additional neonicotinoids (clothianidin and thiamethoxam).
- (b) ODA's current ban on the use of dinotefuran and imidacloprid on Linden trees should be extended to application on other key, non-crop pollinator host and forage plants.
- (c) Neonicotinoid use on state lands should be prohibited.

2.9 <u>Violations: Inspections/Penalties/Enforcement</u>

ODA should conduct random hive inspections for the purpose of pest and pathogen detection. If a pest/pathogen of concern is detected, further inspections of nearby hives and other hives of those owners should be conducted.

2.10 Consumer Information on Pesticides

- (a) To expand upon and standardize the commitment of many retailers, including Home Depot, Oregon should enact a law requiring labeling of plants for sale that have been treated with neonicotinoids.
- (b) Similar to Minnesota's new law, Oregon should enact a law to prohibit the labeling of plants and plant materials as "pollinator friendly" if they have been treated with a highly toxic, long-lived systemic insecticide.

TASK 3: LICENSING AND TRAINING OF PESTICIDE APPLICATORS

POLICY OBJECTIVES -

• Enhance Applicator Training on Pollinator Health

The current applicator certification and re-certification system does not require that applicants earn credits in pollinator health courses. Many people who regularly apply neonicotinoid pesticides as part of their job are not licensed applicators.

Identified Barriers to Progress:

- ~ Difficulty identifying coursework in pollinator health.
- ~ General-use pesticides, including almost all neonicotinoid products, can be used by:
 - Nursery employees and farm employees without obtaining a pesticide applicator's license since the application occurs at their place of employment, and
 - Most landscapers without obtaining a pesticide applicator's license.

• Improve Knowledge of Retail Sales Staff Selling General-Use Pesticides

Retail sales staff are the primary point of contact for homeowners purchasing pesticides but may not have training in pesticide use.

Identified Barriers to Progress:

- High staff turn-over at retail establishment can make maintaining a trained sales force challenging.
- Improve Knowledge of Homeowners Applying General-Use Pesticides

Homeowners applying pesticide products typically have no training in pesticide use.

Identified Barriers to Progress:

- ~ Pesticide labels can be difficult to understand.
- ~ Developing an effective public education program that reaches homeowners is challenging.

TASK FORCE RECOMMENDATIONS-

Consensus Recommendations

- 3.1 Applicator Training
 - (a) ODA should amend OAR 603-057-0135 to include a "Pollinator Protection" training module as a core credit requirement for a pesticide applicator license.

- (b) ODA should establish an online training resource that is coded by topic so applicators can search for classes on specific topics, including pollinator health.
- (c) The Integrated Pest Management (IPM) training required for applicators covering what IPM is and how it is used should be increased.

General Agreement Recommendations

3.2 Applicator Training

ODA should consider beta test training programs, including but not limited to the North American Pesticide Program and collaborate on training with other entities such as BeeInformed Project (through AmericanHort) and the Honeybee Health Coalition (Clinton Global Initiative).

3.3 <u>Pesticide Use Reporting</u> The Oregon Pesticide Use Reporting System (ORS 634.042) should be reactivated and funded.

Split Opinion Recommendations

- 3.4 Licensing
 - (a) Oregon should require an applicator license for anyone who applies general-use pesticides on a regular basis as part of their employment.
 - (b) Oregon should require a license for crop advisors and others who give advice on purchase and use of pesticides.
 - (c) The sale of pesticides in quantities for commercial or business use should be allowed only when a valid applicator's license is produced.
- 3.5 Point of Purchase Pesticide Use Education

Oregon should require a licensed applicator or trained professional to explain the use of a product prior to providing it to a retail customer (similar to receiving advice from a pharmacist before purchasing a prescription).

TASK 4: BEST MANAGEMENT PRACTICES

POLICY OBJECTIVES -

• Develop Best Management Practices to Improve Pollinator Habitat

Best Management Practices (BMPs) are those practices determined to be the most efficient, practical, and cost-effective measures identified to guide a particular activity or to address a particular problem.

Identified Barrier to Progress:

 The development of BMPs may require a public process with staff support and adequate funding.

