

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 Emissions Reductions Options
AIP: achieved in practice
AIR: Association of Irrigated Residents
AMI: acute myocardial infarction
AO: agricultural operations
APCO: Air Pollution Control Officer
AQI: Air Quality Index
AQIP: Air Quality Incentive Program
AQMD: Air Quality Management District
AQMP: Air Quality Management Plan
AQS: Air Quality System
ARB: California Air Resources Board
ARRA: American Reinvestment & Recovery Act
ATCM: Airborne Toxic Control Measure
ATV: all-terrain vehicles
AUSPEX: Atmospheric Utility Signatures, Predictions and Experiments
AWE: area-weighted exposure
BAAQMD: Bay Area Air Quality Management District
BACM: Best Available Control Measure
BACT: Best Available Control Technology
BAM/FEM: Real-time Beta-attenuation method monitors designated as federal equivalent method
BAM: beta-attenuation method
BAR: Bureau of Automotive Repair
BC: Boundary Conditions
BEIGIS: geographic information system based model for estimating BVOC emissions
BenMAP: The Environmental Benefits Mapping and Analysis Program
bhp: brake horsepower
BMP: best management practice
BVOC: biogenic volatile organic compound
CAA: Clean Air Act
CAF: confined animal facility
CAPCOA: California Air Pollution Control Officers Association
CARB: California Air Resources Board
CART: Classification and Regression Trees Method
CASAC: Clean Air Scientific Advisory Committee

CAV: clean air vehicle
CBIV: Carbon Bond IV Chemical Mechanism
CCAQS: Central California Air Quality Studies
CCDAQ: Clark County Department of Air Quality
CCOS: Central California Ozone Study
CCSE: California Center for Sustainable Energy
CEC: California Energy Commission
CE-CERT: University of California, Riverside College of Engineering - Center for Environmental Research and Technology
CEFS: California Emission Forecasting and Planning Inventory System
CEIDARS: California Emission Inventory Development and Reporting System
CEMS: Continual Emissions Monitoring System
CEPAM: California Emissions Projection Analysis Model
CEQA: California Environmental Quality Act
CFO: Clean Fuels Outlet
CFR: Code of Federal Regulations
CGYM: Clean Green Yard Machine
CH&SC: California Health and Safety Code
ChIP: Charbroiler Incentive Program
CM: control measures
CMAQ: Community Multi-Scale Air Quality
CMAS: Community Modeling and Analysis System
CMB: chemical mass balance
CMP: Conservation Management Practice
CNG: compressed natural gas
CO: carbon monoxide
CO₂: carbon dioxide
COG: Council of Governments
COI: cost of illness
CPF: conditional probability function
CRF: concentration response function
CRPAQS: California Regional Particulate Air Quality Study
CSN: Chemical Speciation Network
CTG: Control Techniques Guidelines
CTM: chemical transport models
CV: cardiovascular; or coefficient of variation
CVAQ: Central Valley Air Quality Coalition
CVRP: Clean Vehicle Rebate Project
DC&E: Design, Community, and Environment
DERA: Diesel Emission Reductions Act
DF: deposition fraction
District: San Joaquin Valley Air Pollution Control District
DMV: Department of Motor Vehicles

DOE: Department of Energy
DOF: Department of Finance
DOGGR: California Department of Conservation's Division of Oil, Gas, and Geothermal Resources
DOORS: Diesel Off-road On-line Reporting System
DPF: diesel particulate filter
DPR: Department of Pesticide Regulation
DTIM: Direct Travel Impact Model
DV: design value
EC: elemental carbon
EE: exceptional event
EF&EE: Engine, Fuel, and Emissions Engineering, Inc.
EF: emission factor
EFMP: Enhanced Fleet Modernization Program
EIC: Emission Inventory Code
EJ: Environmental Justice
EMFAC: Emission Factors Model
EPA: U.S. Environmental Protection Agency
EPDC: expected peak daily concentration
EQIP: Environmental Quality Incentives Program
ER: emergency room
ERC: emission reduction credits
ESP: electrostatic precipitator
eTRIP: Employer Trip Reduction Implementation Plan
FDDA: Four Dimensional Data Assimilation
FDOC: final determination of compliance
FEM: federal equivalent method
FFMP: Farmland Mapping and Monitoring Program
FIP: federal implementation plan
FMP: Flare Minimization Plan
FORTRAN: The IBM Mathematical Formula Translating System
FR: Federal Register
FRM: Federal Reference Method
FTIP: Federal Transportation Improvement Plan
FY: fiscal year
GE: gross error
GHG: greenhouse gas
GICG: Gridded Inventory Coordination Group
GIS: geographic information systems
GMRP: Proposition 1B Goods Movement Emission Reduction Program
GSE: ground support equipment
GVWR: gross vehicle weight rating
HEP: head end power

