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Director

California Notice 2020-02

SEMIANNUAL REPORT SUMMARIZING THE REEVALUATION STATUS OF PESTICIDE PRODUCTS DURING THE PERIOD OF July 1, 2019 THROUGH December 31, 2019

California regulations require the Department of Pesticide Regulation (DPR) to investigate reports of possible adverse effects to people or the environment resulting from the use of pesticides. Reevaluation of a registered pesticide is required if a significant adverse impact occurred, or is likely to occur, from its use.

Title 3 of the California Code of Regulations (3 CCR) section 6221, specifies several factors under which DPR may initiate a reevaluation: (a) public or worker health hazard, (b) environmental contamination, (c) residue over tolerance, (d) fish or wildlife hazard, (e) lack of efficacy, (f) undesirable phytotoxicity, (g) hazardous packaging, (h) inadequate labeling, (i) disruption of the implementation or conduct of pest management, (j) other information suggesting a significant adverse effect, (k) availability of an effective and feasible alternative material or procedure that is demonstrably less destructive to the environment, and (l) discovery that data upon which a registration was issued is false, misleading, or incomplete. Often, an ongoing DPR pesticide review triggers a reevaluation. Reevaluation triggers also include data or information received from state and county pesticide use surveillance and illness investigations, pesticide residue sample analyses, environmental monitoring activities, and issues that may concern other state or federal agencies.

When a pesticide enters the reevaluation process, DPR reviews existing data and may require that registrants provide additional data to characterize the nature and extent of the potential hazard and identify appropriate mitigation measures if needed.

DPR concludes reevaluations in a number of different ways. If the data demonstrates use of the pesticide presents no significant adverse effects, DPR concludes the reevaluation without additional mitigation measures. If additional mitigation measures are necessary, DPR will place appropriate restrictions on the use of the pesticide to mitigate the potential adverse effect. If the adverse impact cannot be mitigated, DPR cancels or suspends the registration of the pesticide product.

This report complies with the requirement of 3 CCR section 6225, which requires DPR to prepare a semiannual report describing pesticides reevaluated, under reevaluation, or for which factual or scientific information was received, but no reevaluation was initiated. The report contains two sections:

- I. *Formal Reevaluations*--initiated when an investigation indicates a significant adverse impact has occurred or is likely to occur; and,
- II. *Preliminary Investigations (Evaluations)*--initiated when DPR receives possible adverse impact data or information resulting from the use of a product and/or active ingredient, but no formal reevaluation has been initiated (see page 11).

CALIFORNIA NOTICE 2018-01

California Notice 2018-01, titled Expanding Use of Pesticide Products under Reevaluation, was issued on January 3, 2018. In accordance with this notice, DPR will not act upon an Application for Pesticide Registration or Application to Amend Pesticide Products if it is relevant to the concern that prompted the reevaluation. The notice affects new products, supplemental distributor registrations, amendments, Special Local Needs, and Experimental Use Permits. DPR will evaluate Emergency Exemption requests on a case-by-case basis if a pest management or public health need arises. When DPR completes the reevaluation, DPR will be able to, in light of the reevaluation determination, consider the Application for Pesticide Registration or Application to Amend Pesticide Products.

To view the notice, please visit DPR's California Notices to Stakeholders Web page at <<https://www.cdpr.ca.gov/docs/registration/canot/camenu.htm>>.

FORMAL REEVALUATION

DPR initiates formal reevaluation when an investigation indicates a significant adverse impact has occurred or is likely to occur. Each reevaluation is summarized with regard to the following four areas: (1) *Basis and Scope*, (2) *Data Requirements* (if any), (3) *Summary* (e.g., protocol development, study/data submission and evaluation, DPR analysis papers, risk assessments), and (4) *Mitigation Efforts and Status*.

