

This table lists ways that producers, agro-industry, and government agencies can adapt to climate change. Each *adaptation* is an adjustment to mediate climate impacts of changing temperature, water availability, pests, and/or pollinators.

DIRECTIONS

1. In the actor column, write which actor or actors are responsible for each adaptation: producers, agro-industry, and/or government. More than one actor may be responsible; if so, write the names of two actors or "all" if all three actors are responsible.
2. Using the colors in the key below, highlight each adaptation to indicate the impact that it is mediating. Adaptations may help to address more than one impact; if so, highlight the adaptation with more than one color.

ACTORS

Producer: the person, or group of people that operate a farm

Agro-Industry: business connected with agriculture; involves researching technologies and disseminating information to producers

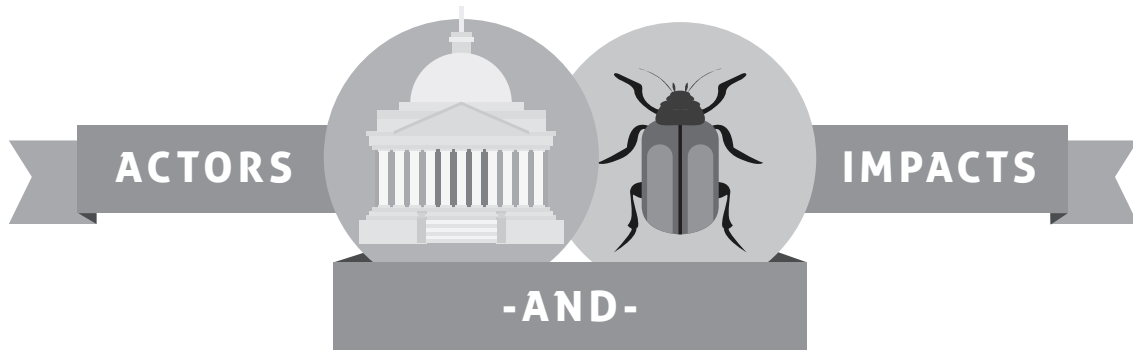
Government: agencies responsible for the creation and implementation of programs and policies to support producers and the agro-industry

| YELLOW TEMPERATURE | GREEN PESTS | BLUE WATER | PINK POLLINATORS |
|--|----------------|--|---------------------|
| ACTOR Write Producer, Agro-Industry, or Government | | IMPACT Highlight each <i>adaptation</i> to indicate the impact that it is mediating | |
| EXAMPLE 1. <i>Agro-Industry</i> | | Develop pest suppression technologies (<i>Green</i>) | |
| 2. | | Switch to an established heat-tolerant or low-chill tolerant plant variety | |
| 3. | | Develop pest insurance programs for producers | |
| 4. | | Alter planting and harvesting schedules | |
| 5. | | Study the use of solar panels as shade structures over crops | |

CONTINUE →

| YELLOW TEMPERATURE | GREEN PESTS | BLUE WATER | PINK POLLINATORS |
|--|----------------|--|---------------------|
| ACTOR Write Producer, Agro-Industry, or Government | | IMPACT Highlight each <i>adaptation</i> to indicate the impact that it is mediating | |
| 6. | | Develop technologies for efficient irrigation systems and excess water management systems | |
| 7. | | City and county agencies restore habitat for native pollinators (e.g. adjusting roadside maintenance to include locally-appropriate options for vegetated roadsides) | |
| 8. | | Provide technical assistance for risk management | |
| 9. | | Provide cooling, such as shade structures or intercropping, to sensitive crops | |
| 10. | | Choose appropriate flood tolerant or drought-resistant crops | |
| 11. | | Implement an integrated pest management plan | |
| 12. | | Study intercropping to reduce heat stress | |
| 13. | | Develop pest resistant crop varieties | |
| 14. | | Provide nesting sites for native pollinators | |
| 15. | | Develop technologies of drought resistant and flood tolerant crop varieties | |
| 16. | | Identify and register new and safe products or biocontrol methods to deal with Varroa mites, which attack honeybees | |
| 17. | | Stay updated on emerging pests of concern | |
| 18. | | Modify land management policies and programs to improve resilience to climate change | |
| 19. | | Attract native pollinators and other beneficials with hedgerows, flower strips, and polyculture | |
| 20. | | Study nutritional needs of honeybees, methods of supplying nutrition, and pesticide impact on honeybee health (e.g. hedgerows, flower strips) | |

ANSWER KEY



This table lists ways that producers, agro-industry, and government agencies can adapt to climate change. Each *adaptation* is an adjustment to mediate climate impacts of changing temperature, water availability, pests, and/or pollinators.

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| ACTOR Write Producer, Agro-Industry, or Government | | IMPACT Highlight each <i>adaptation</i> to indicate the impact that it is mediating | |
| EXAMPLE 1. <i>Agro-Industry</i> | | Develop pest suppression technologies (<i>Green</i>) | |
| 2. <i>Producer</i> | | Switch to an established heat-tolerant or low-chill tolerant plant variety (<i>Yellow</i>) | |
| 3. <i>Government</i> | | Develop pest insurance programs for producers (<i>Green</i>) | |
| 4. <i>Producer</i> | | Alter planting and harvesting schedules (<i>Yellow/Blue</i>) | |
| 5. <i>Agro-Industry</i> | | Study the use of solar panels as shade structures over crops (<i>Yellow</i>) | |

CONTINUE →

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|--|----------------|--|---------------------|
| ACTOR Write Producer, Agro-Industry, or Government | | IMPACT Highlight each <i>adaptation</i> to indicate the impact that it is mediating | |
| 6. <i>Agro-Industry</i> | | Develop technologies for efficient irrigation systems and excess water management systems (<i>Blue</i>) | |
| 7. <i>Government</i> | | City and county agencies restore habitat for native pollinators (e.g. adjusting roadside maintenance to include locally-appropriate options for vegetated roadsides) (<i>Pink</i>) | |
| 8. <i>Government</i> | | Provide technical assistance for risk management (<i>All</i>) | |
| 9. <i>Producer</i> | | Provide cooling, such as shade structures or intercropping, to sensitive crops (<i>Yellow</i>) | |
| 10. <i>Producer</i> | | Choose appropriate flood tolerant or drought-resistant crops (<i>Blue</i>) | |
| 11. <i>Producer</i> | | Implement an integrated pest management plan (<i>Green</i>) | |
| 12. <i>Agro-Industry</i> | | Study intercropping to reduce heat stress (<i>Yellow</i>) | |
| 13. <i>Agro-Industry</i> | | Develop pest resistant crop varieties (<i>Green</i>) | |
| 14. <i>Producer</i> | | Provide nesting sites for native pollinators (<i>Pink</i>) | |
| 15. <i>Agro-Industry</i> | | Develop technologies of drought resistant and flood tolerant crop varieties (<i>Blue</i>) | |
| 16. <i>Agro-Industry</i> | | Identify and register new and safe products or biocontrol methods to deal with Varroa mites, which attack honeybees (<i>Pink/Green</i>) | |
| 17. <i>All</i> | | Stay updated on emerging pests of concern (<i>Green</i>) | |
| 18. <i>Government</i> | | Modify land management policies and programs to improve resilience to climate change (<i>All</i>) | |
| 19. <i>Producer</i> | | Attract native pollinators and other beneficials with hedgerows, flower strips, and polyculture (<i>Pink</i>) | |
| 20. <i>Agro-Industry</i> | | Study nutritional needs of honeybees, methods of supplying nutrition, and pesticide impact on honeybee health (e.g. hedgerows, flower strips) (<i>Pink/Green</i>) | |