

Best Practices Subcommittee Final Meeting

This file presents the recommendations prepared and voted on by the MCTF Best Practices Subcommittee and the voting results:

- **BP-1: Improving Consistency in the Implementation of Integrated Pest Management**
- **BP-2: Limiting Ground-Based Applications of Adulticides**
- **BP-3: State-Wide Mosquito Surveillance**
- **BP-4: Improving Consistency in MCD Staffing**
- **BP-5: Statewide Education on Mosquito Management**
- **BP-6: Prohibit Aerial Applications of Adulticides**
- **BP-7: Online Reporting for Commercial Applicators**
- **BP-8: Communication with Public Water Systems**
- **BP-9: QA/QC Testing of Chemicals Used in Mosquito Control**
- **BP-10: Protection of Receptor Areas from Pesticide Run-Off**
- **BP-11: Reduce Pesticide Applications for Nuisance Control**
- **BP-12: Monitoring and Evaluations After Spraying**
- **BP-13: Research the Impacts of Pesticides on Vulnerable Populations**
- **BP-14: Criteria for Declaring a Public Health Hazard**
- **BP-15: Agriculture Opt-Out**
- **BP-16: Protected Status of Certified Organic Farms**
- **BP-17: Enhancing and Updating Wetlands Management within Integrated Pest Management**

1 **Directive:** (i) *Facilitating the use of integrated pest management*

2 **Recommendation BP-1: Improving Consistency in the Implementation of Integrated Pest Management**

3 Background

4 Integrated Pest Management (IPM) is defined in the Massachusetts Pesticide Control Act (Chapter 132b)
5 as “a comprehensive strategy of pest control whose major objective is to achieve desired levels of pest
6 control in an environmentally responsible manner by combining multiple pest control measures to
7 reduce the need for reliance on chemical pesticides; more specifically, a combination of pest controls
8 which addresses conditions that support pests and may include, but is not limited to, the use of
9 monitoring techniques to determine immediate and ongoing need for pest control, increased sanitation,
10 physical barrier methods, the use of natural pest enemies and a judicious use of lowest risk pesticides
11 when necessary.” Although the principles of IPM underlie the practice of mosquito control in
12 Massachusetts, there is a) a lack of consistency in the implementation of IPM across the state and b) no
13 statewide system for documenting mosquito control actions and associated results. Inconsistent
14 application of IPM and lack of efficacy information for IPM components may result in an increase in the
15 amount of pesticide released into the environment without a commensurate benefit in the reduction of
16 mosquitoes or of mosquito-borne diseases.

17 Recommendation

18 The implementation of IPM should follow the science-based guidelines and protocols established in a
19 new statewide Mosquito Management Plan to promote more consistent use of all components of IPM
20 across the state. The Board overseeing mosquito control in the Commonwealth of Massachusetts should
21 direct the preparation of the Plan. The Plan should provide operational guidance and best practices for
22 state agencies and MCDs including a) implementation guidance on each IPM component; b) rationale
23 and thresholds for each IPM component; c) guidance for flexibility in implementing IPM; d) a summary
24 of actions taken, lessons learned, and program data analysis since the prior report; e) evaluation of
25 effectiveness and non-target impacts (i.e. human health and ecological impacts) of each IPM component
26 as deemed appropriate and practical by the Board; and f) a summary of new developments in all aspects
27 of IPM for mosquito control using best available information and new data. Additionally:

- 28
- 29 • As defined in Chapter 132b, the Plan should involve a combination of “multiple pest control
30 measures to reduce the need for reliance on chemical pesticides.” In other words, activities
31 including but not limited to surveillance, public outreach and education, and source reduction,
32 when applicable, should be prioritized over the usage of chemical pesticides.
 - 33 • The existing MDPH MA Arbovirus Surveillance and Response Plan and the MDAR MA Operations
34 Response Plan for Mosquito-Borne Illness would be incorporated into the Plan.
 - 35 • The Plan should include flexibility in mosquito control responses tailored to differences such as
36 in geography, habitats, disease risk levels, season and weather conditions, mosquito species and
37 abundance, and density of residences.
 - 38 • Updates should consider input from the public as well as the involvement of stakeholders. All
39 components of the Plan should be updated at a minimum of once every [three years].
40 Stakeholders should convene annually to determine whether individual components need to be
updated more frequently.