CHLOROPICRIN - 29 Products

Basis and Scope: In October 2001, DPR placed pesticide products containing the active ingredient chloropicrin into reevaluation. The reevaluation is based on air monitoring data, which found that air concentrations at some distances from treated greenhouses exceeded the National Institute for Occupational Safety and Health reference exposure limit and the Occupational Safety and Health Administration permissible exposure limit of 100 parts per billion (ppb), averaged over an eight-hour period. In addition, DPR found that data submitted under the Birth Defects Prevention Act indicated chloropicrin has the potential to cause adverse health effects at low doses.

Data Requirements: Under this reevaluation, DPR required registrants of pesticide products containing the active ingredient chloropicrin to conduct and submit data on various worker exposure and air quality monitoring studies from field and greenhouse applications. In August 2005, DPR completed its review of the required monitoring data and began work on a risk assessment of chloropicrin uses as part of the reevaluation process to mitigate potential adverse effects at low concentrations. In January 2015, DPR notified chloropicrin registrants of a new data requirement to determine if chronic exposure to chloropicrin presents a carcinogenic hazard requiring mitigation. In July 2015, DPR established a mechanistic study data requirement for the scientific assessment of the carcinogenic hazard of chloropicrin based on evaluation of submitted and other available data and information.

Summary: In February 2010, DPR completed a risk characterization document (RCD) for chloropicrin as a toxic air contaminant (TAC). The RCD analyzed the risks associated with potential exposures to residents and bystanders from ambient and offsite air concentrations of agricultural use chloropicrin products. The California Air Resources Board's Scientific Review Panel on Toxic Air Contaminants completed its peer review of the document in April 2010. In December 2010, DPR filed a regulation listing chloropicrin as a TAC. Also in December 2010, based on the TAC risk assessment, DPR issued a risk management directive (RMD) to address resident and bystander exposures identified by the TAC evaluation. This RMD determined that the appropriate regulatory target level to restrict acute exposure to chloropicrin is 73 ppb averaged over an eight-hour period. Chloropicrin was designated as a TAC effective January 8, 2011, and DPR initiated development of use restrictions following TAC procedures specified in state law. In November 2012, DPR completed its comprehensive RCD for chloropicrin, which included dietary and occupational exposure scenarios.

In July 2015, DPR established a new mechanistic data requirement to attain more information on the potential carcinogenicity of chloropicrin. On several occasions, the Chloropicrin Manufacturers' Task Force (CMTF), which represents chloropicrin registrants, met with DPR to discuss technical elements, methodology, and study protocol. In June 2016, DPR accepted the CMTF protocol for the mechanistic study titled, *Identification of mouse lung target cell type and target respiratory region for effects following nose-only inhalation exposure to chloropicrin vapor*. In December 2016, DPR met with CMTF to discuss study timeline, logistics, technical challenges, an extension request from CMTF, and an additional information request from DPR.

In March 2017, CMTF provided additional information and an update on the initiation of the study. In April 2017, CMTF provided a progress report. In May 2017, DPR granted CMTF's extension request establishing a new final study submission due date of December 31, 2020, and added the requirement to submit quarterly interim reports. In 2018 and 2019, CMTF submitted the required quarterly interim reports.

In March 2019, DPR met with CMTF to discuss the on-going study. During the meeting, CMTF recommended DPR review and consider public literature, which DPR received in May 2019. DPR scientists will incorporate relevant public literature into their review of the completed

study. In October 2019, in response to a question from DPR scientists, CMTF submitted clarification on the protocol. On December 13, 2019, CMTF submitted a draft amendment to the study protocol. After review, DPR requested to meet with CMTF to get clarification on the draft proposed protocol amendment. A meeting is scheduled for early 2020.

Mitigation Efforts and Status: During the course of this reevaluation, the U.S. EPA developed label mitigation measures under its Reregistration Eligibility Decision (RED) for products containing chloropicrin. These soil fumigant label measures require users to prepare site-specific Fumigant Management Plans and are intended to mitigate unacceptable exposures to workers, residents, and bystanders. The measures were implemented in two phases and went into effect on December 31, 2010, and December 1, 2012. The measures added more restrictions, prohibitions, human health protection language, and information on the product label. DPR completed its fumigant label reviews and DPR continues to monitor new and amended pesticide product registrations to ensure labeling compliance.

