

# 8. References

## Executive Summary

EPA (1999) *National Air Pollutant Emissions Trends Report, 1900-1998*. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC.

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*. Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

IPCC (1996) *Climate Change 1995: The Science of Climate Change*. Intergovernmental Panel on Climate Change; J.T. Houghton, L.G. Meira Filho, B.A. Callander, N. Harris, A. Kattenberg, and K. Maskell, eds.; Cambridge University Press. Cambridge, U.K.

Powell, D.S., J.L. Faulkner, D.R. Darr, Z. Zhu, and D.W. MacCleery (1993) *Forest Resources of the United States, 1992*. Gen. Tech. Rep. RM-234. Fort Collins, CO: Rocky Mountain Forest and Range Experiment Station, Forest Service, U.S. Department of Agriculture, 132 p.

## Introduction

BEA (1998) *Survey of Current Business*. Bureau of Economic Analysis, Department of Commerce, Table 2A, p. 152, August. (Available on the internet at <http://www.bea.doc.gov/bea.dn1.htm>)

U.S. Census Bureau (1998) *Historical National Population Estimates: July 1, 1900 to July 1, 1997*. Department of Commerce, Washington D.C. April 2, 1998. (Available on the internet at <http://www.census.gov/population/estimates/nation/popclockest.txt>)

EPA (1999) *National Air Pollutant Emissions Trends Report, 1900-1999*. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC.

IPCC (1999) *Aviation and the Global Atmosphere*. Intergovernmental Panel on Climate Change; Penner, J.E., et al., eds.; Cambridge University Press. Cambridge, U.K.

IPCC (1996) *Climate Change 1995: The Science of Climate Change*. Intergovernmental Panel on Climate Change; J.T. Houghton, L.G. Meira Filho, B.A. Callander, N. Harris, A. Kattenberg, and K. Maskell, eds.; Cambridge University Press. Cambridge, U.K.

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*. Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Keeling, C.D. and T.P. Whorf (1998) *A Compendium of Data on Global Change*. Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, Oak Ridge, TN. (Available on the internet at <http://cdiac.esd.ornl.gov/trends/co2/contents.htm>)

## **Changes in this Year's Inventory**

AGA (1999) *Gas Facts 1990-1998*. American Gas Association, Washington, DC.

Air Force (1998) Air Force Document AFPAM23-221. 1 May.

API (1996) *Calculation Workbook for Oil and Gas Production Equipment Fugitive Emissions*. American Petroleum Institute, Publication No. 4638.

API (1999) *Basic Petroleum Data Book, 1997 and 1999*. American Petroleum Institute, Washington, DC.

API and GRI. E&P Tank Software Package, Version 1.0.

ASTM (1996) Standard Specification for Quicklime, Hydrated Lime, and Limestone for Chemical Uses, Designation: C911-96, Table 1.

BEA (1999) Unpublished BE-36 survey data, Bureau of Economic Analysis (BEA), U.S. Department of Commerce.

