

## Preliminary summary for ozone exceedances 23-25 June 2016

The 8-hour NAAQS for ozone (70 parts per billion, ppb) was exceeded at the many Las Vegas valley stations during the 3-day period from June 23 to 25. Daily occurrences were:

- On June 23, the Joe Neal site in the northwestern Las Vegas valley had an 8-hour average of 72 ppb, exceeding the 70 ppb Standard. Slightly lower ozone levels occurred at other stations in the DAQ network.
- On June 24, unusually high one-hour values occurred midday resulting in most stations exceeding the Standard.
- On June 25, seven of the valley stations had hourly ozone levels above 70 ppb. The 8-hour average at the Joe Neal site was 73 ppb (AQI 108), other stations were close to that but did not exceed.

The high ozone levels were partly due to wildfire smoke originating in southern California combined with local emissions with low wind speeds. The regional air mass included high-pressure ridge weather pattern producing abundant sunshine and low wind speeds, with daytime airflow generally from the southeast across the valley toward the northwest. This pattern caused strong ozone generation with little dilution producing the elevated concentrations.