

# Components of the Steering Committee Charter

- Committee objectives
- Roles and responsibilities
- Standard Committee Meeting Procedures
  - Deliberation and Consensus
  - Meeting frequency
  - Meeting dates, times, and locations to ensure accessibility
  - Use of facilitation services
  - Use of interpretation services at steering committee meetings and other outreach events

# Community Steering Committee Objectives

- Identify areas of concern for air pollution sources (within and outside of Community) and sensitive receptor sites
- Review existing available information on air quality
- Disseminate and solicit information to and from community stakeholders that each committee member represents
- Through the Committee's advisory role, assist the District with development of:
  - Air monitoring plan to be implemented by July 2019
  - Community Emission Reduction Program to be adopted by District Governing Board before October 2019

# Committee Roles and Responsibilities

- To inform your role of advising the District in its development of the Community Emission Reduction Program (CERP), the Committee members will discuss a variety of topics including:
  - community issues and contributing sources to develop a shared understanding of the community’s air pollution challenge;
  - who has responsibility and authority to address those issues;
  - proposed strategies for the community emissions reduction programs;
  - mechanisms for engaging with other agencies;
  - approaches for additional community outreach;
  - other topics of interest to the committee

# Committee Roles and Responsibilities (con't)

- The committee will discuss the major elements of the Community Emission Reduction Program as they are developed including:
  - community engagement;
  - the community profile and technical assessment;
  - targets and strategies; the enforcement plan; and metrics to track progress
- Government official committee members serve as full participants in the committee, except that they serve in an advisory role, not a voting role, in final consensus building and decision making processes

# Committee Roles and Responsibilities (con't)

- Committee Member Participation:
  - Members (or designated alternates) are expected to attend all committee meetings, in their entirety, throughout the course of the year prior to the Community Emissions Reduction Program adoption
  - If primary member is unable to attend, designated alternate on the steering committee roster may attend in their absence and deliberate on the primary member's behalf
    - The primary member is responsible for working with the District ensuring that the alternate is kept informed of the committee's process
  - To encourage active participation, if a primary member or their alternate has not attended three consecutive steering committee meetings, their membership may be revoked

# Standard Committee Meeting Procedures

## Key Considerations

- Deliberation and Consensus
  - Professional and impartial facilitators will be employed to support the steering committee in the overall organization, order and focus of the meeting, resolve conflicts and help reach consensus to ensure the goals and objectives of this charter are met
  - Achieving full consensus of the steering committee may not always be possible. However, reasonable efforts will be made to capture all of the perspectives that were expressed in meeting minutes, committee documents, and related reports, including the final Community Emission Reduction Program

# Standard Committee Meeting Procedures

## Key Considerations (con't)

- Meeting Schedule and Agendas
  - Upon consensus agreement of the committee, meeting schedules may be adjusted with adequate advance notice
  - Agendas and agenda topics will be informed by committee input, developed by the Air District, and will include the time, date, duration, location and topics to be discussed
- Accessibility/Accommodation
  - The steering committee meetings and other events associated with the committee must be held at facilities that can accommodate members covered by the Americans with Disabilities Act
  - Language interpretation services will be provided in Spanish at all meetings, and as needed in other languages with a minimum 48-hour advance request

# Comments Received and Addressed

- The Charter should state clearly that sources of emissions that exist outside the Community’s boundary, but that may impact the Community, can be treated as if they were within the Community Boundaries.
  - Done (already allowed by state’s “Blueprint”)
- The advisory role of Committee members who are representatives of government agencies should be moved from Attachment A, “AB 617 Community Steering Committee Selection Criteria,” to the Charter itself.
  - Done (nothing new, already part of membership selection criteria)



# No comments received

- No comments received on one question:  
whether a “Code of Conduct” or a “Participation Agreement” was necessary or desired
  - Because it had already been prepared for the Draft Charter, a Participation Agreement is included as Attachment B

**Key question** – Does the Committee:

- want the Participation Agreement, or
- approve Charter without Participation Agreement?



