

Code	Cat 1	Cat 2	Date	Location	Source	Investigator	Highlights
A01	source	SO2	91	CA/Baja California	ASU	Nash, T	using lichen as sensitivity guide
A02	source	PM-10/wind	91	Nogales, AZ	ASU	Berman, N	assessed PM10 measures and wind fields
A03	model	PM-10/wind	92	Nogales	ASU	Berman, N	using phys. models in place of field studies and numeric models
A04	model		93	Nogales	ASU	Berman, N	identifies profiles for high pollution days
A05	model		94	Nogales	ASU	Berman; Brazel	identifying pollution movement in complex terrain
A06	model		?	EP	ASU	Fernando, H	physical model of diurnal effects on wind systems
A07	model		91	Border	ASU	Brazel, A	database of long-term climate info on regional scale
A08	source	PM	91	AZ-Sonora	ASU	Buseck, P	compares natural & anthro PM sources
A09	source	PM	94	AZ-Sonora	ASU	Buseck; Anderson	characterized PM data; dust, sulfur, fly ash dominant contaminants
A10	climate	temp/wind	94	Nogales, AZ	ASU	Brazel, A	correlated various data sources
A11	model	movement	97	CJ-EP-SP	ASU	Berman, N	assessing sub-model for vertical mixing
A12	source	CO, HC	94	CJ-EP	CSU/NCVECS	Bohren; Wolff	characterizes border vehicles' emissions
A13	source	PM-10	95	Nuevo Laredo, MX	ITESM	Martinez, E	assessing role of chemical components of PM-10
A14	climate	CO, O3, NOx/season	94	CJ-EP	NMIMT	Popp; Martin	compares regulated compound levels
A15	social	public attitudes	94	CJ	NMSU	Ghosh, S	willingness to pay for air quality
A16	social	translations	94	Border	NMSU	Daily; Ross	translating EPA training into Spanish
A17	climate	wind/temp/humidity	94	Big Bend Nat'l Park	NMSU	Okrasinski; Serna	determined diurnal, seasonal, spatial characteristics
A18	climate	wind	96	Big Bend Nat'l Park	NMSU	Okrasinski, R	characterizing wind flow, comparing models
A19	source		97	Big Bend Nat'l Park	NMSU	Okrasinski, R	identifying specific sources of pollution
A20	social	workshops	95	Border	NMSU	Ross, E	conducted workshops to promote BECC
A21	source	vehicle emissions	96	Calexico-Mexicali	NMSU	Ghosh, S	characterizing border vehicles, willingness to pay
A22	source	PM	97	CJ	NMSU	Bruce, C	data collecting for risk assessments and modeling
A23	source	fuel	94	CA/Baja California	SDSU	Sweedler; Ganster	data gathering for better emission estimation
A24	model		94	CA/Baja California	SDSU	Wright; Griffin	integrated GIS for border issues, collaboration with Mexican reps
A25	social	briefings	94	Border	SDSU	Ganster et al	communication tools, organization collaboration
A26	source	PM	97	Border	SDSU	Sweedler, A	estimating emissions from heavy trucks
A27	model	VOC, NOx, CO	95	EP	Texas A & M	Knowles; Dresser	UAM not sensitive to small changes in mobile emissions
A28	source	CO	81	CJ-EP	UTEP	Applegate	characterizes CO patterns
A28	source	HC, CO	81	EP	UTEP	Jones, A	general discussion of variables which affect emissions
A28	source	Pb, Zn, Cd, As	81	CJ-EP	UTEP	Herbert et al	characterizes TSP, Pb, Zn, Cd, As levels
A29	climate	temp/wind	93	CJ-EP	UTEP	Smith, J	collected wind, temp data; compared to other data sources
A30	climate	wind/temp	94	CJ-EP	UTEP	Smith, J	ground clutter affects readings, characterized seasonal variation
A31	climate	wind/temp	95	CJ-EP	UTEP	Smith, J	continues database development of temp and wind profiles
A32	source	O3, NOx, CO, PM/wind	95	CJ-EP	UTEP	Turner, C	using video/static images to assess areas w/o monitors
