

Acronyms

ACRONYMS, ABBREVIATIONS, AND INITIALISMS

AADT: Annual Average Daily Trips
AB: Assembly Bill
ACC: Advanced Clean Cars
ACT: Alternative Control Techniques
AEO: Annual Energy Outlook
AERO: Advanced Emission Reduction Options
AERR: Air Emissions Reporting Requirements
AFO: Animal Feeding Operation
AIP: Achieved in Practice
AIRS: Atmospheric Infrared Sounder
AMI: Acute Myocardial Infarction
AMP: Air Monitoring Program
AMR: Annual Monitoring Report
AO: Agricultural Operations
APCD: Air Pollution Control District
APCO: Air Pollution Control Officer
AQ: Air Quality
AQAST: Air Quality Applied Science Team
AQI: Air Quality Index
AQIP: Air Quality Improvement Program
AQMD: Air Quality Management District
AQMP: Air Quality Management Plan
AQS: Air Quality System
ARB: California Air Resources Board
ARRA: American Reinvestment and Recovery Act
ATC: Authority to Construct
ATCM: Airborne Toxic Control Measure
BACM: Best Available Control Measure
BACT: Best Available Control Technology
BCs: Boundary Conditions
BEARPEX: Biosphere Effects on Aerosols and Photochemistry Experiment in 2007 and 2009
BEIGIS: Biogenic Emission Inventory GIS
BHP: Brake Horsepower
BMP: Best Management Practice
BTU: British Thermal Units
BVOC: Biogenic Volatile Organic Compounds
CAA: Clean Air Act
CABERNET: California Airborne BVOC Emission Research in Natural Ecosystem Transects in 2011
CAC: Citizens Advisory Committee

CAF: Confined Animal Facilities
CALFIRE: California Department of Forestry and Fire Protection
CalNex: Research at the Nexus of Air Quality and Climate Change conducted in 2010
CalTrans: California Department of Transportation
CalVAD: California Vehicle Activity Database
CARES: Carbonaceous Aerosols and Radiative Effects Study in 2010
CCAQS: Central California Air Quality Studies
CCDAQ: Clark County Department of Air Quality
CCOS: Central California Ozone Study
CDFA: California Department of Food and Agriculture
CE: Cost Effectiveness
CEC: California Energy Commission
CE-CERT: University of California, Riverside College of Engineering - Center for Environmental Research and Technology
CEIDARS: California Emission Inventory Development and Reporting System
CEMS: Continuous Emissions Monitoring System
CEPAM: California Emissions Projection Analysis Model
CEQA: California Environmental Quality Assessment
CFR: Code of Federal Regulations
CGYM: Clean Green Yard Machine
CH&SC: California Health and Safety Code
CIT: California Institute of Technology
CIMIS: California Irrigation Management Information
CM: Control Measures
CMAQ: Community Multi-Scale Air Quality
CMAQ: Congestion Mitigation and Air Quality
CMP: Conservation Management Practice
CNG: Compressed Natural Gas
CO: Carbon Monoxide
CO2: Carbon Dioxide
CPRC: California Public Resources Code
CRF: Capital Recovery Factor
CRPAQS: California Regional Particulate Air Quality Study
CSUF: California State University, Fresno
CTG: Control Techniques Guidelines
CVP: Central Valley Project
CVRP: Clean Vehicle Rebate Project
DAC: Direct Annual costs
DC: Direct Capital (costs)
DERA: Diesel Emission Reductions Act
DF: Deposition Fraction
DI: Direct Installation (cost)
Discover – AQ: Deriving Information on Surface Conditions from Column and Vertically Resolved Observations Relevant to Air Quality