# Sources of Emissions within Shafter Community

January 14, 2019

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San Joaquin Valley Air Pollution Control District

# Criteria Pollutant Emissions

- TOG: Total Organic Gases
- ROG: Reactive Organic Gases (used by ARB)
- VOC: Volatile Organic Compounds (used by EPA and SJV)
- CO: Carbon Monoxide
- NO<sub>x</sub>: Oxides of Nitrogen
- SO<sub>x</sub>: Oxides of Sulfur
- PM: Particulate Matter
- PM<sub>10</sub>: Particulate Matter < 10 Microns in diameter
- PM<sub>2.5</sub>: Particulate Matter < 2.5 Microns in diameter
- NH<sub>3</sub>: Ammonia

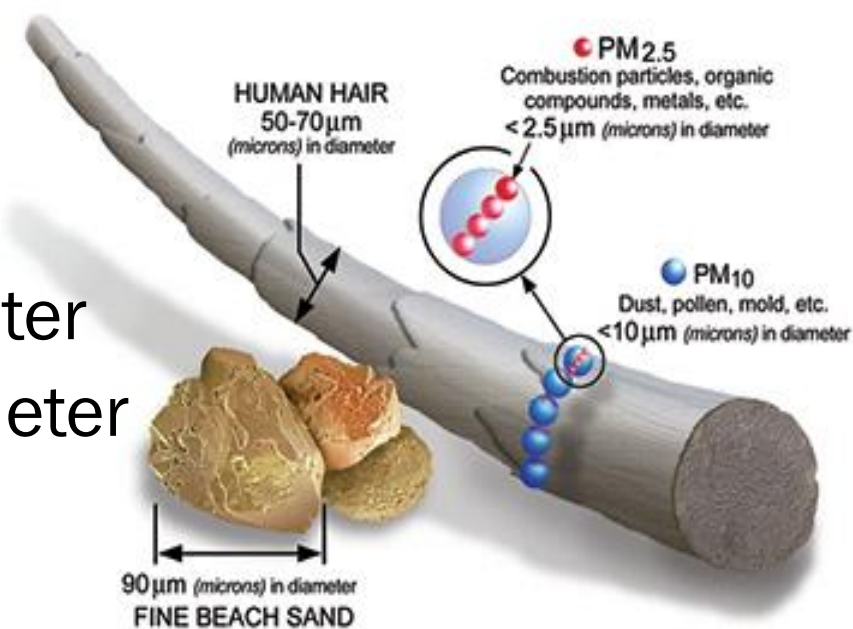


Image courtesy of the U.S. EPA

# Air Toxic Emissions

- Hazardous Air Pollutants (HAPs) – EPA
  - 190 compounds listed
- Toxic Air Contaminants (TACs) – CARB
  - 797 Compounds listed
- Examples of air toxics
  - Particulate matter from diesel engine trucks and generators exhaust
  - Benzene and formaldehyde and from cars and trucks using gasoline
  - Benzene, ethylbenzene, naphthalene in vapors from painting
  - Benzene, toluene, ethylbenzene, and xylene (BTEX) from oilfield and gas station activities
  - Lead, chrome, nickel and other metals from field and road dust

# Sources of Emissions in Shafter

- Various source types contribute to emissions within community
- Stationary Sources (Regulated by the District)
  - Gas stations, auto body shops, backup diesel generators, oil industry activities
  - 31 permitted facilities
- Mobile On-Road Sources (State and Federal Jurisdiction)
  - Cars and trucks
  - Main roadways (Hwy 43, Lerdo Hwy, Shafter Ave)
- Mobile Off-Road Sources (State and Federal Jurisdiction)
  - Ag Tractors, balers, harvesters, forklifts, construction equipment
- Areawide Sources (Regulated by Various Agencies)
  - Residential fuel combustion, consumer products, pesticides and fertilizers, farming, cooking, windblown dust, road dust