- CAPP (1992) *A Detailed Inventory of CH<sub>4</sub> and VOC Emissions From Upstream Oil & Gas Operations in Alberta*. Canadian Association of Petroleum Producers, Canada, Vols. 1-3. March 1992.
- CAPP (1993) *Options for Reducing Methane and VOC Emissions from Upstream Oil & Gas Operations*. Canadian Association of Petroleum Producers, Canada.
- Choe, J.S., P.J. Cook, and F.P. Petrocelli (1993) "Developing N<sub>2</sub>O Abatement Technology for the Nitric Acid Industry." Prepared for presentation at the 1993 ANPSG Conference. Air Products and Chemicals, Inc., Allentown, PA.
- CMA (1999) *U.S. Chemical Industry Statistical Handbook*. Chemical Manufacturers Association, Washington, DC.
- EIA (1995) *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, Annual Report 1990-1997*. Energy Information Administration, U.S. Department of Energy, Washington, DC.
- EIA (1996) *Emissions of Greenhouse Gases in the United States 1995*. Energy Information Administration, U.S. Department of Energy, Washington, DC.
- EIA (1997) *Monthly Energy Review*. Energy Information Administration, U.S. Department of Energy, Washington, DC. (Available on the Internet at <[www.eia.doe.gov/emeu/mer](http://www.eia.doe.gov/emeu/mer)>)
- EIA (1998a) *Petroleum Supply Annual 1990-1998*. Energy Information Administration, U.S. Department of Energy, Washington, DC.
- EIA (1998b) *Natural Gas Annual 1997*. Energy Information Administration, U.S. Department of Energy, Washington, D.C. DOE/EIA-0131(98). (Available on the Internet at <http://www.eia.doe.gov>.)
- EIA (1999a) *Annual Energy Review 1998*. Energy Information Administration, U.S. Department of Energy, Washington, DC, DOE/EIA- 0384(97) July.
- EIA (1999b) *Emissions of Greenhouse Gas Emissions in the United States 1998*. Energy Information Administration, U.S. Department of Energy, Washington, DC, *DRAFT*, DOE/EIA- 0573(98) October.
- EIA (1999c) *Fuel Oil and Kerosene Sales 1997*. Energy Information Administration, U.S. Department of Energy, Washington, DC, DOE/EIA-0535(97).
- EIA (1999d) *Monthly Energy Review*. Energy Information Administration, U.S. Department of Energy, Washington, DC, DOE/EIA- 0035(98) July.
- EIA (1999e) *Natural Gas Annual 1998*. Energy Information Administration, U.S. Department of Energy, Washington, DC, DOE/EIA 0131(99).
- EPA (1999a) *Estimates of Methane Emissions from the U.S. Oil Industry (Draft Report)*. Office of Air and Radiation, U.S. Environmental Protection Agency, Washington, DC, EPA-68-W7-0069.
- EPA (1999b) *National Air Pollutant Emissions Trends, 1900-1998*. U.S. Environmental Protection Agency, Emission Factors and Inventory Group, Office of Air Quality Planning and Standards. Research Triangle Park, NC.
- FAO (1999) *FAOSTAT Statistics Database 1999*. United Nations Food and Agriculture Organization. (Available on the internet at <http://apps.fao.org/cgi-bin/nph-db.pl?subset=agriculture>.)
- FHWA (1999) *Draft 1998 Highway Statistics*. Federal Highway Administration, U.S. Department of Transportation. Washington, D.C, FHWA-PL-96-023-annual.
- Freedonia Group, Inc. (1999) *Enhanced Oil Recovery Applications for Carbon Dioxide, 1989-2008*. Report 1091: Industrial Gases To 2003, Record 20.
- Liptay, K., et al (1998) "Use of Stable Isotopes to Determine Methane Oxidation in Landfill Cover Soils," *JGR Atmospheres*, 103D, 8243-8250pp.
- Males, Eric (1999) Personal communication between Heike Mainhardt of ICF Consulting and Eric Males of the National Lime Association, Arlington, VA. October (Tel: 703/908-0772).
- MMS (1995) *Gulf of Mexico Air Quality Study*. Final Report. Minerals Management Service, U.S. Department of the Interior, Washington, DC.
- MMS (1999) Personal communication on 8/31/99. Minerals Management Service, U.S. Department of the Interior, New Orleans, LA.
- OGJ (1998a) *Oil and Gas Journal 1990-1998*, Pipeline Economics Issue, late August.
- OGJ (1998b) *Oil and Gas Journal 1990-1998*, Worldwide Refining Issue, late December.
- Radian (1996a) *Methane Emissions from the Natural Gas Industry, V7: Blow and Purge Activities*. Prepared for the Gas Research Institute and EPA. April 1996.
- Radian (1996b) *Methane Emissions from the Natural Gas Industry, V11: Compressor Driver Exhaust*. Prepared for GRI and EPA. April 1996.
- Radian (1996c) *Methane Emissions from the Natural Gas Industry, V12: Pneumatic Devices*. Prepared for GRI and EPA. April 1996.
- Radian (1996d) *Methane Emissions from the Natural Gas Industry, V13: Chemical Injection Pumps*. Prepared for GRI and EPA. April 1996.
- Radian (1996e) *Methane Emissions from the US Petroleum Industry*. Draft. Prepared for EPA. June 1996.

Schwarzkopf, Florian (1985). *Lime Burning Technology*. June 1985 (2<sup>nd</sup> Edition), Table 2.

USDA (1994a) *Field Crops, Final Estimates 1987-1992*. National Agricultural Statistics Service, Agricultural Statistics Board, U.S. Department of Agriculture, Washington, D.C.

USDA (1994b) *Natural Resources Inventory Digital Data*. Natural Resources Conservation Service, Washington, D.C.

USDA (1998) *Field Crops, Final Estimates 1992-1997*. National Agricultural Statistics Service, Agricultural Statistics Board, U.S. Department of Agriculture, Washington, D.C.

USDA (1999a) *Cattle*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, D.C. July 16, 1999.

USDA (1999b) *Cattle on Feed 1995-1998*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, D.C.

USDA (1999c) *Cattle, Final Estimates 1994-1998*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, D.C.

USDA (1999d) *Hogs and Pigs*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, D.C. March 26, 1999 (June 25, 1999).

USDA (1999e) *Hogs and Pigs*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, D.C. June 25, 1999.

USDA (1999f) *Hogs and Pigs, Final Estimates 1993-97*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, D.C. 1999.

USDA (1999g) *Livestock Slaughter*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, D.C. January 22, 1999.

USDA (1999h) *Milk Cows and Milk Production—Final Estimates 1993-1997*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, D.C. January 19, 1999.

USDA (1999i) *Poultry Production and Value, Final Estimates 1994-97*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, D.C., 1999.

USDA (1999j) *Poultry Production and Value Summary*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, D.C. April 29, 1999.

USDA (1999k) *Layers and Egg Production Annual*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, D.C. January 30, 1995 (January 31, 1996; January 31, 1997; January 29, 1998; January 28, 1999).