HHDV: heavy heavy-duty vehicles
HO: hydroxyl radical
HOTS: heavy oil test stations
HRRS: Heath-Risk Reduction Strategy
HVIP: Hybrid Truck and Bus Voucher Incentive Program
IC: internal combustion; or initial conditions
ICAPCD: Imperial County Air Pollution Control District
IEPR: Integrated Energy Policy Report
ILD: idle limiting device
ILEV: inherently low emission vehicle
IMP: imputed values
IMPROVE: Interagency Monitoring of Protected Visual Environments
IMS-95: Integrated Monitoring Study in 1995
IQR: interquartile range
ISR: indirect source review
JPA: joint powers authority
kW: kilowatt
lb/MMBtu: pounds per million British thermal units of heat output
LD50: dose causing death for 50% of the exposed subjects
LDA: light-duty passenger
LDT: light-duty trucks
LEV: low-emission vehicles
LHDV: light heavy-duty vehicles
LMA: Land Management Agency
LNB: low-NOx burners
LNG: liquefied natural gas
LPG: liquefied petroleum gas
LSI: large spark-ignited
LTO: low temperature oxidation
MACT: maximum achievable control technology
MCY: motorcycles
MDL: minimum detection limit
MDV: medium-duty vehicles
MEGAN: Model of Emissions of Gases and Aerosols from Nature
MFB: mean fractional bias
MFE: mean fractional error
MH: motor homes
MHDV: medium heavy-duty vehicles
MHP: medium horsepower
MIR: maximum incremental reactivity
MM5: Mesoscale Meteorological Model Version 5
MMBtu/hr: million British thermal units per hour
MMS: Mesoscale Meteorological Model

MODIS: Moderate Resolution Imaging Spectroradiometer
MOU: Memorandum of Understanding
MOZART: Model for Ozone and Related chemical Tracers
MPO: Metropolitan Planning Organization
MSA: metropolitan statistical area
MSW: municipal solid waste
MTBE: methyl tertiary butyl ether
MVCP: motor vehicle control program
MW: megawatt
NAAQS: national ambient air quality standards
NAICS: North American Industry Classification System
NAMS: National Air Monitoring Station
NB: normalized bias
NCAR: National Center for Atmospheric Research
NCEP: Nation Centers for Environmental Prediction
NESHAP: National Emission Standards for Hazardous Air Pollutants
ng/J: nanograms per Joule of heat output
NH₃: ammonia
NMB: normalized mean bias
NMOC: non-methane organic compounds
NOAA: National Oceanic and Atmospheric Administration
NO_x: oxides of nitrogen
NO_y: reactive nitrogen
NQ: not quantifiable
NRCS: Natural Resources Conservation Service
NSCR: non-selective catalytic reduction
NSPS: new source performance standards
NSR: new source review
NTE: not-to-exceed
O₃: ozone
OB: other buses
OBD: on board diagnostics
OBS: observed values
OC: organic carbon
OFP: ozone forming potential
OH: hydroxyl radicals
PAH: polycyclic aromatic hydrocarbons
PAMS: photochemical assessment monitoring stations
PAN: peroxy acetyl nitrate
PASS: Polluting Automobile Scrap and Salvage
PEER: Permit-Exempt Equipment Registration
PERP: Portable Equipment Registration Program
PEV: plug-in electric vehicles