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- 41 • Establish communication with Beekeepers via the State Apiary Inspector, Mass Bee and Local
42 County Bee Clubs so beekeepers can incorporate best management practices to protect their
43 hives with at least 48 hours' notice in event of spraying.

44 Voting Results

- 45 • Seven subcommittee members supported this recommendation.
46 • Two subcommittee members did not support this recommendation. The reasons for the dissenting
47 opinions were:
- 48 • One supported everything about this recommendation other than the last bullet point about
49 establishing communication with beekeepers. Since the last bullet point was added last minute,
50 the subcommittee member hadn't had time to think about how it might be accomplished.
 - 51 • One felt that this would entail micromanaging the MCDs and unnecessarily prescribing action
52 thresholds. The results might be a program that would withhold efforts that might otherwise
53 provide benefits, or trigger responses that experts might consider unjustified.

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1 **Directive:** *(i) Facilitating the use of integrated pest management*

2 **Recommendation BP-2: Limiting Ground-Based Applications of Adulticides**

3 Background

4 Not developed.

5 Recommendation

6 MCDs should conduct ground-based adulticiding applications only when alternative methods (e.g.,
7 source reduction, water management, or larviciding) are not feasible or have been insufficiently
8 effective, and when clear thresholds for spraying are met. These thresholds should be determined by
9 consideration of mosquito surveillance data that demonstrate elevated disease risk or the aggregation
10 of significant number of complaints. Thresholds may be tailored based on factors such as geography,
11 habitat, season, weather conditions, mosquito species and abundance, and density of nearby
12 residences.

13 Voting Results

- 14 • Six subcommittee members supported this recommendation.
15 • Three subcommittee members did not support this recommendation. The reasons for the dissenting
16 opinions were:
17 • One felt like this wasn't different from the status quo given that it included the aggregation of
18 complaints.

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1 **Directive:** *(i) Facilitating the use of integrated pest management*

2 **Recommendation BP-3: State-Wide Mosquito Surveillance**

3 Background

4 Monitoring of mosquitoes and surveillance of agents of mosquito-borne disease are essential
5 components of mosquito management in the Commonwealth of Massachusetts. The accumulated data
6 and analyses of trends can inform decisions as to the manner of any intervention and public educational
7 messaging. Current monitoring efforts are performed mainly by personnel from Mosquito Control
8 Districts (MCDs), and such activities are primarily limited to communities that support their regional
9 MCD. Therefore, there has historically been limited data available from communities that are not part of
10 MCDs, which limits evidence-based risk assessment and decision-making in those areas resulting in an
11 incomplete understanding of mosquito species distribution, populations, and disease risk at the state
12 level necessary for a comprehensive statewide control strategy.

13 Recommendation

14 The legislature is encouraged to authorize and fund an enhanced monitoring network to include areas of
15 the Commonwealth that are not currently served by a regional MCD. The goals would be to increase the
16 spatial coverage of monitoring mosquitoes that are particularly relevant as vectors of disease agents,
17 and to perform surveillance for those vector-borne agents. Surveillance will be guided by a protocol that
18 includes standards for implementation and analysis. Areas to be monitored should be selected on
19 ecological and epidemiological bases rather than on political boundaries. A state-wide agency should be
20 responsible for overseeing this program to ensure procedural and analytical consistency. Said agency
21 can partner with qualified entities as appropriate.

22 Voting Results

- 23 • Eight subcommittee members supported this recommendation.
24 • One subcommittee member abstained.

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1 **Directive:** *(i) Facilitating the use of integrated pest management*

2 **Recommendation BP-4: Improving Consistency in MCD Staffing**

3 Background

4 Newer and/or smaller MCDs may not have available entomological and wetland biology/permit
5 specialist expertise. Objective data may thereby be lacking to inform decisions in those areas.

6 Recommendation

7 Each MCD should employ or consult with an entomologist to identify mosquitoes, and a wetland
8 biologist/permit specialist to evaluate/oversee habitat modification efforts.

