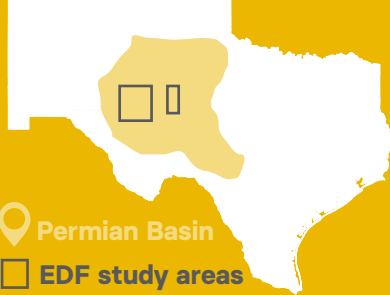


Permian oil and gas flaring emissions

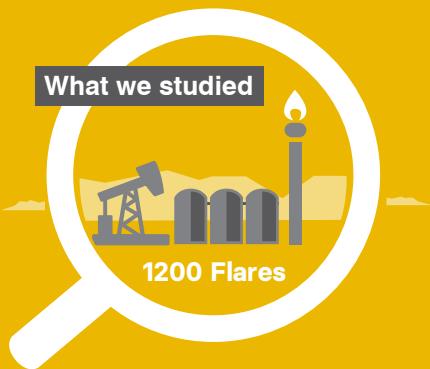
Where we studied



Permian Basin
EDF study areas



What we studied



1200 Flares



How we did it



Aerial surveillance



4 Random surveys

Periodic, covers flares in various areas
Feb. | March | June | Nov.



3 Repeat surveys

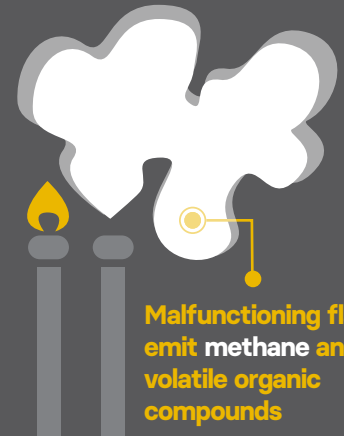
Consecutive, covers all flares in one area
Nov. 2 | Nov. 4 | Nov. 6

What we found



10% Flares are malfunctioning

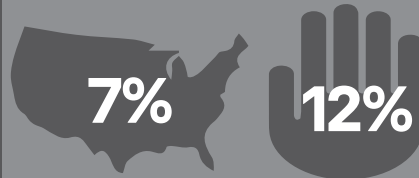
5% Are unlit and venting



Malfunctioning flares emit methane and volatile organic compounds

Where it's worst

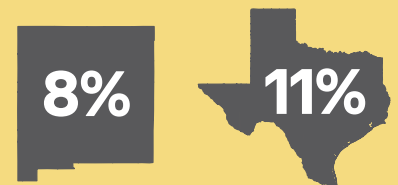
Malfunction rate by land owner



Public Lands

Private Lands

Malfunction rate by location



New Mexico

Texas

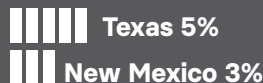
Why flares fail



Combustion issues



Unlit and venting



Repeat Offenders

More than half of flares malfunction repeatedly