USDA (1999L) *Turkeys, Final Estimates by State and United States, 1994-97*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, D.C., 1999.

USDA (1999m) *Turkeys*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, D.C. January 15, 1999.

USDA (1999n) *Sheep and Goats, Final Estimates 1994-98*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, D.C., 1999.

USDA (1999o) *1997 Census of Agriculture*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, D.C.

USGS (1999) *Mineral Industry Surveys: Crushed Stone and Sand and Gravel in the First Quarter of 1999*. U.S. Geological Survey, Reston, VA.

## Energy

### Carbon Dioxide Emissions from Fossil Fuel Combustion

BEA (1998) Unpublished *BE-36 survey data*. Bureau of Economic Analysis (BEA), U.S. Department of Commerce.

Bechtel (1993) *A Modified EPRI Class II Estimate for Low NO<sub>x</sub> Burner Technology Retrofit*. Prepared for Radian Corporation by Bechtel Power, Gaithersburg, Maryland. April.

DESC (1999) Unpublished data from the Defense Fuels Automated Management System (DFAMS), Defense Energy Support Center, Defense Logistics Agency, U.S. Department of Defense, Washington, D.C.

DOC (1998) Unpublished “*Report of Bunker Fuel Oil Laden on Vessels Cleared for Foreign Countries*”. Form-563, Foreign Trade Division, Bureau of the Census, U.S. Department of Commerce.

DOE and EPA (1999) *Report to the President on Carbon Dioxide Emissions from the Generation of Electric Power in the United States*, U.S. Department of Energy and U.S. Environmental Protection Agency, 15 October.

DOE (1998) *Transportation Energy Data Book*. Office of Transportation Technologies, Edition 18, Table 2.6 Center for Transportation Analysis, Energy Division, Oak Ridge National Laboratory, ORNL-6941.

DOE (1997) *Transportation Energy Data Book*. Office of Transportation Technologies, Edition 17, Table 2.9 Center for Transportation Analysis, Energy Division, Oak Ridge National Laboratory, ORNL-6919.

DOE (1996) *Transportation Energy Data Book*. Office of Transportation Technologies, Edition 16, Table 2.10, Center for Transportation Analysis, Energy Division, Oak Ridge National Laboratory, ORNL-6898.

DOE (1995) *Transportation Energy Data Book*. Office of Transportation Technologies, Edition 15, Table 2.7. Center for Transportation Analysis, Energy Division, Oak Ridge National Laboratory, ORNL-6865.

DOE (1994) *Transportation Energy Data Book*. Office of Transportation Technologies, Edition 14, Table 2.6 & 2.7. Center for Transportation Analysis, Energy Division, Oak Ridge National Laboratory, ORNL-6798.

DOE (1993) *Transportation Energy Data Book*. Office of Transportation Technologies, Edition 13, Table 2.7. Center for Transportation Analysis, Energy Division, Oak Ridge National Laboratory, ORNL-6743.

DOT/BTS (1998) *Fuel Cost and Consumption*, Federal Aviation Administration, U.S. Department of Transportation, Bureau of Transportation Statistics, Washington, DC, DAI-10.

EIA (1999a) *Annual Energy Review 1998*. Energy Information Administration, U.S. Department of Energy, Washington, DC. July, DOE/EIA-0384(98)-annual.

EIA (1999b) *Electric Power Annual 1997, Volume I*. Energy Information Administration, U.S. Department of Energy, Washington, DC, DOE/EIA-0348(97)/1-annual.

EIA (1999c) *Emissions of Greenhouse Gases in the United States 1998*. Energy Information Administration, U.S. Department of Energy, Washington, DC. Draft. October 5, 1999, DOE/EIA-0535(98)-annual.

EIA (1999d) *Fuel Oil and Kerosene Sales 1998*. Energy Information Administration, U.S. Department of Energy, Washington, DC, DOE/EIA-0535(98)-annual.

EIA (1999d) *International Energy Annual 1996*. Energy Information Administration, U.S. Department of Energy, Washington, DC, DOE/EIA-0219(96)-annual.

EIA (1999e) *Monthly Energy Review*. Energy Information Administration, U.S. Department of Energy, Washington, DC. July, DOE/EIA-0035(98)-monthly.

EIA (1998) *U.S. Coal Supply and Demand: 1997 Review: by B.D. Hong*. Energy Information Administration, U.S. Department of Energy, Washington, DC.

EIA (1997) *Manufacturing Consumption of Energy 1994*, DOE/EIA-0512(94), Energy Information Administration, U.S. Department of Energy, Washington, DC, December.

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization

for Economic Co-Operation and Development, International Energy Agency.

Marland, G. and A. Pippin (1990) “*United States Emissions of Carbon Dioxide to the Earth’s Atmosphere by Economic Activity*”. Energy Systems and Policy, 14(4):323.