District: San Joaquin Valley Air Pollution Control District
DMV: Department of Motor Vehicles
DOF: Department of Finance
DOGGR: California Department of Conservation's Division of Oil, Gas, and Geothermal Resources
DOT: Department of Transportation
DOW: Day of Week
DPR: Department of Pesticide Regulation
DPWK: Days per Week code
DTIM4: Direct Travel Impact Model
DV: Design Value
e-AIM: Extended Aerosol Inorganics Model
EC: Elemental Carbon
ECF: Efficiency Correction Factor
EF: Emission Factor
EF & EE: Engine, Fuel and Emission Engineering
EFMP: Enhanced Fleet Modernization Program
EIC: Emission Inventory Code
EJAG: Environmental Justice Advisory Group
EMFAC: Emission Factors Model
EPA: U.S. Environmental Protection Agency
ER: Emergency Room
ERC: Emission Reduction Credits
eTrip: Employer-Based Trip Reduction
ESP: Electrostatic Precipitator
FAF: Freight Analysis Framework
FDDA: Four- Dimensional Data Assimilation
FDEP: Florida Department of Environmental Protection
FDOC: Final Determination of Compliance
FEM: Federal Equivalent Method
FG: Flare Gas
FHWA: Federal Highway Administration
FMMP: Farmland Mapping and Monitoring Program
FMP: Flare Minimization Plan
FOFEM: First Order Fire Effects
FR: Federal Register
FRAP: Fire and Resource Assessment Program
FRIS: Farm and Ranch Irrigation Survey
FRM: Federal Reference Method
FY: Fiscal Year
GDFs: Gasoline Dispensing Facilities
GEOS-5: Goddard Earth Observing System Model, Version 5
GHG: Greenhouse Gas
GIS: Geographic Information System
GMAO: Global Modeling and Assimilation Office

GVWR: Gross Vehicle Weight Rating
HAL: Healthy Air Living
HC: Hydrocarbon
HD: Heavy Duty
HEPA: High-Efficiency Particulate Arresting (filtration systems)
HHDV: Heavy Heavy-Duty Vehicles
HMA: Hot-Mix Asphalt
HO: Hydroxyl Radical
HOTS: Heavy Oil Test Stations
HPDY: Hours per Day code
HRRS: Heath Risk Reduction Strategy
HVIP: Hybrid Truck and Bus Voucher Incentive Program
IAC: Indirect Annual Costs
IC: Internal Combustion
ICs: Initial Conditions
IEPR: Integrated Energy Policy Report
IOUs: Investor Owned Utilities
IMPROVE: Interagency Monitoring of Protected Visual Environments
IRP: International Registration Plan
ISD: In-station Diagnostic
ISR: Indirect Source Review
kW: Kilowatt
kWH: Kilowatt-hour
LAER: Lowest Achievable Emission Rate
lb/MMBtu: Pounds per Million British thermal units of heat output
LAI: Leaf Area Index
LDT: Light-Duty Trucks
LHDV: Light Heavy-Duty Vehicles
LMA: Land Management Agency
LPG: Liquefied Petroleum Gas
LTO: Low Temperature Oxidation
LSI: Large Spark Ignited
MACT: Maximum Achievable Control Technology
MCF: Thousand Cubic Feet
MCSF: Thousand Cubic Standard Feet
MCY: Motorcycles
MDA8: Maximum Daily Average 8-Hr. Ozone
MEGAN: Model of Emission of Gases and Aerosols from Nature
MH: Motor Homes
MHDV: Medium Heavy-Duty Vehicles
MMBtu/hr: Million British Thermal units per hour
MOU: Statement of Principles
MOZART: Model for Ozone and Related Chemical Tracers
MPO: Metropolitan Planning Organization
MSA: Metropolitan statistical area

MSM: Most Stringent Measure
MSW: Municipal Solid Waste
MW: Megawatt
NAAQS: National Ambient Air Quality Standards
NARR: North American Regional Reanalysis
NASA: National Aeronautics and Space Administration
NASS: National Agriculture Statistics Service
NCAR: National Center for Atmospheric Research
NESHAP: National Emission Standards for Hazardous Air Pollutants
NG: Natural Gas
ng/J: Nanograms per Joule of heat output
NO: Nitrogen Oxide
NOAA: National Oceanic and Atmospheric Administration
NOx: Oxides of Nitrogen
NPS: Nation Park Service
NRCS: Natural Resources Conservation Service
NSCR: Non-Selective Catalytic Reduction
NSPS: New Source Performance Standard
NSR: New Source Review
NTE: Not-to-Exceed
OAQPS: Office of Air Quality Planning and Standards (EPA)
OB: Other Buses
OBD: On-Board Diagnostics
OC: Organic Carbon
OFP: Ozone Forming Potential
OGV: Ocean-Going Vessels
OH: Hydroxyl Radicals
O & M: Operating and Maintenance
OMB: Office of Management and Budget
OMP: Operator Management Plan
ORVR: Onboard Refueling Vapor Recovery
PAH: Polycyclic Aromatic Hydrocarbons
PAN: Peroxy Acetyl Nitrate
PASS: Polluting Automobile Scrap and Salvage
PAW: Public Advisory Workgroup
PBW: Particle Bound Water
PCAPCD: Placer County Air Pollution Control District
PEC: Purchased Equipment Costs
PEER: Permit-Exempt Equipment Registration
PERP: Portable Equipment Registration Program
PFTs: Plant Functional Types
PG& E: Pacific Gas and Electric
PM: Particulate Matter
PM0.1: Ultrafine Particles