9 Voting Results

- 10 • Seven subcommittee members supported this recommendation.
- 11 • One subcommittee member did not support this recommendation. The reason for the dissenting
12 opinion was:
- 13 • The subcommittee member had budget concerns for individual MCDs being able to afford this.
14 Consulting was fine, but sometimes that wasn't an option for payment. Perhaps if the policy
15 structure SC changed the funding structure this would be feasible.
- 16 • One subcommittee member abstained.

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1 **Directive:** *(i) Facilitating the use of integrated pest management*

2 **Recommendation BP-5: Statewide Education on Mosquito Management**

3 Background

4 Educational outreach regarding mosquito management is currently fragmented and uncoordinated in
5 the Commonwealth. Further, no MCD has access to the platform that is available to state officials to get
6 out a consistent and repeated message of wide concern.

7 Recommendation

8 A state agency should be principally responsible for statewide education on mosquito management.

9 Voting Results

10 • Nine subcommittee members supported this recommendation.

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1 **Directive:** (i) *Facilitating the use of integrated pest management*

2 **Recommendation BP-6: Prohibit Aerial Applications of Adulticides**

3 Background

4 There is a lack of proven efficacy of aerial adulticiding in preventing human disease. At the same time,
5 there is likely harm to human and ecological health due to spraying.

6 Recommendation

7 The aerial application of adulticides should be prohibited.

8 Voting Results

- 9 • **Five subcommittee members did not support this recommendation.**
- 10 • Four subcommittee members supported this recommendation. The reasons for the dissenting
11 opinions were:
- 12 • One subcommittee member didn't see the efficacy in aerial spraying that's done at the typical
13 scale.
- 14 • One subcommittee member didn't feel like there were adequate safeguards for humans and
15 ecological nontarget species.
- 16 • The last subcommittee member wanted to echo the previous statement and felt like the state
17 would be better off spending time and energy educating the public than engaging in aerial
18 spraying.

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1 **Directive:** *(vi) Developing procedures to protect human and ecological health and minimize non-target*
2 *impacts of mosquito pesticides, including, but not limited to, effects on persons with respiratory or*
3 *immune system illnesses, drinking water supplies, pollinators and aquatic life*

4 **Recommendation BP-7: Online Reporting for Commercial Applicators**

5 Background

6 There is a lack of understanding of the scale of commercial pesticide applications for mosquito control;
7 moreover, commercial pesticide applicators working in the private sector in Massachusetts have to
8 submit annual use reports via paper mail. Having more ready access to this information through an
9 online system, in addition to including locational information, will allow state agencies to assess private
10 mosquito control measures in conjunction with state control measures for a more complete
11 understanding of annual statewide mosquito control measures.

12 Recommendation

13 Develop an online reporting system for mosquito control-related pesticide application records from
14 commercial applicators working in the private sector. This system will replace the current paper-based
15 reporting and will expand the current reporting requirements to identify the location of the application.
16 The information reported to this online system should include product name, EPA registration number,
17 application method, location of application by town, and total amount of product applied, as well as
18 identify the application target as for mosquito control. Reporting will be required at least annually.
19 Funding should be allocated for developing and maintaining this system.

20 Voting Results

- 21
 - Nine subcommittee members supported this recommendation.

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4 **Recommendation BP-8: Communication with Public Water Systems**

5 Background

6 Currently there is insufficient communication with public water systems about aerial spraying events.
7 This means that public water systems may not be able to adequately prepare for the impacts of these
8 events.

9 Recommendation

10 Develop an electronic GIS-based system where pesticide applicators communicate spray application
11 plans for aerial and MCD truck-based spray applications. Mass DEP will assist in this endeavor to ensure
12 the MCD and aerial spray applicators can easily view the location of surface water supplies as well as the
13 500-foot aerial application and 300-foot truck-spray buffer zones on all statewide mapping while still
14 maintaining the security of PWS source locations. Additionally, Mass DEP shall also develop and
15 implement a training program. The main training program goals are to help PWSs 1) understand the
16 stakeholders involved and the protective methods employed during applications, 2) comprehend spray
17 event sampling protocols, 3) communicate “no spray zones” or voice questions to local MCDs, and 4)
18 review local aerial and MCD truck-based spray application information. MassDEP can furthermore assist
19 PWSs by providing sample language and response actions for inclusion in Emergency Response Plans.