## Stationary Source Fossil Fuel Combustion (excluding CO<sub>2</sub>)

EIA (1999a) *Annual Energy Review 1997*. Energy Information Administration, U.S. Department of Energy, Washington, DC, DOE/EIA-0384(98)-annual.

EIA (1999b) *Monthly Energy Review*. Energy Information Administration, U.S. Department of Energy, Washington, DC. July. DOE/EIA-0035(98)-monthly.

EPA (1999) *National Air Pollutant Emissions Trends, 1900-1998*. Emission Factors and Inventory Group, Office of Air Quality Planning and Standards, EPA. Research Triangle Park, NC.

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

## Mobile Source Fossil Fuel Combustion (excluding CO<sub>2</sub>)

Barton, Peter and Jackie Simpson (1994) “The effects of aged catalysts and cold ambient temperatures on nitrous oxide emissions.” Mobile Source Emissions Division (MSED), Environment Canada, MSED Report #94-21.

BEA (1999) Unpublished BE-36 survey data, Bureau of Economic Analysis (BEA), U.S. Department of Commerce.

Dasch, Jean Muhlbalder (1992) *Journal of the Air and Waste Management Association*. “Nitrous Oxide Emissions from Vehicles,” 42(1):63-67, January.

DESC (1999) Unpublished data from the Defense Fuels Automated Management System (DFAMS), Defense Energy Support Center, Defense Logistics Agency, U.S. Department of Defense, Washington, D.C.

DOC (1999) “*Report of Bunker Fuel Oil Laden on Vessels Cleared for Foreign Countries*,” Form-563, Foreign Trade Division, Bureau of the Census, U.S. Department of Commerce. (Unpublished)

DOT/BTS (1998) *Fuel Cost and Consumption*. Federal Aviation Administration, U.S. Department of Transportation, Washington, DC, monthly reports, DAI-10.

EIA (1999a) *Annual Energy Review*. Energy Information Administration, U.S. Department of Energy. Washington, D.C. July, DOE/EIA-0384(98).

EIA (1999b) *Fuel Oil and Kerosene Sales 1998*. Energy Information Administration, U.S. Department of Energy, Washington, DC, DOE/EIA-0535(98)-annual.

EPA (1999) *National Air Pollutant Emissions Trends, 1900-1998*. U.S. Environmental Protection Agency, Emission Factors and Inventory Group, Office of Air Quality Planning and Standards, EPA. Research Triangle Park, NC.

EPA (1998) *Emissions of Nitrous Oxide from Highway Mobile Sources: Comments on the Draft Inventory of U.S. Greenhouse Gas Emissions and Sinks, 1990-1996*. Office of Mobile Sources, Assessment and Modeling Division, August, EPA420-R-98-009. (Available on the internet at <http://www.epa.gov/oms/climate.htm>)

EPA (1997) *Mobile Source Emission Factor Model (MOBILE5a)*. U.S. Environmental Protection Agency, Office of Mobile Sources, EPA. Ann Arbor, Michigan.

FAA (1999) *FAA Aviation Forecast, Fiscal Years 1998-2000*. Federal Aviation Administration, U.S. Department of Transportation, Washington, DC. Table 25: General Aviation Aircraft Fuel Consumption. (Available on the internet at <http://api.hq.faa.gov/forca98/fortab2.htm>)

FHWA (1999) *Draft 1998 Highway Statistics*. Federal Highway Administration, U.S. Department of Transportation. Washington, D.C, report FHWA-PL-96-023-annual.

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Marland, G. and A. Pippin (1990) "United States Emissions of Carbon Dioxide to the Earth's Atmosphere by Economic Activity," *Energy Systems and Policy*, 14(4):323.

Prigent, Michael and Gerard De Soete (1989) "Nitrous oxide N<sub>2</sub>O in engines exhaust gases—a first appraisal of catalyst impact," Society of Automotive Engineers, SAE Paper 890492.

Smith, Lawrence R. and Penny M. Carey (1982) "Characterization of exhaust emissions from high mileage catalyst-equipped automobiles," Society of Automotive Engineers, SAE Paper 820783.

Urban, Charles M. and Robert J. Garbe (1980) "Exhaust Emissions from Malfunctioning Three-Way Catalyst-Equipped Automobiles," Society of Automotive Engineers, SAE Paper 79696.

Weaver, Christopher S. and Lit-Mian Chan (1996) "Mobile source emission factors for global warming gases," Draft Final Report, 24 June, submitted to ICF, Inc. by Engine, Fuel, and Emissions Engineering, Inc., Sacramento, CA.

## Coal Mining

EPA (1993) *Anthropogenic Methane Emissions in the United States: Estimates for 1990, Report to Congress*. U.S. Environmental Protection Agency, Air and Radiation, April.

EIA (1999) *Coal Industry Annual 1991-1999*. U.S. Department of Energy, Energy Information Administration, Washington, DC., Table 3.

## Natural Gas Systems

AGA (1998) *Gas Facts 1990-1998*. American Gas Association, Washington, D.C.

AGA (1999) *Personal Communication with Paul Pierson* (telephone: 202-824-7133). American Gas Association, Washington, DC.