A33	source	O3, NOx, CO, PM-10	96	CJ-EP	UTEP	Turner, C	using video/static images to assess areas w/o monitors
A34	source	PM, metals	97	CJ-EP	UTEP	Pingitore	historical assessment of air filters
A35	model	movement	?	EP	UT	Geisler, J	little topographically induced circulation
A36	source	VOC, PM	91	Calex./Mexi.-Nog.	UT	Meuzelaar; Arnold	autos, wood burning main sources for PM
A37	model	emerg. response	94	Nog.-Mexi./Calex.	UT	Hepner, G	using GIS to model contaminant migration
A38	source	PM, Pb	94	CJ-EP	UT	Suruda, A	household dust samples below EPA guides for lead
A39	source	VOC, PM-10	95	B'ville/Matamoros	UT	Meuzelaar, H	characterized VOCs, PM10
A40	source		97	Border	UT	Meuzelaar, H	will establish baseline info on border
A41	climate	O3, VOC	96	Southwest	UT	Watson, A	assess ozone stratification at discrete elevations
A42	source	CO, HC	96	EP	UD	Zhang et al	I/M programs not as successful as predicted
A43	source	CO, HC	97	Mexicali	CSU/NCVECS	Bohren, L.	characterizes border vehicle emissions
A44	source	PM	97	CO	CSU	Sanders et al.	assessed dust suppressant effectiveness and road aggregate loss
A45	source	PM	95	CO	CSU	Addo; Sanders	lignin effective suppressant; no detrimental env. contamination

A46	climate	various/transport	94	EP, NM	NMSU	Kennedy et al.	assessed climatic effects on pollutant transport for baseline data
A47	climate	circulation/O3	96	Border	U of AZ	Comrie, A.	identifies 6 circulation patterns and related variations in O3
A48	source	vehicle	89	CJ-EP	UTEP	Gray et al.	vehicle data, effects of topog./climate and social/political issues
A49	misc	bibliography	97/98	US	NCSU/CTE		EnvRIP provides abstracts for ongoing research
A50	misc	bibliography	97	US	NCSU/CTE		bib relevant to NAAQS new PM and O3 standards
A51	source	survey	98	EP-CJ	TAMU/TTI	Pearson	household survey on VMT, vehicle age, trip distribution
A52	source	mobile	97	TX	TAMU/TTI	Perkinson, D.	quantifying on-road emissions in border counties
A53	social	policy/regs	95	US	<i>Trans. Qtrly</i>	Anderson, J.	CAAA has negligible impact on planning, investment, policy
A54	model	PM	94	CA	<i>Atmos. Env.</i>	Eldering et al.	SCAQs aerosol distribution data used to test grid-based models
A55	model		96	CA	<i>Atmos. Env.</i>	Kumar; Russell	compare meteorological fields using prognostics & diagnostics
A56	source	PM-10	98	Hidalgo/Reynosa	UT	Meuzelaar, H.	plan to fully assess PM-10 episodes at bridge
A57	source	emissions	98	SD/Tijuana	NMSU	Ghosh, S.	expanding database on mobile emissions and willingness to pay
A58	source	various	97	Brownsville, TX	<i>Env. Internat'l</i>	Ellenson, et al.	results from 1993 env. scoping study
A59	source	O3	95	SD	<i>J. of App. Meteorology</i>	Biglerengerler; Brown	1989 results, O3 and precursors transported from LA and local
A60	source	PM	93	southwest	<i>Internat'l J. of Clim.</i>	Davis; Gay	desert southwest has 13 distinct synoptic clusters
A61	source	PM	95	Bullhead City, AZ	<i>J. of Air & Waste Mgmt</i>	Gertler et al.	primary source of PM-10 in area is dust, 2nd is vehicle activity
A62	model	history	97	US	<i>Ann. Rev. Ene. & Env</i>	Russell, A.	reviews air quality modeling
A63	social	policy	98	CA	<i>Trans.</i>	Baldassare et al.	review survey results about reducing solo driving
A64	model	CIT	96	CA	<i>Atmos. Env.</i>	McNair, et al.	using SCAQS data, evaluated CIT model
A65	model	PM	96	AZ	ASU	Kosecki, P.	developed model using RPCS, assessed PM in AZ
