Permian oil and gas flaring emissions

Where we studied
Permián Basin
EDF study areas

What we studied
Aerial surveillance
Random surveys
Repeat surveys
1200 Flares

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: 7%
Private Lands: 12%
Malfunction rate by location
New Mexico: 8%
Texas: 11%

Why flares fail
Combustion issues
Texas: 6%
New Mexico: 5%
Unlit and venting
Texas: 5%
New Mexico: 3%

Repeat Offenders
More than half of flares malfunction repeatedly
Single malfunction: 56.5%
Multiple malfunctions: 43.5%

Learn more at PermianMAP.org