20 Voting Results

- 21 • Eight subcommittee members supported this recommendation.
22 • One subcommittee member did not support this recommendation. The reason for the dissenting
23 opinion was:
24 • One subcommittee member felt like it would be easier for public water supplies to provide
25 MCDs with information and cut out the middleman entirely, then the MCDs could just exclude
26 those areas.

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3 *immune system illnesses, drinking water supplies, pollinators and aquatic life*

4 **Recommendation BP-9: QA/QC Testing of Chemicals Used in Mosquito Control**

5 Background

6 Not developed.

7 Recommendation

8 The Board shall develop a quality assurance/quality control chemical management program that
9 implements systematic review and verification of bulk chemical purchases used in aerial and MCD-based
10 truck applications. The protocols shall focus on reviewing manufacturer and/or independent laboratory
11 analysis data and plans that highlight the parties and their associated role in manufacture, packaging,
12 storage, and transport. This review shall be conducted during the procurement process and prior to a
13 delivery. Secondly, the program shall detail protocols and safeguards for quick, pragmatic tests adopted
14 for chemical delivery acceptance and pre-application. In cases of bulk purchases, used for widespread
15 use by many MCDs or the state, the protocols can allow for lot-based testing where a subset of
16 containers from the same source are tested. Thirdly, the program shall also highlight delivery rejection
17 procedures in cases of chemical quality issues, and inability to meet requirements stated in delivery
18 acceptance tests, the purchase specification, or any issue associated with residual or apparent
19 contamination.

20 Voting Results

- 21 • Five subcommittee members supported this recommendation.
22 • Three subcommittee members did not support this recommendation. The reasons for the dissenting
23 opinions were:
24 • One subcommittee member felt that as drafted, the program is not sufficiently justified and the
25 process would be cumbersome, expensive, and impractical.
26 • One subcommittee member abstained.

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1 **Directive:** *(vi) Developing procedures to protect human and ecological health and minimize non-target*
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3 *immune system illnesses, drinking water supplies, pollinators and aquatic life*

4 **Recommendation BP-10: Protection of Receptor Areas from Pesticide Run-Off**

5 Background

6 Not developed.

7 Recommendation

8 The Legislature shall fund and the Board shall implement additional research to investigate potential
9 impacts from mosquito-related pesticide run-off on private well sources, wetlands, Public Water System
10 groundwater source supplies, apiaries, fisheries, streams, farms, recreational water bodies, or any other
11 sensitive receptor as defined by the Board. Research studies shall include, at a minimum, studies on
12 both larvicides and adulticides as well as testing of alternative pesticides and/or formulations with the
13 purpose of identifying if alternative-method applications are needed in certain receptor areas or if
14 application restrictions are recommended. Following research studies, the implementing researcher
15 shall present scientific findings to the Board.

16 Voting Results

- 17 • Five subcommittee members supported this recommendation.
18 • Three subcommittee members did not support this recommendation. The reasons for the dissenting
19 opinions were:
20 • One subcommittee member felt like the recommendation had gotten muddled. The inclusion of
21 honeybees didn't make sense in terms of runoff; the initial discussion started with drinking
22 water, and the current recommendation didn't seem to capture what the group was trying to
23 accomplish with it.
24 • Another subcommittee member saw this as a research endeavor and saw that it seemed to be
25 seeking a problem that didn't exist.
26 • One subcommittee member abstained.

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4 **Recommendation BP-11: Reduce Pesticide Applications for Nuisance Control**

5 Background

6 Not developed.

7 Recommendation

8 In consultation with MCDs, consider ways to reduce or restrict the number of individual requests for
9 nuisance controls.

10 Voting Results

- 11 • ***Five subcommittee members did not support this recommendation.***
- 12 • Three subcommittee members supported this recommendation. The reasons for the dissenting
13 opinion were:
- 14 • One subcommittee member hoped that this would get addressed through the larger overhaul of
15 the program but didn't think that there should be spraying on-demand, either by the state or by
16 commercial applicators.
- 17 • Another member echoed the comment about no spraying on demand for nuisance requests.