# Work by District to Quantify Emissions

- Actual emissions reported annually to District by permitted facilities
- The emissions are quantified using:
  - Annual process, fuel, or usage rate
  - Emission factor
    - Monitoring data
    - Source test
    - EPA or CARB data
    - Permit limit
    - Other data

# Shafter Emissions Summary

| Source Category   | Emissions<br>(tons/year) |             |              |
|-------------------|--------------------------|-------------|--------------|
|                   | NOx                      | PM2.5       | VOC          |
| Stationary Source | 3.2                      | 5.7         | 11.9         |
| Mobile - On Road  | 94.9                     | 1.7         | 20.9         |
| Mobile - Off Road | 24.1                     | 1.1         | 3.1          |
| Areawide          | 15.4                     | 20.6        | 85.4         |
| <b>Total</b>      | <b>137.6</b>             | <b>29.1</b> | <b>121.3</b> |

| Source Category   | Emissions<br>(% of total by pollutant) |             |             |
|-------------------|--|-------------|-------------|
|                   | NOx                                    | PM2.5       | VOC         |
| Stationary Source | 2.3%                                   | 19.6%       | 9.8%        |
| Mobile - On Road  | 69.0%                                  | 5.8%        | 17.2%       |
| Mobile - Off Road | 17.5%                                  | 3.8%        | 2.6%        |
| Areawide          | 11.2%                                  | 70.8%       | 70.4%       |
| <b>Total</b>      | <b>100%</b>                            | <b>100%</b> | <b>100%</b> |

- District stationary source air toxics emissions are 0.62 tons/year



# Stationary Source Emissions in Shafter

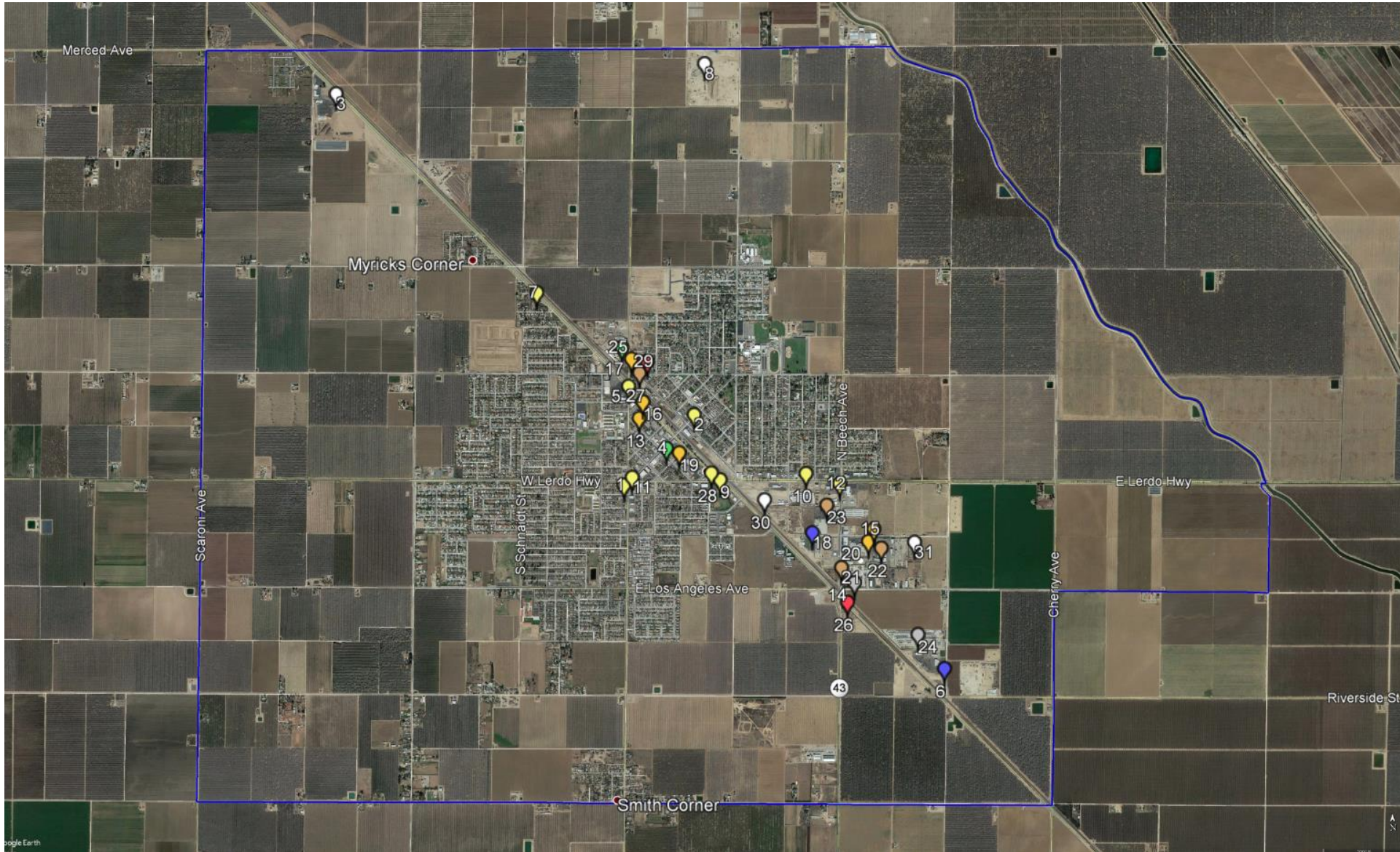
| Facility Name                  | NOx (tpy) |
|--------------------------------|-----------|
| CA Resources Production        | 2.99      |
| Con-Fab CA                     | 0.03      |
| City of Shafter-Cen Valley Hwy | 0.03      |
| City of Shafter-Shafter Ave    | 0.03      |
| Omni Family Health             | 0.02      |