TASK FORCE RECOMMENDATIONS

Consensus Recommendations

4.1 <u>Best Management Practices</u>

- (a) OSU Extension should extend the reach of its existing programs targeted at pollinator health.
- (b) ODA and OSU Extension should continue and expand their work with the US Department of Agriculture and stakeholder groups and neighboring states to develop best management practices (BMPs) to improve pollinator health throughout Oregon, including in urban, roadside, and agricultural areas and to protect native and managed pollinators.
- (c) Best management practices on the use of pesticides, including neonicotinoids, should be developed and made available.

4.2 <u>State-Owned Lands</u>

- (a) Where practical, state agencies that manage lands, parks, right of ways, and other properties should consider using existing funding to prioritize the development and maintenance of pollinator habitat within their jurisdictions, including implementing at the state level the directives in the Presidential Memorandum Section 3 (Increasing and Improving Pollinator Habitat) as appropriate.
- (b) A review should be conducted of state policies that affect whether state-owned lands are pollinator friendly.

4.3 <u>State Pollinator Plan</u>

- (a) ODA, in collaboration with all relevant state agencies, should prepare and implement an Oregon Pollinator Health Strategy. The Strategy should address both native and managed pollinators and should be developed with stakeholders through a public process and include periodic reviews and updates. Plan elements may include but not be limited to:
 - Formal arrangement for communication between growers and bee owners,
 - Method/mechanism to know if there are native or managed bees near a treatment site,
 - Method for growers to contact beekeepers,
 - Notification time frame for pesticide applications, and
 - Recommendation to grower and applicators on how to minimize risks to bees.
- (b) The Oregon Pollinator Health Strategy should also serve as the state plan to implement appropriate portions of the <u>Presidential Memorandum—Creating a</u> <u>Federal Strategy to Promote the Health of Honey Bees and Other Pollinators.</u>
- (c) The Oregon Legislative Assembly should adopt a resolution recognizing the value of pollinators in enhancing Oregon's health and that we have an obligation to protect them.

4.4 Locally Owned and Private Lands

Counties, municipalities, and private landowners should be encouraged to make the development and maintenance of pollinator habitat a priority.

Split Opinion Recommendation

- 4.6 <u>Private Lands</u>
 - (a) Private landowners should be encouraged to make right-of-ways friendly to pollinators through pollinator-friendly plantings and restricting some pesticide applications. This includes on private property such as power-line right-of-ways, railroad right-of-ways, and logged sites.
 - (b) State agencies should encourage regional Conservation Implementation Strategies to encourage/incentivize pollinator habitat projects.
 - (c) State agencies should encourage contracting of beneficial insect habitat through the Conservation Stewardship Program.

TASK 5: RESEARCH NEEDS

POLICY OBJECTIVES -

• Address Pollinator Health Research Needs

Research is needed to identify, manage, and mitigate threats to both managed and native pollinators, including research in the following areas:

- 1. Rapid bee pest and disease diagnostics.
- 2. Investigating effects (sub-lethal and chronic) of systemic insecticides (especially neonicotinoids) on honey bee colony health and native bees.
- 3. Studies focused on interactions of multiple stress factors that are negatively impacting bee health (pests and diseases, pesticides, nutrition, genetic diversity, etc.).
- 4. Both basic and applied studies on improving bee nutrition.
- 5. Long-term studies/surveys to benchmark and monitor populations of bees and their health.

Identified Barriers to Progress:

- ~ Funding
- ~ The online registration process for commercial beekeepers is not functioning.

TASK FORCE RECOMMENDATIONS

Consensus Recommendations

5.1 <u>Pollinator Health</u>

- (a) Fund the Honey Bee Lab at OSU to establish a state-of-the-art bee health diagnostic facility.¹ Develop an integrated pollinator health research plan with state and federal partners with aggregated funding requests and areas of focus identified. OSU would focus on diagnostics (rapid response) and honey bee nutrition.
- (b) Encourage the completion of a research data gap analysis for a national approach to resolving pollinator health issues.
- (c) Create a competitive grant program for research proposals on pollinator health issues.
- (d) The Legislature should develop a sustainable funding plan for pollinator research at OSU to address pollinator health issues in bee-pollinated cropping systems.
- (e) OSU should recommend to EPA that it prioritize an IR-4 review of a product to control *Varroa* mites.
- (f) Oregon should support and possibly seek funds for pollinator habitat field trials at the Natural Resource Conservation Service/Plant Materials Center in Corvallis.

