### Preseason IPM Goals

- **Run two-week incomplete winter pruning and remove fire blight cankers and powdery mildew.**
- **Review preharvest damage and remove surface injury.**
- **Check and mark perimeter of block.**
- **Set wetness monitor flags.**
- **Update harvesting notes for the upcoming season.**
- **Train for Integrated Pest Management (IPM).**
- **Set IPM scouting traps for each LAW and OFM should be hung in the orchard.**
- **Review and mark perimeter of each block.**
- **Incorporate horticultural assessments and mark for IPM strategy.**
- **Report on the application court.**

**New EPA Worker Protection Standard for 2018**

Beginning in 2018 additional information must be included in the WPS pesticide safety poster, as per section 170.311(a)(3) of the WPS. Worker protection standard (WPS) creates a new 300 x 300 mm (12 x 12 inch) area for the creation of the Application Information Zone (AEZ), and an area for the creation of the Application Extension Zone (AEZ). AEZ requirements must include the following information:

- **Chemical name of the pesticide.**
- **Trade name of the pesticide.**
- **Registration number of the pesticide.**
- **Ingredient or component name of the pesticide.**
- **State and federal registration number.**
- **Use restriction for each}
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**Note:**
- Apple Scab Management: Take preventive measures to control the disease, particularly on young trees and in high-risk areas. Use a combination of cultural practices and chemical controls to manage scab. Spray orchards with approved fungicides at the optimal time based on weather conditions and disease pressure. Regular monitoring of leaf and fruit symptoms is crucial.
- Robust Management: Focus on maintaining strong tree vigor and improving nutrient uptake. Apply balanced fertilizers and consider using compost to improve soil health. Perform proper pruning techniques, including thinning and shaping, to enhance light penetration and reduce competition for resources.
- Post-Harvest/IPM Goals: Ensure thorough clean before applying urea; for a comprehensive cleaning checklist, visit: sprayers101.com/cleaning.
- Orchard Phenology: Scout for rodent activity and/or damage.
- Promoting Winter Hardiness: Prune and maintain trees in winter to help regulate soil temperature and avoid cold injury. Select cultivars that are well adapted to your climate, and check for any symptoms of cold injury. Use a dormant oil spray to prevent and control pests and diseases.

**October 2018**
- Post-Harvest/IPM Goals: Maintain wounded trees to ensure proper healing and reduce infection risk.
- Robust Management: Inspect trees for signs of feeding damage, such as frass or feeding marks, and address any issues promptly. Use post-harvest sprays to control pests and diseases.

**November 2018**
- Post-Harvest/IPM Goals: Continue to maintain AM until harvest IPM Goals are achieved.
- Robust Management: Check trees for signs of pest or disease activity. Use cultural practices and chemical controls as needed to manage pest populations and disease pressure.

**December 2018**
- Post-Harvest/IPM Goals: Continue to maintain AM until harvest IPM Goals are achieved.
- Robust Management: Focus on preparing trees for the cold season by providing proper winter care, such as protective tree wrapping or dormant oil sprays, and ensuring adequate water and fertility management.

**Abbreviations**
- AM = Apple maggot
- DD = Degree day
- APS = Apple scab
- APS = Apple scab
- OBLR = Orchard leaf roller
- RBLR = Redbanded leaf roller
- CM = Crimson blight
- IPM = Integrated Pest Management

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