DOI (1997) *Offshore Development Activity*. U.S. Department of Interior, Minerals Management Service Internet site. (Available on the Internet at <http://www.mms.gov>.)

DOI (1998, 1999) *Personal Communication with Mary Hoover* (telephone: 703-787-1028), Minerals Management Service, U.S. Department of Interior, Washington, DC.

EIA (1998) *Natural Gas Annual 1997*. Energy Information Administration, U.S. Department of Energy. DOE/EIA-0131(98). Washington, DC. (Available on the Internet at <http://www.eia.doe.gov>.)

EIA (1999) *Natural Gas Monthly July 1999*, Energy Information Administration, U.S. Department of Energy. DOE/EIA-0130(99/07). Washington, DC. (Available on the Internet at <http://www.eia.doe.gov>.)

EPA/GRI (1996) *Methane Emissions from the Natural Gas Industry, Volume 1: Executive Summary*. Prepared by Harrison, M., T. Shires, J. Wessels, and R. Cowgill, eds., Radian International LLC for National Risk Management Research Laboratory, Air Pollution Prevention and Control Division, Research Triangle Park, NC, EPA-600/R-96-080a.

GSAM (1997) *Gas Systems Analysis Model*. Federal Energy Technology Center, U.S. Department of Energy. Washington, D.C.

IPAA (1999) *The Oil & Gas Producing Industry in Your State 1990-1999*. Independent Petroleum Association of America.

OPS (2000) Personal Communication with Roger Little (202-266-4595), Office of Pipeline Safety, Department of Transportation, Washington, DC.

## Petroleum Systems

API (1996) *Calculation Workbook for Oil and Gas Production Equipment Fugitive Emissions*. American Petroleum Institute; Publication No. 4638.

API (1997 and 1999) *Basic Petroleum Data Book*. American Petroleum Institute, Washington, DC.

API and GRI. *E&P Tank Software Package*, Version 1.0.

CAPP (1992) *A Detailed Inventory of CH<sub>4</sub> and VOC Emissions From Upstream Oil & Gas Operations in Alberta*. Canadian Association of Petroleum Producers, Canada. Vols. 1-3. March 1992.

CAPP (1993) *Options for Reducing Methane and VOC Emissions from Upstream Oil & Gas Operations*. Canadian Association of Petroleum Producers, Canada.

DOS (1997) *Climate Action Report: 1997 Submission of the United States of America Under the United Nations Framework Convention on Climate Change*. U.S. Department of State, Washington, DC.

Doud, Ted. Personal communication. Pipeline Systems Incorporated, Walnut Creek, California.

EIA (1995) *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, Annual Report 1990-1997*. Energy Information Administration, U.S. Department of Energy, Washington, DC.

EIA (1996) *Emissions of Greenhouse Gases in the United States 1995*. Energy Information Administration, U.S. Department of Energy, Washington, DC.

EIA (1997) *Monthly Energy Review*. Energy Information Administration, U.S. Department of Energy, Washington, DC. (Available on the Internet at <[www.eia.doe.gov/emeu/mer](http://www.eia.doe.gov/emeu/mer)>)

EIA (1998) *Petroleum Supply Annual 1990-1998*. Energy Information Administration, U.S. Department of Energy, Washington, DC.

Energy Resources Company (1977) *Atmospheric Emissions from Offshore Oil and Gas Production and Development*. Prepared for EPA. June 1977.

Entropy Limited (1989) *Aboveground Storage Tank Survey*. Prepared for the American Petroleum Institute. April 1989.

EPA (1993a) *Anthropogenic Methane Emissions in the US: Estimates for 1990, Report to Congress*. Office of Air and Radiation, U.S. Environmental Protection Agency, Washington, DC.

EPA (1993b) *Opportunities to Reduce Anthropogenic Methane Emissions in the United States, Report to Congress*. Office of Air and Radiation, U.S. Environmental Protection Agency, Washington, DC.

EPA (1995) *Compilation of Air Pollution Emission Factors*. Office of Air and Radiation, U.S. Environmental Protection Agency, Research Triangle Park, North Carolina. AP-42.

EPA (1996) *Best Management Practice III*. Natural Gas STAR 1996 Workshop and Implementation Guide, Office of Air and Radiation, U.S. Environmental Protection Agency, Washington, DC.

EPA (1997) *Installing Vapor Recovery Units on Crude Oil Storage Tanks*. Natural Gas STAR Program, draft Lessons Learned. Office of Air and Radiation, U.S. Environmental Protection Agency, Washington, DC.

EPA (1999) *Estimates of Methane Emissions from the U.S. Oil Industry (Draft Report)*. Office of Air and Radiation, U.S. Environmental Protection Agency, Washington, DC.

Gallagher, Terry. 1999. Personal Communication. Chicago Bridge and Iron. July 1999.

ICF Kaiser International (1996) *Estimation of Activity Factors for the Natural Gas Exploration and Production Industry in the United States*. Prepared for the Environmental Protection Agency. August 1996.