In May 2013, DPR proposed mitigation measures designed to protect bystanders and residents from acute exposures to chloropicrin for public comment. DPR developed these mitigation measures using U.S. EPA's label changes as the foundation for mitigating offsite exposures. DPR proposed additional restrictions beyond labeling and regulation to protect residents and bystanders including additional buffer zones, restriction on buffer zone credits, acreage limits, time periods between applications with overlapping buffer zones, emergency preparedness and response, and notice of intent requirements. DPR developed the proposed mitigation measures in consultation with the California Air Resources Board, the air pollution control districts, and the county agricultural commissioners, as required by California Food and Agricultural Code (FAC) section 14024(a). In addition to consulting with state and local agencies required by law, DPR discussed early mitigation concepts with worker advocate groups and registrants. DPR also submitted its analysis entitled, "Evaluation of Chloropicrin as a Toxic Air Contaminant, Part B Human Health Assessment" for scientific peer review. DPR received and responded to comments from several thousand people and three external scientific peer reviewers.

In early January 2015, DPR posted "Control Measures for Chloropicrin: Control of Resident and Bystander Acute Exposure from Soil Fumigation Applications." The controls are intended to reduce risk from acute exposures to residents and bystanders that might occur near fields fumigated with products containing chloropicrin. Also in January 2015, DPR presented the chloropicrin mitigation measures to the Pesticide Registration and Evaluation Committee (PREC) and members of the public. In April 2015, DPR issued interim recommended restricted material permit conditions for field fumigants containing chloropicrin. In February 2017, DPR issued revised interim permit conditions developed to mitigate hazards of offsite movement of field fumigation applications of chloropicrin. More information on human health risk assessment and mitigation for chloropicrin is available on DPR's Human Health Risk Assessment and Mitigation Web page at <http://www.cdpr.ca.gov/docs/whs/active_ingredient/chloropicrin.htm>.

For more information on the reevaluation for chloropicrin, please visit DPR's Reevaluation Web page at <<http://www.cdpr.ca.gov/docs/registration/reevaluation/chemicals/chloropicrin.htm>>.

CYFLUTHRIN - 26 Products

Basis and Scope: In May 1998, DPR placed pesticide products containing the active ingredient cyfluthrin into reevaluation. The reevaluation is based on DPR's investigations of a May 1997 respiratory irritation outbreak reported among orange harvesters exposed to cyfluthrin residues and other related pesticide illness reports. As part of the investigation, DPR's Worker Health and Safety Branch conducted two separate inhalation-monitoring studies in orange groves during orange harvest. As dust and pollen are a part of the normal working environment, DPR determined that additional variables in the work environment led to the workers' respiratory irritation symptoms. DPR compiled the results in its monitoring study titled, *Health and Safety Report HS – 1765*, which found a probability that cyfluthrin, applied close to harvest, led to the symptoms experienced.

Data Requirements: Under this reevaluation, DPR required registrants of pesticide products containing the active ingredient cyfluthrin to provide (1) a respiratory irritation study, (2) a worker exposure study, and (3) monitoring data for structural applications. In October 2001, the primary manufacturer submitted two worker exposure studies regarding hand harvesting of oranges and sweet corn, four indoor exposures studies, and a study titled, *Study on the RD₅₀ Determination in Rats*. Based on this data, DPR determined structural monitoring data was no longer required.

However, during the course of this reevaluation, DPR determined it had insufficient data regarding worker exposure during the hand harvesting of sweet corn. As a result, in February 2002, DPR required a worker exposure study be conducted during the harvesting of sweet corn. The results of the study were submitted to DPR in October 2004.

Summary: In 2006, DPR determined a comprehensive exposure assessment was necessary for cyfluthrin. In September 2008, DPR completed an Exposure Scoping Document for cyfluthrin intended to lay the groundwork for the risk assessment process. DPR completed review of cyfluthrin sweet corn hand harvester studies and the reevaluation is pending further assessment of the potential risks associated with the use of cyfluthrin. In August 2015, DPR completed its Summary of Toxicology Data document for chronic health effects on cyfluthrin.