5.2 Research on Effect of Pesticides on Pollinators

- (a) Fund studies on the effects of neonicotinoids on pollinators, the interaction of multiple stressors negatively affecting pollinators, and basic and applied studies on improving bee nutrition and long-term surveys to monitor pollinator populations.
- (b) Encourage EPA or Oregon to fund and conduct studies of sub-lethal, cumulative doses of chemicals in our pesticides.
- (c) Encourage EPA or Oregon to fund and conduct studies of pesticides of common tank mixtures used in Oregon for toxicity to pollinators.

General Agreement Recommendation

5.3 Apiary Counts

Fund studies on the number, type, and location of bee colonies in Oregon (both native and managed) to establish a baseline measurement of bee populations in Oregon to determine whether the state is making progress in supporting pollinator health or managing and mitigating threats to pollinators.

¹ Estimated budget is \$500,000 for equipment and annual expenses of \$500,000 (salaries of two technicians and supplies and field team of two technicians to travel and sample bee hives).

Split Opinion Recommendations

- 5.4 <u>Pollinator Health</u>
 - (a) Develop an integrated pollinator health research plan with state and federal partners with aggregated funding requests and areas of focus identified. OSU to focus on diagnostics (rapid response), nutrition, and mites.
 - (b) Federal research dollars should be aggregated to establish national "expertise centers."

5.5 Apiary Counts/Registration

- (a) Establish a state apiary registration system for baseline of hive locations, numbers, etc. Require registration of bee hives including ownership, origin, and where hives have traveled via a re-activated, online beekeeper website.
- (b) Establish a national registration system for hives including diagnostic evaluation of hive health.
- 5.6 <u>Research on Effect of Pesticides on Pollinators</u>
 - (a) Encourage EPA to conduct studies that produce real field exposure data; e.g., testing formulated products (includes both active and inert ingredients), instead of labconducted exposures using only the active ingredient.
 - (b) Evaluate the cost of alternatives to the use of neonicotinoids, including a relative health assessment for both pollinators and humans, and the impact on the cost of production and potential economic loss to agriculture to provide a product to market.

TASK 6: FUNDING

POLICY OBJECTIVES

• Fund Recommended Actions to Improve Pollinator Health

Identified Barriers to Progress:

- ~ Funding
- ~ Current funding mechanisms are statutorily restricted.

TASK FORCE RECOMMENDATIONS:

Consensus Recommendations

6.1 <u>Revenue Sources and Use of Funds</u>

- (a) Re-establish Apiary Registration Fee and increase Pesticide Registration Fee.
 - Set apiary registration fee of \$10 and \$.50 per hive fee. All revenue used to support honey and native bee research.
 - Increase pesticide registration fee. All additional revenue used to fund ODA pesticide use outreach and education programs.

- (b) Support a direct appropriation to the OSU Extension for outreach and education on pollinator health to agriculture and landscapers. Support Recommendation 1.3: Funding should be provided to more widely distribute, regularly update and create mobile applications of the OSU publication "How to Reduce Bee Poisonings from Pesticides."
- (c) Support ODA policy option budget package of \$75,000 for phase 1 of pollinator health education program in 2015 legislative session.
- (d) State agencies should aggregate information on available funding to assist Oregon researchers.

Split Opinion Recommendations

- 6.2 <u>Revenue Sources</u>
 - (a) Increase the pesticide applicator license fee.
 - (b) Examine variations of the CA Mill Tax, Unclaimed Gas Tax as additional funding sources for ODA.
 - (c) Establish special Oregon license plates for "Protect Our Pollinators."
 - (d) Establish annual income tax check-off to support OSU Bee Lab.
 - (e) Research whether ODA could earmark Technical Assistance, Local Management Agency Funds, and/or Ag Water Quality Funds to go into pollinator work with the Conservation Districts in the state.

APPENDIX A

77th OREGON LEGISLATIVE ASSEMBLY--2014 Regular Session

Enrolled House Bill 4139

Sponsored by Representative REARDON; Representatives BARTON, KENY-GUYER, Senator JOHNSON (Presession filed.)

AN ACT

Relating to pollinator health; and declaring an emergency.