MMS (1995) *Gulf of Mexico Air Quality Study*. Final Report. Minerals Management Service, U.S. Department of the Interior, Washington, DC.

MMS (1999) Personal communication on 8/31/99. Minerals Management Service, U.S. Department of the Interior, New Orleans, LA.

ODS (1999) Personal communication on 9/21/99. Offshore Data Services, Houston. TX.

OGJ (1998a) *Oil and Gas Journal 1990-1998*, Pipeline Economics Issue, late August.

OGJ (1998b) *Oil and Gas Journal 1990-1998*, Worldwide Refining Issue, late December.

Pipeline Systems Incorporated (1989) *Annual Methane Emission Estimate of the Natural Gas and Petroleum Systems in the US*. Prepared for ICF Incorporated, Washington, DC.

Radian (1977) *Revision of Emission Factors for Petroleum Refining*. Prepared for EPA. October 1977.

Radian (1992) *Global Emissions of Methane from Petroleum Sources (#DR 140)*. Prepared for American Petroleum Institute, Washington, DC.

Radian (1996a) *Methane Emissions from the Natural Gas Industry, V7: Blow and Purge Activities*. Prepared for the Gas Research Institute and EPA. April 1996.

Radian (1996b) *Methane Emissions from the Natural Gas Industry, VII: Compressor Driver Exhaust*. Prepared for GRI and EPA. April 1996.

Radian (1996c) *Methane Emissions from the Natural Gas Industry, VI2: Pneumatic Devices*. Prepared for GRI and EPA. April 1996.

Radian (1996d) *Methane Emissions from the Natural Gas Industry, VI3: Chemical Injection Pumps*. Prepared for GRI and EPA. April 1996.

Radian (1996e) *Methane Emissions from the US Petroleum Industry*. Draft. Prepared for EPA. June 1996.

Radian (1996f) *Methane and Carbon Dioxide Emissions Estimate From U.S. Petroleum Sources*. Prepared for API. July 1996.

Rayman, Ron (1997) Personal communication. Dresser Textsteam, Houston, Texas (manufacturer of chemical injection pumps).

Star Environmental (1993) *Fugitive Hydrocarbon Emissions from Oil and Gas Production Operations*. Prepared for API. API Document No 4589. December 1993.

Star Environmental (1994) *Emission Factors for Oil & Gas Operations*. Prepared for API. API Document No. 4615. December 1994.

Star Environmental (1996) *Calculation Workbook for Oil and Gas Production Equipment Fugitive Emissions*. Prepared for API. API Document No. 4638. July 1996.

True, Warren R. "U.S. Pipelines Continue Gains into 1996." *Oil & Gas Journal*, 25 November 1996: 39-58.

United States Army Corps of Engineers (1995, 1996, and 1997) *Waterborne Commerce of the United States 1995, Part 5: National Summaries*. U.S. Army Corps of Engineers, Washington, DC.

## Natural Gas Flaring and Criteria Pollutant Emissions from Oil and Gas Activities

Barns, D. and Edmonds, J. (1990) "An Evaluation of the Relationship Between the Production and Use of Energy and Atmospheric Methane Emissions." DOE/NBB-0088P. Pacific Northwest Laboratory. Richland, WA.

EIA (1999) *Natural Gas Annual 1998*, DOE/EIA 0131(99)-annual, Energy Information Administration, U.S. Department of Energy, Washington, DC.

EPA (1999) *National Air Pollutant Emissions Trends, 1900-1998*. U.S. Environmental Protection Agency, Emission Factors and Inventory Group, Office of Air Quality Planning and Standards. Research Triangle Park, NC.

## International Bunker Fuels

USAF (1998) U.S. Air Force document AFPAM23-221, May 1, 1998.

BEA (1999) Unpublished BE-36 survey data, Bureau of Economic Analysis (BEA), U.S. Department of Commerce.

DESC (1999) Unpublished data from the Defense Fuels Automated Management System (DFAMS), Defense Energy Support Center, Defense Logistics Agency, U.S. Department of Defense, Washington, D.C.

DOC (1998) Unpublished "Report of Bunker Fuel Oil Laden on Vessels Cleared for Foreign Countries," Form-563, Foreign Trade Division, Bureau of the Census, U.S. Department of Commerce.

DOT/BTS (1999) *Fuel Cost and Consumption*, monthly reports, DAI-10, Federal Aviation Administration, U.S. Department of Transportation, Washington, DC.

EIA (1999) *Annual Energy Review*, DOE/EIA-0384(98). Energy Information Administration, U.S. Department of Energy. Washington, D.C. July.

EPA (1998) *National Air Pollutant Emission Trends Procedures Document, Sections 1, 4, and 6, 1985-1996, Projections 1999-2010*, Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency, EPA-454/R-98-008, June 1998.

EPA (1999) *National Air Pollutant Emissions Trends, 1900-1998*. U.S. Environmental Protection Agency, Emission Factors and Inventory Group, Office of Air Quality Planning and Standards. Research Triangle Park, NC.