PEVCC: Plug-in Electric Vehicle Coordinating Council
PFC: portable fuel container
PM: particulate matter
PM0.1: ultrafine particles
PM10: particulate matter that is 10 microns or less in diameter
PM2.0: particulate matter that is 2.0 microns or less in diameter
PM2.5: particulate matter that is 2.5 microns or less in diameter
PMF2: Positive Matrix Factorization Model version 2
POA: primary organic aerosols
Ppb: parts per billion
Ppm: parts per million
Ppmv: parts per million volume
PPN: particulate protein nitrogen
PPPA: peak prediction accuracy
PRB: policy relevant background
PROC REG: regression procedure
PST: Pacific Standard Time
PTFE: poly tetra fluoro ethylene
PUC: Public Utilities Commission
PWE: population-weighted exposure
QA: quality assurance
QC: quality control
RAAN: Real-Time Air Quality Advisory Network
RACM: reasonably available control measure
RACT: reasonably available control technology
RARE: Regional Applied Research Effort
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 proposal
RH: relative humidity
ROAR: Real-time Outdoor Activity Risk
ROG: reactive organic gases
ROP: rate of progress
ROS: reactive oxygen species
RRD: respirable road dust
RRF: relative response factors
RSAC: Reactivity Scientific Advisory Committee
RSD: remote sensing device
RTO: regenerative thermal oxidizer

RTP: regional transportation plan
RV: recreational vehicles
RVP: Reid Vapor Pressure
RWC: residential wood combustion
SAFETEA-LU: Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users
SAPRC: State-wide Air Pollution Research Center chemical mechanism
SARMAP: SJVAQS/AUSPEX Regional Modeling Adaptation Project
SASS: Spiral Aerosol Speciation Sampler
SB: school buses
SB: Senate Bill
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
SCGC: Southern California Gas Company
SCM: suggested control measure
SCR: selective catalytic reduction
SCS: C-35 Sustainable Community Strategy
SEP: standard error of prediction
SFBA: San Francisco Bay Area
SFM: state Fire Marshall
SIC: standard industrial classification
SIP: state implementation plan
SJV: San Joaquin Valley
SJVAB: San Joaquin Valley Air Basin
SJVUAPCD: San Joaquin Valley Unified Air Pollution Control District
SLAM: state & local air monitoring system
SLAMS: state and local air monitoring stations
SMAQMD: Sacramento Metropolitan Air Quality Management District
SMAT: Speciated Modeled Attainment Test
SMOKE: Sparse Matrix Object Kernel Emission
SMS: Smoke Management System
SO₂: sulfur dioxide
SO₃: sulfur trioxide
SOA: secondary organic aerosol
SORE: small off-road engines
SO_x: oxides of sulfur
SPM: special purpose monitoring
Study Agency: San Joaquin Valleywide Air Pollution Study Agency
SUV: sport utility vehicles
SWCV: solid waste collection vehicle

TAC: toxic air contaminant
TBD: to be determined
TCM: transportation control measure
TDM: transportation demand management
TOR: thermal optical reflectance
TOT: thermal optical transmittance
Tpd: tons per day
Tpy: tons per year
TRU: transport refrigeration unit
TSD: technical support document
TSM: transportation system management
TSP: total suspended particulates
UB: urban buses
UCD-CIT: University of California-California Institute of Technology
UCSF: University of California San Francisco
UFP: ultrafine particles
UHI: urban heat island
ULNB: ultra-low NO_x burner
USDA: United States Department of Agriculture
USDA-ARS: United States Department of Agriculture-Agricultural Research Service
USG: unhealthy for sensitive groups
UTV: utility terrain vehicles
UV: ultraviolet
Valley: San Joaquin Valley
VCAPCD: Ventura County Air Pollution Control District
VDE: visible dust emissions
VDT: vehicle daily trips
VIP: Voucher Incentive Program
VMT: vehicle miles traveled
VOC: volatile organic compounds
VSL: value of a statistical life
WE: weekend effect
WFU: wildland fire use
WKW: West Kern Water
WOE: Weight of Evidence
WRF: Weather and Research Forecasting Model
WTP: willingness to pay
XRF: X-ray fluorescence
ZEB: zero-emission bus
ZEV: zero-emission vehicle
µg/m³: micrograms per cubic meter