PM10: Particulate Matter that is 10 microns or less in diameter
PM2.5: Particulate Matter that is 2.5 microns or less in diameter
POA: Primary Organic Aerosols
PPB: Parts per billion
PPM: Parts per million
PPMV: Parts per million by volume
PPN: Particulate Protein Nitrogen
PSD: Particle Size Distribution
PST: Pacific Standard Time
PTFE: Poly Tetra Fluoro Ethylene
PUC: Public Utilities Commission
QA: Quality Assurance
QC: Quality Control
RAAN: Real-Time Air Quality Advisory Network
RACM: Reasonably Available Control Measures
RACT: Reasonably Available Control Technology
RAP: Reclaimed Asphalt Pavement
RARE: Regional Applied Research Effort
RAWS: Remote Automated Weather Stations
RBS: Risk-Based Strategy
REES: Regional Energy Efficiency Strategy
REHEX: Regional Human Exposure Model
REMI: Regional Economic Models, Inc.
REMOVE: REduce MOtor Vehicle Emissions
RFP: Reasonable Further Progress
RFP: Request for Proposals
RFQ: Request for Qualifications
RH: Relative Humidity
ROAR: Real-time Outdoor Activity Risk
ROP: Rate-of-Progress
ROS: Reactive Oxygen Species
RPS: Renewable Portfolio Standard
RRD: Respirable Road Dust
RRF: Relative Response Factors
RTO: Regenerative Thermal Oxidizer
RV: Recreational Vehicles
SA: Stationary Aggregated
SANDWICH: Sulfate, Adjusted Nitrate, Derived Water, Inferred Carbonaceous material balance approach
SAPRC: Statewide Air Pollution Research Center
SB: School Buses
SB: Senate Bill
SBA: Small Business Assistance
SBCAPCD: Santa Barbara County Air Pollution Control District

SBS: Sodium Bisulfate
SC: Source Category
SCAQMD: South Coast Air Quality Management District
SCC: Source Classification Code
SCF: Standard Cubic Feet
SCM: Suggested Control Measure
SCR: Selective Catalytic Reduction
SIP: State Implementation Plan
SLAMs: State and Local Air Monitoring Stations
SJV: San Joaquin Valley
SJVAPCD: San Joaquin Valley Air Pollution Control District
SJVUAPCD: San Joaquin Valley Unified Air Pollution Control District
SMAQMD: Sacramento Metropolitan Air Quality Management District
SMAT: Speciated Modeled Attainment Test
SMOKE: Sparse Matrix Operator Kernel Emissions
SMS: Smoke Management System
SNCR: Selective Non-Catalytic Reduction
SOA: Secondary Organic Aerosol
SORE: Small Off-Road Engines
SOx: Oxides of Sulfur
STN: Speciated Trend Network
TAC: Toxic Air Contaminant
TAP: Technology Advancement Program
TAZ: Traffic Analysis Zone
TCI: Total Capital Investments
TITU: Tune in Tune Up
TMR: Total Mixed Ration
TOC: Total Organic Compounds
TOG: Total Organic Gases
TPA: Transportation Planning Agencies
Tpd: Tons per day
Tpy: Tons per year
TRU: Transport Refrigeration Unit
TSD: Technical Support Document
TSM: Total Selective Metals
TVP: True Vapor Pressure
TVP: Truck Voucher Program
UB: Urban Buses
UCSF: University of California, San Francisco
UFP: Ultrafine Particles
US: United States
USB: United States Background
USDA: United States Department of Agriculture
USDA-ARS: United States Department of Agriculture-Agricultural Research Service
USG: Unhealthy for Sensitive Groups

Valley: San Joaquin Valley
VCAPCD: Ventura County Air Pollution Control District
VDE: Visible Dust Emissions
VIP: Voucher Incentive Program
VMT: Vehicle Miles Traveled
VOC: Volatile Organic Compounds
WAAQS: Web-based Archived Air Quality System
WOE: Weight of Evidence
WMA: Warm-Mix Asphalt
WRAP: Western Regional Air Partnership
WRF: Weather and Research Forecast Model
WWTP: Wastewater Treatment Plan
XRF: X-ray Fluorescence
ZEV: Zero-Emission Vehicle
 $\mu\text{g}/\text{m}^3$: Micrograms per Cubic Meter