

#### Attachment 4. Managed Pollinator Protection Plan Comparison

Plan Feature/State	California-Citrus	California-avocado	Colorado	Florida-citrus	Mississippi	North Dakota
<b>Sponsoring organization(s)</b>	California Department of Pesticide Regulation	California Department of Pesticide Regulation	Colorado Department of Agriculture	Florida Department of Agriculture and Consumer Services	Mississippi Department of Agriculture and Commerce; Mississippi Farm Bureau	North Dakota Department of Agriculture
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<b>Stakeholder engagement process</b>	stakeholder meetings for avocado	Public rule making process for citrus	Stakeholder meetings	Three public meetings publicized through crop associations and bee keeping associations; emails to registered bee keepers	Multiple meetings of stakeholders; publicized through Mississippi Farm Bureau	Two meetings of stakeholders; publicized through crop associations and bee keeping associations
<b>Public notice/public participation process</b>	Public notice for rule adoption - 3 CCR Sections 6650 -6656.	Publication of results of stakeholder meetings ; press releases on plan development and implementation	Publication of results of stakeholder meetings; press releases on plan development and implementation	Publication of meeting information through media; press releases on plan development and implementation	Publication of meeting information through media; press releases on plan development and implementation	Publication of meeting information through media; press releases on plan development and implementation
<b>Recommendation for notification of hive location</b>	Requirement for notification of colony locations to County Ag Commissioner in citrus/bee protection areas	Bee keepers must register with the county. Bee keeper's contact information must be provided to the property owners/operators where hives are situated.	Recommendation for communication of hive locations – voluntary registration on DriftWatch site.	Recommendation for 48 hour notification using voluntary apiary location registration system provided by FDACS	Beekeeper should have a placard listed on a prominent hive that clearly identifies the owner of the hives and emergency contact information. Use Bee Aware Flag	Apiary location registration required; recommendations for notification of farmers. Recommendations to notify landowners and applicators when arriving and when moving hives.

<b>Recommendation for notification of pesticide application</b>	Requirement for 48 hour notification in rule to registered hive location	Recommendation for 120 hour notification of registered colonies; posting of colonies not on growers property within one mile of application 120 hours prior to application	Communicate with beekeepers near sites that require pesticide application. Use DriftWatch to help identify hive locations .	Notification through provision of information and through department voluntary apiary location registration	Mississippi Honey Bee Stewardship Program uses a unified flagging system to clearly identifyhive locations that are near adjacent fields (Bee Aware Flag)	Recommendation that pesticide applicators identify and notify beekeepers within two miles of a site to be treated at least 48 hours prior to application or as soon as possible.
<b>Recommendation to timing of application/selection of pesticides</b>	Establishment of pesticides that are “toxic to bees” by CDPR; rule requirements for notification prior to application; restrictions during bloom period	Plan applies to abamectin; application as close to dawn as practical	Use IPM and select pesticides with low residual toxicity levels ( RT <sub>25</sub> ); information provided on options	Follow <a href="#">Citrus Insecticide Label Language Interpretive Guidance</a>	Recommendation to consider applying insecticides as late in the afternoon as possible on fields that are immediately adjacent to hive locations, use IPM, applications should only be made when winds are blowing away from the hive location(s).	Use IPM. When possible, apply pesticides early morning or in the evening, when the temperature is under 55 degrees Fahrenheit, early in the morning or in the evening when bees are less active to reduce the chances that bees will be foraging in or near the treatment site. Avoid drift.
<b>Guidance on determination of bloom condition</b>	Establishment of bloom condition by County Agriculture Commissioners; public notice of bloom period	Growers must suppress flowering weeds before applications are made	Covers multiple crops, no specific recommendations	Published UF/IFAS document Determining Percent Bloom in Citrus based on CitrusFlowering Monitor ( <a href="http://disc.ifas.ufl.edu/bloom/">http://disc.ifas.ufl.edu/bloom/</a> ).	Covers multiple crops, no specific recommendations	Covers multiple crops, no specific recommendations
<b>On-line system for notifications</b>	Not available	Not available	Use DriftWatch site <a href="https://co.driftwatch.org/map">https://co.driftwatch.org/map</a>	Citrus Industry Link Mapping Service ( <a href="http://www.freshfromflorida.com/Divisions-Offices/Plant-Industry/Agriculture-Industry/Apiary-">http://www.freshfromflorida.com/Divisions-Offices/Plant-Industry/Agriculture-Industry/Apiary-</a>	Not available	The NDDA has created an interactive searchable map where pesticide applicators can identify registered

				<a href="#">Inspection/Florida-Apiary-Citrus-Industry-Link-Mapping-Service</a>		bee yards and other pesticide-sensitive sites. The GIS Map for Applicators also contains beekeeper contact information and can be found on the NDDA homepage ( <a href="http://www.nd.gov/ndda/">http://www.nd.gov/ndda/</a> ).
Website	<a href="http://www.cdpr.ca.gov/docs/legbills/calcode/030203.htm">http://www.cdpr.ca.gov/docs/legbills/calcode/030203.htm</a>		<a href="http://www.cepep.colostate.edu/Pollinator%20Protection/index.html">http://www.cepep.colostate.edu/Pollinator%20Protection/index.html</a>	<a href="http://www.freshfromflorida.com/Consumer-Resources/Florida-Bee-Protection">http://www.freshfromflorida.com/Consumer-Resources/Florida-Bee-Protection</a>	<a href="http://www.mdac.ms.gov/wp-content/uploads/bpi_bee_brochure.pdf">http://www.mdac.ms.gov/wp-content/uploads/bpi_bee_brochure.pdf</a>	<a href="http://www.nd.gov/ndda/files/resource/NorthDakotaPollinatorPlan2014.pdf">http://www.nd.gov/ndda/files/resource/NorthDakotaPollinatorPlan2014.pdf</a>