Mitigation Efforts and Status: In January 2018, the problem formulation document to initiate risk assessment was posted to DPR's Web site. In February 2018, DPR presented the problem formulation document and initiation of the risk assessment for cyfluthrin to the PREC. Additionally, U.S. EPA's registration review of cyfluthrin is currently in progress. DPR will collaborate with U.S. EPA on the risk assessment, where possible. If DPR's risk characterization concludes that use of cyfluthrin poses a risk to workers, DPR will proceed with mitigation. More information on the human health risk assessment for cyfluthrin and additional resources are available on DPR's Human Health Risk Assessment and Mitigation by Active Ingredient Web page at <http://www.cdpr.ca.gov/docs/whs/active_ingredient/cyfluthrin.htm>.

For more information on the reevaluation for cyfluthrin, please visit DPR's Reevaluation Web page at <<http://www.cdpr.ca.gov/docs/registration/reevaluation/chemicals/cyfluthrin.htm>>.

NEONICOTINOIDS (NITROGUANIDINE INSECTICIDES) - 245 Products

Basis and Scope: In February 2009, DPR placed certain pesticide products containing the active ingredients imidacloprid, thiamethoxam, clothianidin, and dinotefuran into reevaluation. The reevaluation is based on an adverse effects disclosure involving the active ingredient imidacloprid. DPR's evaluation of the adverse effects data noted two critical findings: (1) high levels of imidacloprid in leaves and blossoms of treated plants and (2) increases in residue levels over time. Thiamethoxam, dinotefuran, and clothianidin are in the same chemical family as imidacloprid, known as the nitroguanidine insecticide class of neonicotinoids, and have similar properties and characteristics (e.g., soil mobility, half-lives, and toxicity to honey bees).

Data Requirements: Under this reevaluation, DPR required registrants of pesticide products containing the active ingredients imidacloprid, thiamethoxam, clothianidin, and dinotefuran to provide the following data for each active ingredient: (1) LC₅₀ (acute), categorized as a Tier I study, on honey bees, starting at the larval stage through emergence; and (2) field-based residue studies in pollen, nectar, and leaves from specific agricultural orchard and row crops. For field-based residue data requirements, DPR's Pesticide Use Reporting database was used to determine the crops of focus for each active ingredient. During the course of this reevaluation, initial field residue data provided were found to be inconclusive and did not involve "worst-case" scenarios, i.e., a residue study conducted at the permitted California maximum application rate and the minimum reapplication interval. DPR modified its residue study strategy to require controlled applications at the highest maximum application rate per year for two consecutive years. For certain commodities, DPR required these two-year prescriptive residue studies of imidacloprid, thiamethoxam, clothianidin, and dinotefuran registrants.

Additionally, U.S. EPA requires higher tier honey bee toxicity studies and additional field-based residue studies for their reevaluation of neonicotinoids, which are shared with DPR and the Pest Regulatory Management Agency (PMRA) Health Canada. A Tier II study, or a feeding study, exposes bee colonies to known concentrations of a pesticide and examines the chronic effect. A Tier III study, or full field study, is a field-level study that looks at long-term effects under environmentally realistic exposure conditions.

Summary (by Active Ingredient):

Imidacloprid: In September 2009, DPR notified registrants of products containing the active ingredient imidacloprid of the LC₅₀ and field residue study data requirements. DPR required residue data on the following eight commodities: almonds, citrus, cotton, cucurbits, fruiting vegetables, pome fruit, strawberries, and later, also required data on stone fruits. Rather than conduct a residue study for almonds, imidacloprid registrants removed use on almonds from their labels, beginning in January 2011.

In May 2011, DPR received final reports for residue studies conducted on citrus, cotton, and tomato. Upon review of the submitted reports, DPR found both the cotton and tomato studies to be unacceptable because they did not represent worst-case scenarios. As a result, in March 2012, DPR expanded the crops required to include stone fruit, and required two-year prescriptive residue studies representing worst-case scenarios for cotton, tomatoes, pome fruit, and stone fruit.