IPCC (1999) *Aviation and the Global Atmosphere*, Published for the Intergovernmental Panel on Climate Change, Cambridge, UK.

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

NASA (1996) *Scheduled Civil Aircraft Emission Inventories for 1992: Database Development and Analysis*, Prepared for Langley Research Center, NASA Contractor Report # 4700, April.

## Wood Biomass and Ethanol Consumption

EIA (1999) *Annual Energy Review*. Energy Information Administration, U.S. Department of Energy. Washington, D.C. July. Tables 10.2 and Tables 10.3. DOE/EIA-0384(98).

EIA (1997) *Renewable Energy Annual*. Energy Information Administration, U.S. Department of Energy. Washington, D.C. March. DOE/EIA-0603(96).

EIA (1994) *Estimates of U.S. Biomass Energy Consumption 1992*. Energy Information Administration, U.S. Department of Energy. Washington, D.C. May. DOE/EIA-0548(92).

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

OTA (1991) *Changing by Degrees: Steps to Reduce Greenhouse Gases*. Office of Technology Assessment, U.S. Government Printing Office. Washington, D.C. February. OTA-0-482.

## Industrial Processes

### Cement Manufacture

IPCC/OECD/IEA (1999) *Good Practice in Inventory Preparation for Industrial Processes and the New Gases*. Draft Meeting Report, Washington, DC: Intergovernmental Panel on Climate Change, Organization for Economic Co-Operation and Development, International Energy Agency.

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

IPCC (1996) *Climate Change 1995: The Science of Climate Change*, Intergovernmental Panel on Climate Change; J.T. Houghton, L.G. Meira Filho, B.A. Callander, N. Harris, A. Kattenberg, and K. Maskell, eds.; Cambridge University Press. Cambridge, U.K.

van Oss, Hendrick (1999). 1998 masonry production data were taken from a personal communication between Joe Casola, ICF Consulting and Hendrick van Oss, Cement Commodity Specialist, U.S. Geological Survey, Reston, VA, September. (Tel: 703/648-7712).

USGS (1999) *Mineral Industry Surveys: Cement in December 1998*. U.S. Geological Survey, Reston, VA.

USGS (1998) *Minerals Yearbook: Cement Annual Report 1997*. U.S. Geological Survey, Reston, VA.

USGS (1997) *Minerals Yearbook: Cement Annual Report 1996*. U.S. Geological Survey, Reston, VA.

USGS (1996) *Minerals Yearbook: Cement Annual Report 1995*. U.S. Geological Survey, Reston, VA.

USGS (1995) *Cement: Annual Report 1993*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, D.C. June.

USGS (1992) *Cement: Annual Report 1990*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, D.C. April.

### Lime Manufacture

ASTM (1996) Standard Specification for Quicklime, Hydrated Lime, and Limestone for Chemical Uses, Designation: C911-96, Table 1.

Males, Eric (1999) Personal communication between Heike Mainhardt of ICF Consulting and Eric Males of the National Lime Association, Arlington, VA. October (Tel: 703/908-0772).

Miller, Michael (1995) 1993 and 1994 data were taken from a personal communication between Colin Polsky of ICF, Inc. and Michael Miller, U.S. Department of the Interior, Bureau of Mines. Washington, D.C. August. (Tel: 202/501-9409).

Schwarzkopf, Florian (1985). *Lime Burning Technology* (2<sup>nd</sup> Edition). June 1985, Table 2.

USGS (1999) *Mineral Commodity Summaries, 1999*. U.S. Geological Survey, Reston, VA.

USGS (1999) *Minerals Yearbook: Lime Annual Report 1998*. U.S. Geological Survey, Reston, VA.

USGS (1997) *Minerals Yearbook: Lime Annual Report 1996*. U.S. Geological Survey, Reston, VA.

USGS (1995) *Minerals Yearbook: Lime Annual Report 1994*. U.S. Geological Survey, Reston, VA.

USGS (1994) *Lime: Annual Report 1993*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, D.C. September.

USGS (1992) *Lime: Annual Report 1991*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, D.C. November.

### Limestone and Dolomite Use

EIA (1999) Form EIA-767 "Steam Electric Plant Operation and Design Report." U.S. Department of Energy, Energy Information Administration. Washington, DC.

EIA (1998) Form EIA-767 "Steam Electric Plant Operation and Design Report." U.S. Department of Energy, Energy Information Administration. Washington, DC.

EIA (1997) Form EIA-767 "Steam Electric Plant Operation and Design Report." U.S. Department of Energy, Energy Information Administration. Washington, DC.

USGS (1999) *Mineral Commodity Summaries, 1999*. U.S. Geological Survey, Reston, VA

USGS (1999) *Mineral Industry Surveys: Crushed Stone and Sand and Gravel in the First Quarter of 1999*. U.S. Geological Survey, Reston, VA.