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3 *immune system illnesses, drinking water supplies, pollinators and aquatic life*

4 **Recommendation BP-12: Monitoring and Evaluations After Spraying**

5 Background

6 Currently, MA has limited ecological monitoring in place following aerial adulticide spraying events and
7 does not have a monitoring plan in place to assess the impacts of vehicle adulticide spray events.
8 According to the MA DPH, Arbovirus Surveillance and Response Plan¹, monitoring prior and post aerial
9 adulticide spraying includes:

- 10 • Pre and post monitoring of public drinking water supplies and surface areas in the spray area
11 (such as what was conducted in 2019)²,
- 12 • DEP and MDAR conduct pre and post monitoring of honey bees
- 13 • All agencies collaborate (DEP, MDAR, DFW, and DPH) in trying to development environmental
14 monitoring plans. For example, following an aerial spray event in 2006, the MA DEP conducted
15 water sampling, macroinvertebrate surveys, and insect field collections to determine the impact
16 of insecticide spraying on non-target species³. To our knowledge, there is not record of similar
17 studies conducted after other aerial spray events, even after the multiple events in 2019.
- 18 • Aerial spraying of insecticides is covered under EPA's National Pollutant Discharge and
19 Elimination System (NPDES) and therefore the SRB must submit a notice of intent prior to spray
20 events that will include application of bodies of water. If the application area includes Priority
21 Habitat Areas for endangered species, then the SRB must request a permit from the Department
22 of Fish and Wildlife.

23 Although there is limited ecological monitoring in MA following vehicle based adulticide spraying, there
24 is evidence of ecological impacts elsewhere (e.g., Philips et al., 2014⁴). To determine if adulticide spray
25 events in MA are causing impacts to non-target receptors, the state should design an ecological
26 monitoring program that will reveal when impacts are occurring. This information can guide best
27 practices to minimize these impacts. However, designing an effective monitoring program requires
28 knowledge of which non-target receptors may be at greatest risk for adverse effects. Performing pilot
29 monitoring projects is recommended to inform the creation of a new monitoring program.

30 References

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- 34 2. MassDEP, 2020, Response to Eastern Equine Encephalitis Virus Mosquito Control Aerial Spray Events 2019: A
35 Summary of the Surface Water Quality Sampling Operations. Available at, [https://www.mass.gov/doc/response-](https://www.mass.gov/doc/response-to-eastern-equine-encephalitis-virus-mosquito-control-aerial-spray-events-2019/download)
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- 37 3. MA State Reclamation and Mosquito Control Board, 2010. Final Report: Aerial adulticiding intervention to
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42 Tjeerdema, R.S., 2014. Monitoring the aquatic toxicity of mosquito vector control spray pesticides to freshwater
43 receiving waters. *Integrated environmental assessment and management*, 10(3), pp.449-455.

44 Recommendation

45 To determine if adulticide spray events are causing impacts to non-target receptors, the state should
46 design an ecological monitoring program:

- 47 1. Charge the appropriate state agencies to design an effective ecological monitoring plan to
48 assess impacts to non-target receptors following aerial and truck-based adulticide spray events.
49 This monitoring plan will detail which types of biological and chemical surveys should be
50 conducted, when these surveys should occur, and their frequency. Agencies and departments
51 involved in mosquito control (DPH, Mosquito control districts) should be involved or consulted
52 during plan development to ensure consideration of logistics and practicalities of adulticide
53 spray events (e.g., limited notice of spray events, unanticipated changes made to spray plans).
 - 54 2. To best inform the design of the ecological monitoring plan, state agencies should conduct pilot
55 research projects to determine vulnerable receptors and the environmental compartments
56 where adulticides are applied and/or accumulating. Pilot projects could include experiments
57 before and after adulticide spray events and should take into account that some areas receive
58 multiple adulticide applications over the course of the mosquito season. Pilot projects should
59 consider both chemical monitoring of appropriate media (water, soil, sediments) and hive
60 products, macroinvertebrate surveys in impacted water bodies, insect field collections, and
61 surveys of pollinators and honeybees.
- 62 Funding and personnel resources should be allocated for pilot research projects and for the design and
63 on-going implementation of the monitoring plan.

64 Voting Results

- 65 • Nine subcommittee members supported this recommendation.