In March 2012, DPR received a final report on chronic toxicity effects to larval honey bees. In April 2012, the primary manufacturer submitted additional studies on citrus. In December 2012, DPR received final reports on strawberry and melon. In December 2014, DPR received a final report on chronic toxicity effects to adult honey bees and received U.S. EPA-required residue data on blueberry, citrus, corn, cotton, stone fruit, and rotational white clover used as forage. In January and April 2016, DPR received final reports on cotton, tomatoes, apples, and cherries. In March and July 2017, DPR received U.S. EPA-required full field data on cotton and pumpkins.

Thiamethoxam: In September 2009, DPR notified registrants of products containing the active ingredient thiamethoxam of the LC₅₀ and field residue study data requirements. DPR required residue data on the following eight commodities: cucurbits, fruiting vegetables, pome fruit, strawberries, and later, on almonds, citrus, cotton, and stone fruit.

In March 2011, the primary manufacturer requested a waiver for the residue study requirement on pome fruit and strawberries due to limited California field applications of thiamethoxam in 2009 and 2010. DPR granted a waiver for the residue study on pome fruit. In January 2012, the primary manufacturer submitted final reports for residues in tomatoes and acute toxicity effects to larval honey bees.

In October 2012, DPR expanded the required crops to include almond, citrus, cotton, and stone fruit. In addition, DPR required two-year prescriptive residue studies for strawberry, almond, citrus, cotton, and stone fruit. In January 2013, DPR received a final report on cucurbits (cucumbers). In February 2013, rather than conduct a residue study for almonds, thiamethoxam registrants removed use on almonds from their labels. In December 2015, DPR received final reports on cotton and stone fruit (cherry, peach, and plum), as well as U.S. EPA-required residue data on cranberry, cucumber, pepper, tomato, and soybean treated seed. In March 2016, DPR received a final report on a voluntary orange study and U.S. EPA-required residue data on citrus. In March and July 2017, DPR received final reports on citrus and strawberry, as well as U.S. EPA-required residue data on tomato, pumpkin, melon, corn, and apple. In November 2017, DPR received a final report on chronic toxicity effects to adult honey bees, an amended final report on cotton, and U.S. EPA-required residue data on sweet orange and blueberry. In April 2018, DPR received amended U.S. EPA-required residue data on citrus.

Clothianidin: In September 2009, DPR notified registrants of products containing the active ingredient clothianidin of the LC₅₀ and field residue study data requirements. DPR required residue data on the following five commodities: almonds, cucurbits, fruiting vegetables, pome fruit, and stone fruits. In November 2009, the clothianidin primary manufacturer requested, and

was granted, a waiver for the residue study on pome fruit due to limited use in California. In February 2012, the primary manufacturer submitted a final report on chronic toxicity effects to larval honey bees.

In May 2013, DPR required two-year prescriptive residue studies for almond, cucurbit, fruiting vegetable, and stone fruit. In October 2015, DPR received a final residue report on cotton. In April and May 2015, DPR received a final report on pumpkins and U.S. EPA-required residue data on citrus and cucurbits. In lieu of conducting the residue studies on fruiting vegetables, clothianidin registrants removed fruiting vegetables from their labels. From March to July 2016, DPR received U.S. EPA-required residue data on cotton, pumpkin, potato, as well as additional residue data on cucurbit and citrus. In February 2017, DPR received a final residue study report on almonds, a final report on chronic toxicity effects to adult honey bees and received U.S. EPA-required residue data on corn, grapevines, apples, and melon. From March 2017 to March 2018, DPR received additional final reports on chronic toxicity effects to adult honey bees and submissions of U.S. EPA-required residue data on soybean treated seed, peach, and additional residue studies on corn and citrus.

Dinotefuran: In September 2009, DPR notified registrants of products containing dinotefuran of the LC₅₀ and field residue study data requirements. DPR required residue data on the following three commodities: cotton, cucurbits, and fruiting vegetables. In response, the primary manufacturer submitted data and information, including limited use data, for DPR review and consideration.