| Facility Name           | PM2.5 (tpy) |
|-------------------------|-------------|
| Global Fabricators      | 2.86        |
| Shar Craft              | 1.17        |
| CA Resources Production | 0.81        |
| Shafter-Wasco Ginning   | 0.51        |
| Con-Fab CA              | 0.30        |

| Facility Name           | VOC (tpy) |
|-------------------------|-----------|
| CA Resources Production | 4.21      |
| Global Fabricators      | 2.10      |
| Fox Petroleum           | 1.72      |
| Jaco Hill               | 1.31      |
| Shar Craft              | 0.71      |

| Facility Name         | Toxic Name | Air Toxics (tpy) |
|-----------------------|------------|------------------|
| Fox Petroleum         | Toluene    | 0.14             |
| Jaco Hill             | Toluene    | 0.11             |
| Shafter-Wasco Ginning | Aluminum   | 0.08             |
| Greg's Petroleum      | Toluene    | 0.05             |
| Fox Petroleum         | Xylenes    | 0.04             |

# District Permitted Facilities in Shafter



# Areawide Emissions in Shafter

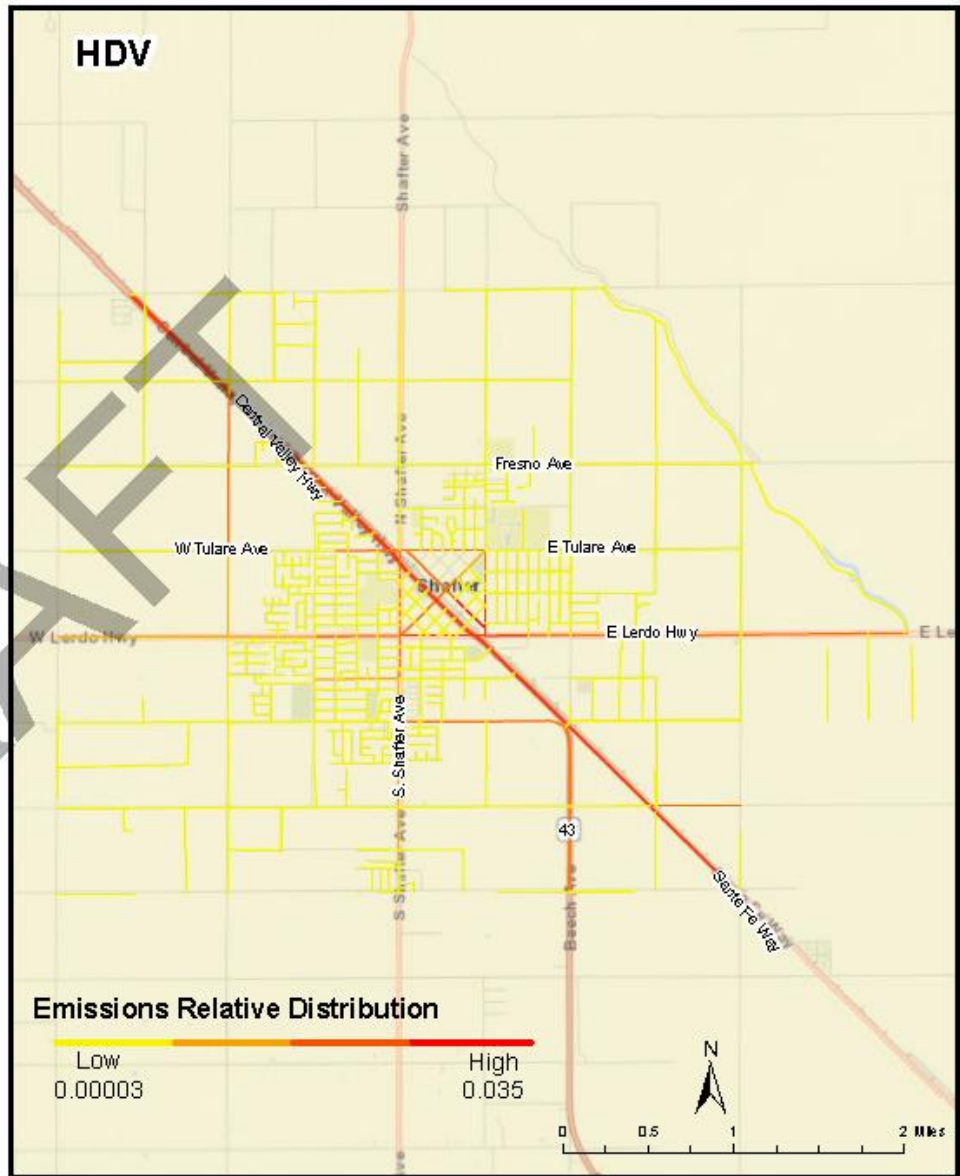
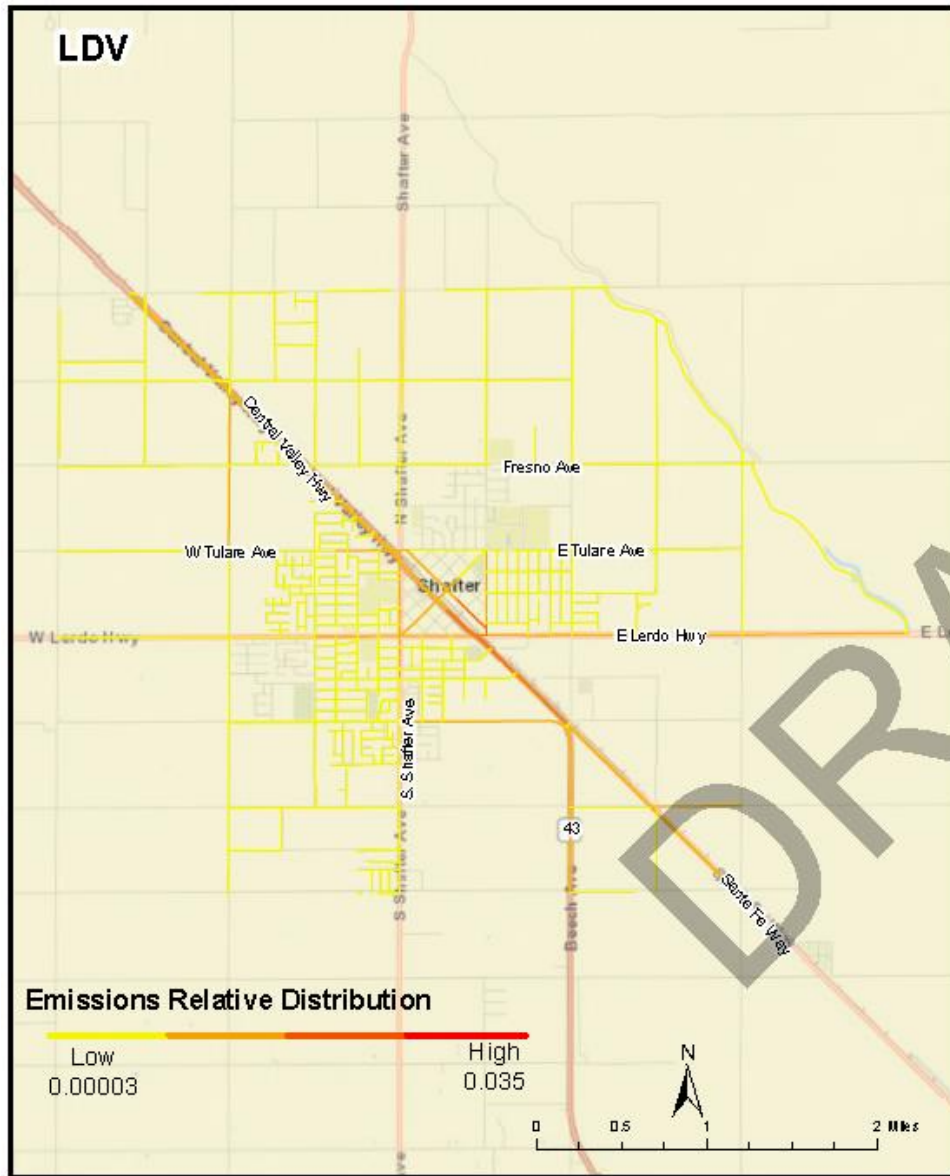
| Categories<br>(Top 5 Contributors) | NOx<br>(tpy) |
|------------------------------------|--------------|
| Residential Fuel Combustion        | 9.1          |
| Food and Ag Processing             | 3.4          |
| Service and Commercial             | 2.0          |
| Manufacturing and Industrial       | 0.6          |
| Other Fuel Combustion              | 0.2          |