Be It Enacted by the People of the State of Oregon:

SECTION 1. Oregon State University, in consultation with the State Department of Agriculture, shall develop educational materials regarding the best practices for avoiding adverse effects from pesticides on populations of bees and other pollinating insects. The educational materials must include, but need not be limited to, measures that pesticide applicators and pesticide trainees can take to protect honeybees and bumblebees. The university and the department shall design the requirements to ensure that any pesticide applicator applying or supervising the application of a pesticide is knowledgeable regarding alternatives to, the appropriateness of, and precautions for pesticide use that may be injurious to the health of bees and other pollinating insects. The department shall make the educational materials described in this section a part of the education required for taking the pesticide applicator licensing examination under ORS 634.122.

SECTION 2. (1) The Task Force on Pollinator Health is established, consisting of 10 members appointed as follows:

(a) The President of the Senate, after consultation with the Speaker of the House of Representatives, shall appoint one nonvoting member from among members of the Senate.(b) The Speaker of the House of Representatives, after consultation with the President of the Senate, shall appoint one nonvoting member from among members of the House of Representatives who are from a different political party than the member appointed by the President of the Senate.

(c) The Governor shall appoint eight voting members as follows:

(A) One member who is a university faculty member specializing in the science of pollinator health.

(B) One member representing an advocacy group for nurseries and greenhouse producers.

(C) One member representing an advocacy group for farmers.

(D) One member representing an advocacy group dedicated to the protection of pollinators and invertebrates.

(E) One member representing an advocacy group dedicated to environmental protection.

(F) One member representing an advocacy group for retailers.

(G) One member, who is certified as a master gardener under the Oregon State University Master Gardener program, representing the public.

(H) One member, who is a beekeeper, representing the public.

(2) The task force shall undertake activities to examine issues relevant to pollinator health, including but not limited to:

(a) Studying proposed and enacted pesticide regulations from other states and countries that are more protective of pollinator health than the pesticide regulations of the United States Environmental Protection Agency.

(b) Studying public education and outreach plans regarding pollinator health that have been successful in other states.

(c) Evaluating the effectiveness of applicator licensing and other legal requirements, and of incentives, in matters affecting pollinator health.

(d) Identifying possible funding streams for efforts to promote or protect pollinator health.

(e) Investigating the means used by other states to gather data on populations of bees or other pollinating insects.

(f) Evaluating existing best management practices for applying neonicotinoids in a manner that avoids harming pollinating insects.

(3) The task force may take actions necessary and proper to carry out the work of the task force, including but not limited to scheduling hearings and taking testimony on matters related to pollinator health.

(4) A majority of the voting members of the task force constitutes a quorum for the transaction of business.

(5) Official action by the task force requires the approval of five or more voting members of the task force.

(6) The task force shall elect one of its voting members to serve as chairperson.

(7) If there is a vacancy for any cause, the appointing authority shall make an appointment to become immediately effective.

(8) The task force shall meet at times and places specified by the call of the chairperson or of a majority of the voting members of the task force.

(9) The task force may adopt rules necessary for the operation of the task force.

(10) The task force shall submit a report in the manner provided by ORS 192.245, and may include recommendations for legislation, to an interim committee of the Legislative Assembly related to agriculture no later than October 1, 2014. The task force may provide progress reports to an interim committee related to agriculture prior to October 1, 2014.
(11) The Legislative Administration Committee shall provide staff support to the task force.
(12) Members of the task force who are not members of the Legislative Assembly are not entitled to compensation, but may be reimbursed for actual and necessary travel and other expenses incurred by them in the performance of their official duties in the manner and

amounts provided for in ORS 292.495. Claims for expenses incurred in performing functions of the task force shall be paid out of funds appropriated to the committee for purposes of the task force.

(13) All agencies of state government, as defined in ORS 174.111, are directed to assist the task force in the performance of its duties and, to the extent permitted by laws relating to confidentiality, to furnish such information and advice as the members of the task force consider necessary to perform their duties.

SECTION 3. Section 2 of this 2014 Act is repealed on the date of the convening of the 2015 regular session of the Legislative Assembly as specified in ORS 171.010.

