

Background on 1,3-D



1,3-D is a pesticide that is applied to soil to control pests and disease. When 1,3-D is applied to soil some of it can release into the air.



1,3-D is used on fruit and nut trees, strawberries, grapes, carrots, sweet potatoes and other crops.



1,3-D is a Toxic Air Contaminant. This is because when 1,3-D is released into the air it can be harmful to a person's health, and it is why the law requires a permit to apply 1,3-D. Permits are issued by the County Agricultural Commissioner.



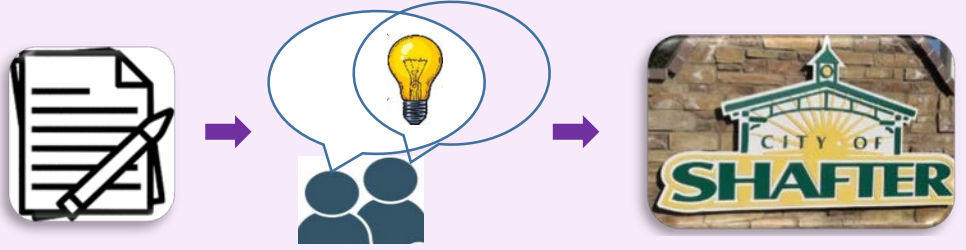
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Updated October 7, 2020
Flyer created by CalEPA

2 Efforts to Reduce 1,3-D Emissions

California Assembly Bill 617 (AB 617)



In 2017 AB 617 was signed into law to reduce air pollution in communities across the state.

AB 617 requires collaboration by community members, the regional air district and the California Air Resources Board (CARB).

Shafter was selected by CARB as a community where air pollution must be reduced to protect health. One priority area that was important to the Shafter community was reducing the amount of 1,3-D in the air.

Department of Pesticide Regulation (DPR) 1,3-D Mitigation Pilot



DPR began a Mitigation Pilot for the following 2 reasons:

- To explore if alternative 1,3-D application methods can be used by growers and applicators
- To support rulemaking to reduce the amount of 1,3-D in the air.

DPR worked with Shafter residents involved with AB 617 to identify an area to:

- Reduce the amount of 1,3-D in the air
- Conduct the *Mitigation Pilot*

The *Mitigation Pilot* is described in yellow below.

Department of Pesticide Regulation (DPR) 1,3-D Mitigation Pilot



Computer Modeling was done to help identify ways to apply 1,3-D to the soil that result in lower emissions to the air.

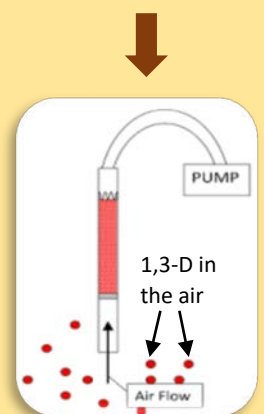
Growers and applicators who use 1,3-D are being asked to participate in the *Mitigation Pilot* for 1 year to reduce the amount of 1,3-D in the air.

Growers and applicators will apply 1,3-D to the soil using methods identified by computer modeling



Results from the air sampling will inform future rule-making for 1,3-D

Air samples of 1,3-D will be taken using tubes like the one shown in the picture to the right.



Map of Kern County

The *Mitigation Pilot Study Area* is outlined in the black box

The City of Shafter is represented by this ★

Areas colored in white used the least amount of 1,3-D. Areas colored in dark purple used the most amount of 1,3-D.

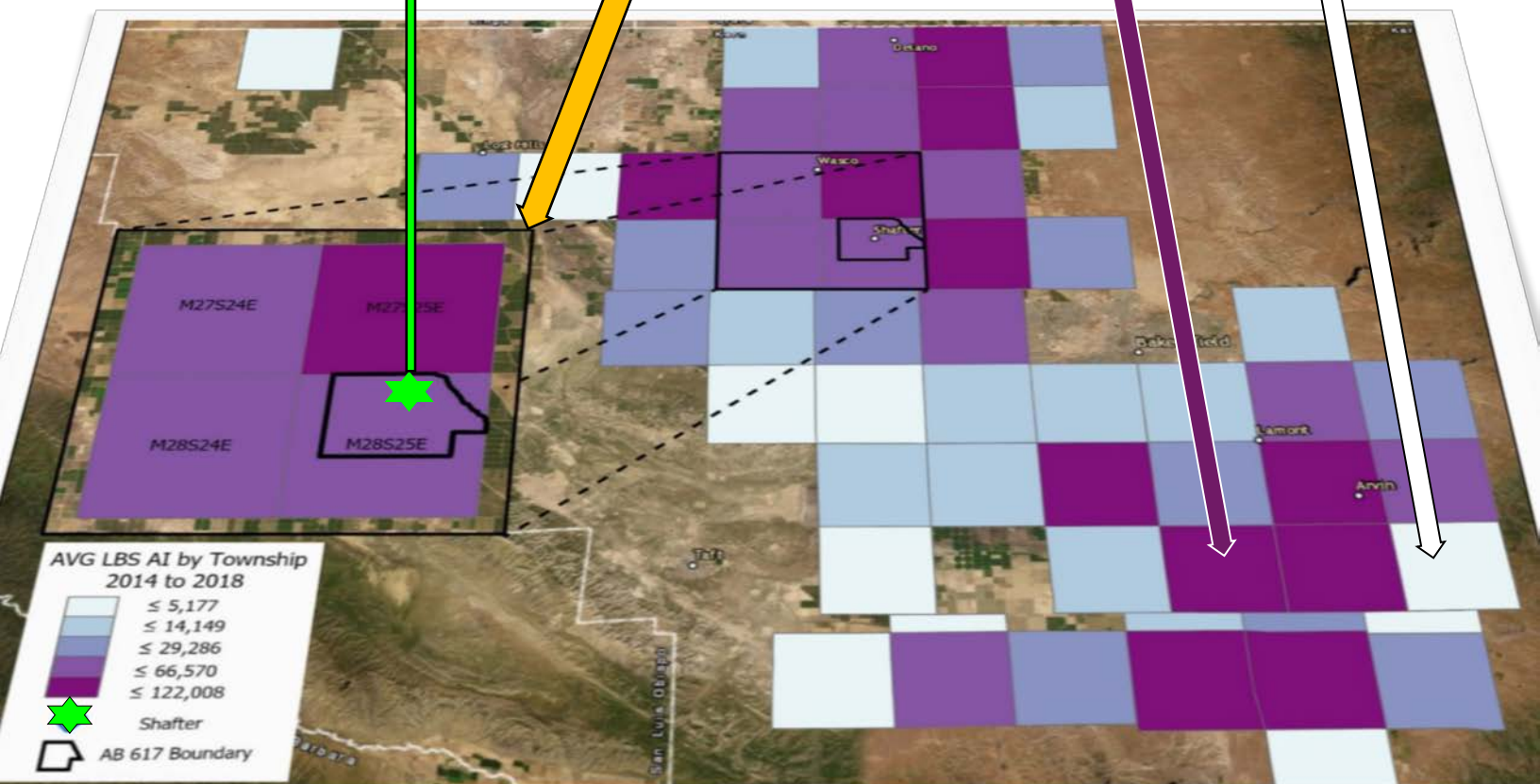


Figure 1 represents how much 1,3-D was used annually between 2014-2018 in Kern County.