A66	misc	datasets	95	CA-Baja	SDSU	Brown & Wright	public domain datasets on border env. Information
A67	social	policy	82	border	<i>Nat. Res. J</i>	Bath, C.R.	overview of transboundary air resource management
E01	EA		88	Luna/NM 11	NMSHTD		State road 11 project shows no significant impacts
E02	EA		92	San. Ter./ Artcraft	Wilson & Company		Artcraft extension will reduce pollution in area
E03	EA		93	San. Ter., NM	Marron...		border crossing station conforms with SIP, no significant impacts
E04	EA		95	SP/SP Drive	Bohannon-Huston		no significant impacts from Sunland Park Drive extension
E05	EA		96	Dona Ana/NM 273	Molzen-Corbin		no significant impacts from NM 273 improvements
E06	EA		96	Anthony/NM 478	JHK & Assoc		air quality along NM 478 improvement area will improve
F01	misc	reference	93	various	EPA		clearinghouse of info on air, good for specific info needs
F02	social	tech transfer	95	Border	EPA		tech transfer center to assist with air quality issues
F02	source	All	95	CJ-EP-SP	EPA		developing air program for Cd Juarez, El Paso, Sunland Park
F02	source	visibility	95	Big Bend Nat'l Park	EPA		gathering data to understand Colorado Plateau haze sources
F03	source	All	97	Border	EPA		DRAFT Border XXI indicators for Air Workgroup
F04	climate	O3	94	CJ-EP-SP	LANL	Barr et al	lidar is an effective remote sensing tool for assessing air quality
F05	misc	bibliography	93	various	FRA/DOT		biblio of lit on env. externalities and transportation
F06	misc	reference	93	various	DOT		provides sources to assist transportation planners
F07	misc	course	94	N/A	DOT/FHA		NHI course on air quality analysis
F08	model	MOBILE	92	various	TRB	Cottrell, W	compares emission differences in free-flow vs. congested conditions
F09	source	PM	80	Southwest	EPA	Record; Baci	undisturbed desert small PM source; unpaved roads lg. source
F10	source	PM-10	89	CJ-EP	EPA	Kemp, M.	saturation monitor screens well; high PM-10 in unmonitored areas
F11	source	exhaust emissions	93	N/A	EPA		assesses several vehicle-related pollutants for carcinogenic effects
F12	source	PM	97	KY	US Army	Gebhart; Hale	assessed dust suppressant effectiveness
F13	source	PM	96	TX	US Army	Gebhart et al.	assessed dust suppressant effectiveness
F14	source	PM	95	CJ-EP	SNL	Einfeld; Church	PM sources: 38% unpaved roads; 19% vehicles
F15	source	O3	97	SD	TRB	Thompson et al	CO, VOCs, Nox emissions expected to be lower in 2020
F16	source	emissions	97	Border	TRB	Jorquera, M.	suggests using episodic emission controls as control strategy
F17	social	policy	97	US	TRB		overview of role that transportation plays in eco and climate change
F18	social	policy	97	US	TRB		discusses research needs, organizational reform, planning

F19	social	policy	95	US	TRB		addresses regulatory, research issues regarding highways and air
F20	model	mobile	97	US	NCHRP	Chatterjee et al.	sums current modeling practice; sensitivity analysis discussed
F21	source	PM	95	US	TRB	Bergeson; Brocka	bentonite effective palliative on limestone based surfaces
F22	source	O3	91	US	NRC		defines O3, IDs trends, discusses measurement techniques
F23	social	policy	98	EP-CJ-SP	EPA		continues support for Joint Advisory Comm. to Air Working Grp.
F23	social	tech transfer	98	Border	EPA		provide info/tech expertise (continuation of F02)
F23	social	training	98	Border	EPA		support infrastructure building to train for air quality mgmt.