In March 2012, the primary manufacturer provided DPR with reports evaluating foraging honey bees and hives after exposure to dinotefuran, and acute toxicity effects to honey bee data. In October 2015, DPR received a final report on acute larval toxicity effects to honey bees. During the report period, DPR received final residue reports on cucurbits (cucumber) and fruiting vegetables (tomatoes). In February and March 2016, DPR received U.S. EPA-required residue data on potato, pumpkin, cherry, and cranberry. In February 2017, DPR received a final residue report on cotton, chronic toxicity effects to adult honey bees, and U.S. EPA-required residue data on stone fruit, bell pepper, cucurbit, cantaloupe, and blueberry.

Multi-Agency Collaboration: Later in June 2014, DPR, U.S. EPA, and PMRA Health Canada completed a collaborative document titled, *Guidance for Assessing Pesticide Risks to Bees*. In June 2014, a Presidential Memorandum creating a federal strategy to promote the health of honey bees and other pollinators was signed. The document is available on U.S. EPA's Pollinator Protection Web site at <<http://www.epa.gov/pollinator-protection>>.

In January 2016, U.S. EPA released a preliminary pollinator risk assessment for imidacloprid, which was a collaborative effort between DPR, U.S. EPA, and PMRA Health Canada. In January 2017, U.S. EPA released the preliminary pollinator risk assessments for thiamethoxam, clothianidin, and dinotefuran. DPR continues to work closely with its partners to investigate all available sources of residue and honey bee effects data that may be scientifically meaningful to the reevaluation.

Mitigation Efforts and Status: In April 2010 and December 2012, imidacloprid and thiamethoxam registrants, respectively, agreed to remove use on almonds from all product labels in California. DPR considers this an important mitigation step in pollinator protection since almond orchards require a large number of pollinators.

In August 2013, U.S. EPA notified registrants of neonicotinoids of new labeling requirements for all products having outdoor foliar use directions (except granular formulations). This required registrants to include prescribed bee protective language on their product labels by the 2014 agricultural-use season for both existing and new product registrations. In November 2013, DPR required registrants to submit amended labels to California within 30 days of U.S. EPA acceptance. DPR has completed its review of these pollinator label changes and continues to monitor new and amended product registrations to ensure labeling compliance. Improved pollinator protective labels are currently in the California marketplace.

In July 2018, DPR submitted the California Neonicotinoid Risk Determination to the State Legislature in accordance with the requirements of California Food and Agriculture Code (FAC) section 12838. The risk determination report is a refined Tier II assessment built off of U.S. EPA's preliminary pollinator risk assessments and includes additional data that DPR received after the preliminary pollinator risk assessments were issued. The report compares colony feeding study values to worst-case scenario residue values to determine risks to honey bees. In accordance with FAC section 12838, DPR must adopt necessary control measures to protect pollinator health within two years of the determination report being issued. In September 2018, DPR presented the risk determination report and the next steps required by FAC section 12838 at the PREC meeting. During the two-year period, DPR will continue to review data and consult with experts and other stakeholders to help inform mitigation decisions.

After issuing the California Neonicotinoid Risk Determination, DPR received information from Syngenta Crop Protection, LLC, identifying items in the risk determination report that were appropriate to change. In an effort to report the most accurate information possible, based on the newly available information, DPR prepared an Addendum to the July 2018 California Neonicotinoid Risk Determination, and released it in January 2019.

DPR met and continues to meet with stakeholders to learn about commodity cultivation practices and neonicotinoid use patterns in the field while also meeting with registrants to discuss potential mitigation strategies. DPR continues to work towards adopting mitigation measures as required by FAC section 12838. Additionally, U.S. EPA is scheduled to issue their final pollinator risk assessments for the four neonicotinoid active ingredients in early 2020, which may provide additional mitigation strategy options.

For more information on the reevaluation for neonicotinoids, please visit DPR's Reevaluation Web page at

<<http://www.cdpr.ca.gov/docs/registration/reevaluation/chemicals/neonicotinoids.htm>>.