SECTION 4. This 2014 Act being necessary for the immediate preservation of the public peace, health and safety, an emergency is declared to exist, and this 2014 Act takes effect on its passage.

Appendix B

SUMMARY OF TASK FORCE RECOMMENDATIONS

| 1. | OUTREACH AND EDUCATION | |
|-----|---|-------------------|
| 1.1 | Develop Oregon Pollinator Health Outreach and Education Plan. | consensus |
| 1.2 | Clarify the Bee Incident Reporting system. | consensus |
| 1.3 | Provide funding to widely distribute OSU publication "How to Reduce Bee | consensus |
| | Poisonings from Pesticides." | |
| 2. | PESTICIDE REGULATION | |
| 2.1 | ODA should continue its work with the US Environmental Protection | consensus |
| (a) | Agency (EPA) to improve pesticide use labels and should advocate for | |
| | prominent, easy-to-understand label information on the use of a pesticide | |
| | product to protect pollinator health. | |
| 2.1 | ODA should continue to encourage EPA to develop a system to convey risk | consensus |
| (b) | to pollinators on pesticide labels. | |
| 2.1 | ODA should help create guidance materials for applicators to better | consensus |
| (c) | explain label requirements. | |
| 2.2 | The 2014 ODA decision requiring that the use of existing stocks of | consensus |
| (a) | imidacloprid and dinotefuran products with old labels must follow the | |
| | temporary rule requirements regarding Linden trees should be continued. | |
| 2.2 | ODA should continue to investigate alternatives to the use of certain | |
| (b) | neonicotinoids (clothianidin and thiamethoxam) on Linden trees. | |
| 2.3 | EPA labeling should include more symbols to alleviate language barriers. | consensus |
| 2.4 | ODA should create and regularly update a list of pesticides classified as | consensus |
| (a) | "Restricted Use" in accordance with current statute: ORS 634.006 (21). | |
| | This list should be readily available on the ODA website. | |
| 2.4 | The Task Force should write a letter to EPA requesting that the agency | consensus |
| (b) | adopt application rates for neonicotinoids for backyard use that are | |
| | equivalent to agricultural use rates. | |
| 2.4 | The State IPM Task Force should review use of neonicotinoids on state | consensus |
| (c) | lands. | |
| 2.5 | ODA should review and revise the schedule of penalties for improper or | consensus |
| (a) | unlicensed pesticide use. | |
| 2.5 | Legislature should review and revise the maximum penalties for pesticide | consensus |
| (b) | use violations set in statute. | |
| 2.6 | ODA should develop a more robust, pro-active inspection program to | general agreement |
| | encourage the proper application of pesticides. | |
| 2.7 | EPA should conduct all field tests of pesticides as they are formulated for | split opinion |
| | sales (complete with additives) to determine true level of toxicity to target | |
| 2.0 | and non-target organisms. | |
| 2.8 | ODA should investigate a ban on the use of certain neonicotinoids on | split opinion |
| (a) | Linden trees to include two additional neonicotinoids (clothianidin and | |
| 2.0 | thiamethoxam). | |
| 2.8 | Extend ODA's current ban on the use of dinotefuran and imidacloprid on | split opinion |
| (b) | Linden trees to application on other key, non-crop pollinator host and | |
| | forage plants. | |
| | | |