| Categories<br>(Top 5 Contributors)  | VOC<br>(tpy) |
|-------------------------------------|--------------|
| Consumer Products                   | 30.6         |
| Architectural Coatings and Solvents | 13.1         |
| Pesticides / Fertilizer             | 11.2         |
| Printing                            | 6.8          |
| Petroleum Marketing                 | 6.1          |

| Categories<br>(Top 5 Contributors) | PM2.5<br>(tpy) |
|------------------------------------|----------------|
| Farming                            | 9.9            |
| Cooking                            | 6.9            |
| Windblown Dust                     | 1.8            |
| Residential Fuel Combustion        | 0.8            |
| Unpaved Road Dust                  | 0.6            |



# Mobile Source Emissions in Shafter



# Mobile Source Emissions in Shafter

| Mobile Sources              | Emissions (tons/year) |            |             |
|-----------------------------|-----------------------|------------|-------------|
|                             | NOx                   | PM2.5      | VOC         |
| On-Road Heavy Duty Vehicles | 73.0                  | 1.5        | 3.7         |
| On-Road Light Duty Vehicles | 21.9                  | 0.2        | 17.2        |
| Off-Road Vehicles           | 24.0                  | 1.1        | 3.1         |
| <b>Total</b>                | <b>118.9</b>          | <b>2.8</b> | <b>24.0</b> |