SECOND-GENERATION ANTICOAGULANT RODENTICIDES (SGARs) - 71 Products

Basis and Scope: Second-generation anticoagulant rodenticide (SGAR) products contain the active ingredients brodifacoum, bromadiolone, difenacoum, and difethialone. DPR conducted a preliminary investigation of unpublished wildlife incident data and mortality data and public literature submitted by CDFW and other sources on anticoagulant rodenticides and prepared a report on its findings.

DPR's preliminary investigation determined that while the 2014 regulations changed SGAR use patterns by restricting their purchase, sale, and use, reported rates of non-target wildlife exposure to SGARs have not decreased. Additionally, the investigation found evidence of possible population-level impacts among non-target wildlife in California due to statistically significant associations with SGAR exposure and sublethal impacts. The investigation indicates that non-target wildlife exposure may be significant due to the chemical characteristics of SGARs, which are known to have properties of high toxicity, persistence, and bioaccumulation. The investigation also notes that brodifacoum has relatively higher rates of exposure among non-target wildlife as compared to other SGARs.

Based on the preliminary investigation, the Director of DPR found that a significant adverse impact has occurred or is likely to occur from the use of SGARs and proposed to begin reevaluation. On November 16, 2018, DPR issued its proposed decision to begin reevaluation for SGAR products containing the active ingredients brodifacoum, bromadiolone, difenacoum, and difethialone. The comment period closed on January 16, 2019. DPR presented the proposed decision to begin reevaluation of SGARs to the PREC in January 2019 and to the Agricultural Pest Control Advisory Committee in March 2019.

On March 12, 2019, DPR issued its final decision to begin reevaluation for SGAR products containing the active ingredients brodifacoum, bromadiolone, difenacoum, and difethialone. The notice of final decision included a summary of the 17,234 comments received and provided response to relevant comments.

Data Requirements: Under this reevaluation, DPR required registrants of pesticide products containing the active ingredients brodifacoum, bromadiolone, difenacoum, and difethialone to (1) submit compliance proposals by May 13, 2019, and (2) submit existing data related to non-target wildlife exposure by June 12, 2019.

Registrants of SGAR products containing brodifacoum, bromadiolone, and difethialone have submitted required compliance proposals and existing non-target wildlife exposure data. The information received is currently under review, and DPR will use the information to develop additional data requirements for SGAR products subject to reevaluation.

Mitigation Efforts and Status: In place of submitting compliance proposals and data, registrants submitted voluntary cancellations for the three difenacoum products. As of May 2019, DPR no longer has any difenacoum products registered for use in California.

In July and December 2019, DPR met with rodenticide stakeholders to discuss non-regulatory mitigation and on-going scientific studies on SGARs. In December 2019, a registrant voluntarily submitted the protocols for a recommended study for DPR's review and consideration. DPR will continue to work with stakeholders to facilitate discussions of possible mitigation strategies and to incorporate evaluation of current public literature into the SGAR reevaluation.

For more information on the reevaluation for SGARs, please visit DPR's Reevaluation Web page at: <<http://www.cdpr.ca.gov/docs/registration/reevaluation/chemicals/sgars.htm>>.

PRELIMINARY INVESTIGATIONS (EVALUATIONS)

DPR conducts preliminary investigations of products (and active ingredients) for which the Department, or other State or county agencies, have identified possible hazards. As a result of evaluation, the investigation may lead to formal reevaluation. No preliminary investigations are underway at this time.

For more information on this semiannual report or a reevaluation, please visit DPR's Reevaluation Program Web page at <<https://www.cdpr.ca.gov/docs/registration/reevaluation/reevals.htm>> or contact either Ms. Denise Alder, Senior Environmental Scientist (Specialist), at <Denise.Alder@cdpr.ca.gov> or 916-324-3522 or Ms. Brittanie Clendenin, Environmental Scientist, at <Brittanie.Clendenin@cdpr.ca.gov> or 916-324-3896.

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March 2, 2020

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