| 2.8 | Neonicotinoid use on state lands should be prohibited. | split opinion |
|-------------|--|-------------------|
| (c) 2.9 | ODA should conduct random hive inspections for the purpose of pest and pathogen detection. If a pest/pathogen of concern is detected, further inspections of nearby hives and other hives of those owners should be conducted. | split opinion |
| 2.10 (a) | To expand upon and standardize the commitment of many retailers including Home Depot, Oregon should enact a law requiring labeling of plants for sale that have been treated with neonicotinoids. | split opinion |
| 2.10 (b) | Similar to Minnesota's new law, Oregon should enact a law to prohibit the labeling of plants and plant materials as "pollinator friendly" if they have been treated with a highly toxic, long-lived systemic insecticide. | split opinion |
| 3. LI | CENSING AND TRAINING OF PESTICIDE APPLICATORS | |
| 3.1 (a) | ODA should amend OAR 603-057-0135 to include a "Pollinator Protection" training module as a core credit requirement for a pesticide applicator license. | consensus |
| 3.1 (b) | ODA should establish an online training resource that is coded by topic so applicators can search for classes on specific topics, including pollinator health. | consensus |
| 3.1 (c) | The Integrated Pest Management (IPM) training required for applicators covering what IPM is and how it is used should be increased. | consensus |
| 3.2 | ODA should consider beta testing of training programs, including but not limited to the North American Pesticide Program and collaborate on training with other entities such as BeeInformed Project (through AmericanHort) and the Honeybee Health Coalition (Clinton Global Initiative). | general agreement |
| 3.3 | The Oregon Pesticide Use Reporting System should be reactivated and funded. | general agreement |
| 3.4 (a) | Oregon should require an applicator license for anyone who applies general-use pesticides on a regular basis as part of their employment. | split opinion |
| 3.4 (b) | Oregon should require a license for crop advisors and others who give advice on purchase and use of pesticides. | split opinion |
| 3.4 (c) | The sale of pesticides in quantities for commercial or business use should be allowed only when a valid applicator's license is produced. | split opinion |
| 3.5 | Oregon should require a licensed applicator or trained professional to explain the use of a product prior to providing it to a retail customer (similar to receiving advice from a pharmacist before purchasing a prescription). | split opinion |
| 4. BE | ST MANAGEMENT PRACTICES | |
| 4.1 (a) | OSU Extension should extend the reach of its existing programs targeted at pollinator health. | consensus |
| 4.1 (b) | ODA and OSU Extension should continue and expand their work with the US Department of Agriculture and stakeholder groups and neighboring states to develop best management practices (BMPs) to improve pollinator health throughout Oregon. | |
| 4.1 (c) | Best management practices on the use of pesticides, including neonicotinoids, should be developed and made available. | consensus |

| 4.2 | A review should be conducted of state policies that affect whether state- | conconsus |
|------------|--|---------------|
| 4.2 (a) | owned lands are pollinator friendly. | consensus |
| 4.2 | Where practical, state agencies that manage lands, parks, right of ways, | consensus |
| (b) | and other properties should consider using existing funding to prioritize | conscisus |
| (5) | the development and maintenance of pollinator habitat within their | |
| | jurisdictions, including implementing at the state level the directives in the | |
| | Presidential Memorandum Section 3 (Increasing and Improving Pollinator | |
| | Habitat) as appropriate. | |
| 4.3 | ODA should prepare and implement an Oregon Pollinator Health Strategy. | consensus |
| (a) | | |
| 4.3 | The Oregon Pollinator Health Strategy should also serve as the state's plan | consensus |
| (b) | to implement appropriate portions of the Presidential Memorandum on | |
| | honey bee and other pollinator health. | |
| 4.3 | The Oregon Legislative Assembly should adopt a resolution recognizing the | consensus |
| (c) | value of pollinators in enhancing Oregon's health and that we have an | |
| | obligation to protect them. | |
| 4.4 | Counties, municipalities, and private landowners should be encouraged to | consensus |
| | make the development and maintenance of pollinator habitat a priority. | |
| 4.5 | Private landowners should be encouraged to make right-of-ways friendly | split opinion |
| (a) | to pollinators through pollinator-friendly plantings and restricting some | |
| | pesticide applications. This includes on private property such as power- | |
| | line right-of-ways, railroad right-of-ways, and logged sites. | |
| 4.5 | State agencies should encourage regional Conservation Implementation | split opinion |
| (b) | Strategies to encourage/incentivize pollinator habitat projects. | |
| 4.5 | State agencies should encourage contracting of beneficial insect habitat | split opinion |
| (c) | through the Conservation Stewardship Program. | |
| 5. R | ESEARCH NEEDS | |
| 5.1 | Fund the Honey Bee Lab at OSU to establish a state-of-the-art bee health | consensus |
| (a) | diagnostic facility. | |
| 5.1 | Encourage the completion of a research data gap analysis for a national | consensus |
| (b) | approach to resolving pollinator health issues. | |
| 5.1 | Create a competitive grant program for research proposals on pollinator | consensus |
| (c) | health issues. | |
| 5.1 | The Legislature should develop a sustainable funding plan for pollinator | consensus |
| (d) | research at OSU to address pollinator health issues in bee-pollinated | |
| | cropping systems. | |
| 5.1 | OSU should recommend to EPA that it prioritize an IR-4 review of a | consensus |
| (e) | product to control mites. | |
| 5.1 | Oregon should support and possibly seek funds for pollinator habitat field | consensus |
| (f) | trials at the Natural Resource Conservation Service/Plant Materials Center | |
| 5.2 | in Corvallis. | conconcurs |
| | Fund studies on the effects of neonicotinoids on pollinators, the | consensus |
| (a) | interaction of multiple stressors negatively affecting pollinators, and basic | |
| | and applied studies on improving bee nutrition and long-term surveys to monitor pollipator populations | |
| 5 0 | monitor pollinator populations. | conconcus |
| 5.2 (b) | Encourage EPA or Oregon to fund and conduct studies of sub-lethal, | consensus |
| (b) 5.2 | cumulative doses of chemicals in our pesticides. Encourage EPA or Oregon to fund and conduct studies of pesticides of | consonsus |
| 5.2 | I Encourage EFA of Oregon to fund and conduct studies of pesticides of | consensus |