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2 *impacts of mosquito pesticides, including, but not limited to, effects on persons with respiratory or*
3 *immune system illnesses, drinking water supplies, pollinators and aquatic life*

4 **Recommendation BP-13: Research the Impacts of Pesticides on Vulnerable Populations**

5 Background

6 Not developed.

7 Recommendation

8 Fund research into the impacts of pesticide applications for mosquito control on vulnerable populations
9 (e.g., persons with respiratory or immune system illnesses, persons with multiple chemical sensitivities).
10 Findings from the research should inform the future development of procedures to protect human
11 health.

12 Voting Results

- 13 • Eight subcommittee members supported this recommendation.
14 • One subcommittee member did not support this recommendation. The reason for the dissenting
15 opinion was:
16 • One subcommittee member felt that this recommendation was based on highly controversial
17 and fatally flawed assumptions.

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2 *impacts of mosquito pesticides, including, but not limited to, effects on persons with respiratory or*
3 *immune system illnesses, drinking water supplies, pollinators and aquatic life*

4 **Recommendation BP-14: Criteria for Declaring a Public Health Hazard**

5 Background

6 Not developed.

7 Recommendation

8 The declaration of a public health hazard related to mosquito-borne disease should be based on
9 published and research-based criteria. To promote transparency, relevant participants (e.g. DPH, SRB,
10 MCDs, and/or local health agencies) should document their decision-making process in the Mosquito
11 Management Plan on an annual basis regardless of whether a public health hazard is declared.

12 Voting Results

- 13 • Eight subcommittee members supported this recommendation.
14 • One subcommittee member did not support this recommendation.
15 • One subcommittee member felt that this currently exists within the DPH Arbovirus plan so he
16 didn't think this would change much at all.

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1 **Directive:** *(iv) Protecting organic agriculture from pesticide use*

2 **Recommendation BP-15: Agriculture Opt-Out**

3 Background

4 Not developed.

5 Recommendation

- 6 1. The current opt-out from aerial spraying that is offered to any farm that is USDA certified
7 organic should also be offered to any farm that is 2 acres or more in size and produces food for
8 sale or donation and uses generally recognized organic practices AND any farm that produces
9 for sale or donation honey, pollen, live bees, or other products derived from bees
10 2. The procedure for opting out of aerial spraying shall be that outlined in 333 CMR 13.03.

11 Voting Results

- 12 • Five subcommittee members supported this recommendation.
13 • Four subcommittee members did not support this recommendation.
14 • One subcommittee member felt that this recommendation placed the fiscal health of farmers
15 ahead of public health considerations.
16 • Another felt that this would jeopardize the certified organic operations and would not be
17 implementable.

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1 **Directive:** *(iv) Protecting organic agriculture from pesticide use*

2 **Recommendation BP-16: Protected Status of Certified Organic Farms**

3 Background

4 Currently, the protection from aerial spraying afforded to certified farms is a DPH policy, but not a law,
5 and as such is revocable by executive action. Should the legislature deem it necessary to reverse that
6 protection for a specific arbovirus outbreak, they could vote to do so.

7 Recommendation

8 Codify the protection from aerial spray for certified organic farms in legislation, not just in policy.

9 Voting Results

- 10 • Seven subcommittee members supported this recommendation.
11 • Two subcommittee members did not support this recommendation.
12 • Both felt that this recommendation was separate from mosquito management decisions.

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1 **Directive:** *(i) Facilitating the use of integrated pest management*

2 **Recommendation BP-17: Enhancing and Updating Wetlands Management within Integrated Pest**
3 **Management**

4 Background

5 Not developed.

6 Recommendation

7 The updated Mosquito Management program should include an enhanced emphasis on advancement of
8 ecologically based wetlands and waterways restoration practices for source reduction, as a key element
9 of IPM under the new statewide Mosquito Management Plan.

- 10 • The new program structure should facilitate increased cooperation and collaboration among
11 mosquito control districts, the Division of Ecological Restoration, other government agencies,
12 nonprofit organizations, wetland scientists, and municipalities to integrate coastal and inland
13 restoration and stewardship with mosquito management.
- 14 • Innovative techniques for managing salt marshes and for restoring inland wetlands and fisheries
15 should be integrated into updated best practices for mosquito management as specified in the
16 Mosquito Management Plan.

17 Voting Results

- 18 • Seven subcommittee members supported this recommendation.
19 • One subcommittee member did not support this recommendation.
20 • One subcommittee member abstained.