F23	source	All	98	Border	EPA		regional air monitoring programs for major border cities
F23	source	congestion	98	Border	EPA		reduce congestion related pollution
F23	source	emissions	98	MX	EPA		developing emission inventories for U.S. and Mexico use
F23	source	O3, PM, CO	98	CA-Baja	EPA		intensive air monitoring study to integrate Mexico into CA O3 study
F24	source	PM	96	TX	USDA	Stout, et al.	assesses ambient dust, FY97 = 10-30 micrograms/m3 average
F25	source	various	97	US	EPA		describes ground transportation industry and affiliated pollutants
F26	source	policy	78	US	FHWA	Pollack et al.	provides info on how to conduct impact analyses
F27	model	travel forecasting	95	US	TRB	DeCorla-Souza, et al.	travel forecasting processes and model requirements tied
F28	source	emissions	95	US	TRB	Anderson, J.	overview of alternative fuel requirements for fleets
F29	model	emissions	95	US	TRB	Venigalla, et al.	trip purpose explains most variance in cold starts
F30	model	emissions	95	US	TRB	Venigalla, et al.	FTP underestimates cold transient mode as portion of travel
F31	model	TCM tools	95	US	TRB	Crawford; Krammes	sensitivity analysis on tools show project descriptors important
F32	model	emissions	95	CA	TRB	Washington; Guensle	CALINE4 & EMFAC7F perform similarly
F33	source	All	98	Border	EPA		outlines indicators for assessing border air quality
F34	social	policy	98	US	NCHRP		improve integration of social, environmental, economic issues
F34	social	policy	98	US	NCHRP		assessing short- and long-term effects from projects
F34	social	regs	98	US	NCHRP		new NAAQS may mean more nonattainment
F34	source	PM	98	US	NCHRP		determine PM2.5 rates from vehicles, various conditions
F35	social	emission values	95	SD/US	TRB	Wang; Santini	develops usable estimates for emission values
F36	misc	eco regions	?	US	CEC		maps of "re-drawn" US based on eco regions
F37	source	emissions	98	US	CEC		seminar papers on full-cost accounting for fossil fuels
F38	social	regs	94	US	NCHRP		summarizes ISTEA air programs, SIP requirements, conformity
F39	source	All	95/96	CA, AZ	EPA		Region 9 pollutant levels decreasing
F40	source	emissions	93	US	EPA		defines/describes remote sensing
F41	source	All	97	US	EPA		emission trends report, annual since 1973
F42	misc	strategic plan	98	US	DOT		strategic plan for research on transportation & environment
F43	misc	research needs	97	US	TRB		synopsis of transportation-related env. research needs
F44	source	O3	96	SD, EP	TRB	Shifan et al.	ozone trends show decrease 1980-1993 for non-attainment areas
F45	source	various	96	CA	TRB	Barth; Tadi	compared to trucks, rail traffic = fewer emissions in I-40 corridor
F46	source	heavy-duty vehicles	96	CA	TRB	Kornfield; Skolnick	assess incentives to buying low-emission vehicles
F47	model	emissions	96	US	TRB	Barth et al.	providing more specific parameters to MOBILE/EMFAC
F48	model	GIS	96	US	TRB	Barth et al.	using GIS to better represent actual driving conditions
F49	social	policy	96	TX	TRB	Euritt, et al.	strategies for reducing emissions, politics are obstacle
F50	model	TCM	98	US	TRB		improve ability to evaluate TCMs and models
F51	model	emissions	72	US	NCHRP	Curry; Anderson	estimating air pollution from highways
F52	social	regs	78	US	NCHRP	Riley, et al.	impact of regs on construction, authors say little impact
F53	model		81	US	NCHRP	Martinez et al.	provides info to improve model evaluation
F54	source	emissions/congestions	97	US	NCHRP	Lomas et al.	discusses methods to quantify congestion
F55	source	emissions	94	US	TRB	Ostria; Lawrence	potential for ITS to reduce or increase emissions
F56	source	emissions	94	US	TRB	Hsu; Sperling	assesses auto retirement programs; results uncertain
F57	source	emissions	94	US	TRB	Martin et al.	finds that continued growth compatible with reducing pollution

F58	model	travel forecasting	94	CA	TRB	Outwater; Loudon	sums travel forecasting guidelines
F59	model	MOBILE	94	US	TRB	DeCorla-Souza, et al.	uses trip-based approach over link-based approach for model
F60	model	CO emissions	94	US	TRB	LeBalnc et al.	examines power enrichment contributions to emissions & modeling
F61	model	TCM	94	US	TRB	Euritt, et al.	links trans. planning with air quality analysis
F62	source	trucks	91	CA	TRB	Nelson et al.	history of truck-related TCMs
F63	source	emissions	91	US/Border	TRB	Krupnick, A.	target high-emitters, impose fees/econ incentives