| (c) | common tank mixtures used in Oregon for toxicity to pollinators. | |
|-----|---|-------------------|
| 5.3 | Fund studies on the number, type, and location of bee colonies in Oregon, | general agreement |
| | both native and managed, to establish a baseline measurement of bee | |
| | populations in Oregon to determine whether the state is making progress | |
| | in supporting pollinator health or managing and mitigating threats to | |
| | them. | |
| 5.4 | Develop an integrated pollinator health research plan with state and | split opinion |
| (a) | federal partners with aggregated funding requests and areas of focus | |
| | identified. OSU to focus on diagnostics (rapid response), nutrition, and | |
| | mites. | |
| 5.4 | Federal research dollars should be aggregated to establish national | split opinion |
| (b) | "expertise centers." | |
| 5.5 | Establish a state apiary registration system for baseline of hive locations, | split opinion |
| (a) | numbers, etc. Require registration of bee hives including ownership, origin | |
| | and where hives have traveled via a re-activated, online beekeeper | |
| | website. | |
| 5.5 | Establish a national registration system for hives including diagnostic | split opinion |
| (b) | evaluation of hive health. | |
| 5.6 | Encourage EPA to conduct studies that produce real field exposure data; | split opinion |
| (a) | e.g., use pesticides as they are formulated for sale with all included | |
| | chemicals, inert ingredients, and carrier chemicals in field trials, instead of | |
| | lab-conducted exposures using only the active ingredient. | |
| 5.6 | Evaluate the cost of alternatives to the use of neonicotinoids, including a | split opinion |
| (b) | relative health assessment for both pollinators and humans, and the | |
| | impact on the cost of production and potential economic loss to | |
| | agriculture to provide a product to market. | |
| | NDING | |
| 6.1 | Re-establish Apiary Registration Fee and increase Pesticide Registration | consensus |
| (a) | Fee. Use apiary fee revenue to support honey and native bee research. | |
| | Use pesticide registration fee to support ODA or OSU Extension pesticide | |
| | use outreach and education programs. | |
| 6.1 | Support a direct appropriation to the OSU Extension for outreach and | consensus |
| (b) | education on pollinator health to agriculture and landscapers. | |
| 6.1 | Support ODA policy package of \$75,000 for phase 1 of pollinator health | consensus |
| (c) | education program in the 2015 Oregon legislative session. | |
| 6.1 | State agencies should aggregate information on available funding to assist | consensus |
| (d) | Oregon researchers. | |
| 6.2 | Increase the pesticide applicator license fee. | split decision |
| (a) | | |
| 6.2 | Examine variations of the CA Mill Tax, Unclaimed Gas Tax as additional | split decision |
| (b) | funding sources for ODA. | |
| 6.2 | Establish special Oregon license plates for "Protect Our Pollinators." | split decision |
| (c) | | |
| 6.2 | Establish annual income tax check-off to support OSU Bee Lab. | split decision |
| (d) | | |
| 6.2 | Research whether ODA could earmark Technical Assistance, Local | split decision |
| | | |
| (e) | Management Agency Funds, and/or Ag Water Quality Funds to go into pollinator work with the Conservation Districts in the state. | |