F64	model	NTESIM; CORSIM	99	US	TRB	Hallmark; Guensler	compare model performance with field data on speed/acceleration
F65	model	emission	99	US	TRB	Botha, et al.	using video data to determine operation mode to predict emissions
F66	social	regs	93	US	DOT/EPA		analyzes air-quality/transportation programs, CAA/ISTEA mandate
O01	source	VOC,CO,NOx	97	CJ	Various	Snow et al	modified MOBILE5a for CJ, trained MX officials in model use
O02	climate	various/O3	96	CJ-EP	Sonoma Tech. Inc.	Roberts et al	summer 1996 ozone measurements including Santa Teresa site
O03	source	All	96	CJ-EP-SP	JAC		JAC integrating data sources
O04	source	All	94	San. Ter., NM	Parsons Brinckerhoff		site alternative analysis for Camino Real facility
O05	model		96	Border	TRIP		assessing air quality impact of NAFTA generated truck traffic
O06	source	mobile	ann.	US	NCVECS		annual conference for practical info on mobile source emissions
O07	source	emissions	97	Mexicali	WGA		developing Mexico emissions inventory methodology
O08	source	emissions	96	Border	WGA		estimating emission levels and improving border crossing efficiency
O09	source	emissions	93	CJ-EP	EDF	Rincon, C.	data on emissions from CJ and EP, text on emissions programs
O10	source	PM	96	NA	ARRB Transport	Foley et al.	general review of dust suppressant effectiveness, application, cost
O11	source	PM	96	CA	DRI	Watson et al.	assessed dust control effectiveness
O12	source	PM	87	NA	Canada		overview of dust suppressants; costs; application
O13	source	locomotive	87	CA	Booz, Allen, Hamilton		trains are NOx, SOx source; tech & operating procedures can reduce
O14	model		95	Border	CEC		US-Mex cooperation for air monitoring/modeling efforts
O15	model	O3	97	EP-CJ-SP	Sonoma Tech. Inc.	Roberts et al.	data analysis from O3 study and conceptual model development
O16	social	policy	98	US	ACEEE	Thomas; DeCicco	env. rating method for light-duty vehicles
O17	social	regs	98	US	STPP		sums TEA-21, including air quality programs
O18	source	O3, CO	89	CA, TX	PIRG		1980s data for 82 cities, incl. borders areas in TX, CA
O19	source	O3	98	TX	PIRG		overview of O3 issue, data for 27 states incl. TX
O20	social	planning	97	CA, AZ, TX	NGA		documents conformity process experiences for 14 states
O21	source	PM	96	US	NRDC	Shprentz, et al.	assessed premature mortality due to PM, city by city
O22	social	regs	98	US	CNIE	Bearden, D.	sums ISTEA/TEA-21 air quality programs CMAQ and STP
O23	social	policy	98	EP-CJ-SP	PnD Task Force	Ketter, R.	discusses Task Force efforts, region's air problems
S01	source	All/O3	93	NM	NMAQB		reports on air quality in NM w/ special section on Dona Ana ozone
S02	source	All	92	EP	TNRCC		summaries of TNRCC monitoring data available
S03	source	locomotive NOx, SOx	97	CA	CARB	Weaver; McGregor	dual-fuel systems in trains could reduce NOx by 70%
S04	source	organic gas	94	LA	CARB		assessed database for nonmethane organic gas effects
S05	climate	movement	94	CA	CARB		radar wind profilers can monitor winds and pollutant transport
S06	source	All	90	CA	CARB		10 orgs. cooperated to gather intensive data on contaminants
S07	source	PM-10	90	CA	CARB		from 40 sources in CA collected PM-10 data
S08	source	off-road emissions	97	CA	CARB		collected data from off road vehicles to plug into model OFFROAD
S09	model	speed vs. time	96	CA	CARB		developed speed vs time driving cycle, compared to FTP
S10	source	O3	97	CA, MX	CARB		\$5million to collect air data in CA/MX
S11	source	All	89	CA	CARB		reference doc for SCAQS, includes overview of SCAQS
S12	source	O3	95	CA	CARB		lidar can measure O3 concentrations up to 3,000 m aloft
S13	model	PM, HC	95	CA	CARB		PM summer source=dust/vehicles, in fall =exhaust
S14	source	remote sensing	94	CA	CARB		remote sensing can be used to ID high emitters
S15	model	PM-10	94	EP-CJ-SP	TNRCC	Dattner, S.	dispersion vs. receptor modeling, results inconclusive
S16	source	PM-10	96	CA	SCAQ		Coachella Valley requests attainment status

S17	source	PM	97	AZ	AZDOT	Cowherd, et al.	roads contribute to dust problem, solutions suggested
S18	model	emissions	98	TX	TNRCC	Neece, J.	data on emission levels in TX
S19	source	emissions	90	CA	CARB		assessed Taurus, Camry to refine emissions inventory
S20	misc		96/97	TX, Border	TGLO		annual forum on econ, env., and energy in the border region
S21	social	policy	98	CJ	various		CJ air quality plan, 40 priority actions, emission inventory data,
S22	social	regs/policy	95	CA-Baja	CALTRANS		handbook of guides, requirements for env. Compliance