USGS (1999) *Mineral Industry Surveys: Crushed Stone and Sand and Gravel in the Fourth Quarter of 1998*. U.S. Geological Survey, Reston, VA.

USGS (1997) *Minerals Yearbook: Crushed Stone Annual Report 1996*. U.S. Geological Survey, Reston, VA.

USGS (1996) *Minerals Yearbook: Crushed Stone Annual Report 1995*. U.S. Geological Survey, Reston, VA.

USGS (1995) *Crushed Stone: Annual Report 1993*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, D.C. January.

USGS (1993) *Crushed Stone: Annual Report 1991*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, D.C. March.

## Soda Ash Manufacture and Consumption

C&EN (1999) "Soda ash planned with new process." *Chemical and Engineering News*. March 15, 1999.

USGS (1999) *Mineral Commodity Summaries, 1999*. U.S. Geological Survey, Reston, VA

USGS (1999) *Mineral Industry Surveys: Soda Ash in January 1999*. U.S. Geological Survey, Reston, VA.

USGS (1998) *Minerals Yearbook: Soda Ash Annual Report 1997*. U.S. Geological Survey, Reston, VA.

USGS (1994) *Soda Ash: Annual Report 1993*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, D.C. July.

USGS (1993) *Soda Ash: Annual Report 1992*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, D.C. August.

## Carbon Dioxide Consumption

Freedonia Group, Inc. (1999) *Report 1091: Industrial Gases To 2003, Record 4, Carbon Dioxide Shipments and Production, 1989-2008*. Cleveland, OH.

Freedonia Group, Inc. (1999) *Report 1091: Industrial Gases To 2003, Record 20, Enhanced Oil Recovery Applications for Carbon Dioxide, 1989-2008*. Cleveland, OH.

Freedonia Group, Inc. (1996) *Carbon Dioxide Merchant Markets Report 1990-1995*. Cleveland, OH.

Freedonia Group, Inc. (1994) *Industry Study No. 564: Carbon Dioxide*. The Freedonia Group, Incorporated. Cleveland, OH.

Freedonia Group Inc. (1991) *Carbon Dioxide*. Business Research Report B286. Cleveland, OH, November, p. 46.

Hangebrauk, R.P., Borgwardt, R.H., and Geron, C.D. (1992) *Carbon Dioxide Sequestration*. U.S. Environmental Protection Agency, August.

Ita, Paul (1997) Personal communication between Heike Mainhardt of ICF, Inc. and Paul Ita of Freedonia Group, Inc. October. (Tel: 216/921-6800).

## Iron and Steel Production

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

USGS (1999) *Mineral Commodity Summaries, 1999*. U.S. Geological Survey, Reston, VA

USGS (1998) *Minerals Yearbook: Iron and Steel Annual Report 1997*. U.S. Geological Survey, Reston, VA.

USGS (1997) *Minerals Yearbook: Iron and Steel Annual Report 1996*. U.S. Geological Survey, Reston, VA.

USGS (1996) *Minerals Yearbook: Iron and Steel Annual Report 1995*. U.S. Geological Survey, U.S. Reston, VA.

## Ammonia Manufacture

Census Bureau (1999) "Facts & Figures for the Chemical Industry," *Chemical and Engineering News*, Bureau of the Census, United States Department of Commerce, Vol. 77 (26), June 1999.

Census Bureau (1998) "Facts & Figures for the Chemical Industry," *Chemical and Engineering News*, Bureau of the Census, United States Department of Commerce, Vol. 76 (26), June 1998.

EPA (1997) *National Air Pollutant Emissions Trends Report, 1900-1996*. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC.

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

## Ferroalloy Production

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

USGS (1999) *Mineral Industry Surveys: Silicon in December 1998*. U.S. Geological Survey, Reston, VA.

USGS (1998) *Minerals Yearbook: Silicon Annual Report 1997*. U.S. Geological Survey, Reston, VA.

USGS (1997) *Minerals Yearbook: Silicon Annual Report 1996*. U.S. Geological Survey, Reston, VA.

USGS (1996) *Minerals Yearbook: Silicon Annual Report 1995*. U.S. Geological Survey, Reston, VA.

USGS (1995) *Minerals Yearbook: Silicon Annual Report 1994*. U.S. Geological Survey, Reston, VA.

USGS (1994) *Silicon: Annual Report 1993*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, D.C.

USGS (1993) *Silicon: Annual Report 1992*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, D.C.

USGS (1992) *Silicon: Annual Report 1991*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, D.C.

USGS (1991) *Silicon: Annual Report 1990*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, D.C.

#### Petrochemical Production

CMA (1999) *U.S. Chemical Industry Statistical Handbook*. Chemical Manufacturers Association. Washington, DC.

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

### Silicon Carbide Production

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

USGS (1999) *Minerals Yearbook: Manufactured Abrasives Annual Report 1998*. U.S. Geological Survey, Reston, VA.

USGS (1998) *Minerals Yearbook: Manufactured Abrasives Annual Report 1997*. U.S. Geological Survey, Reston, VA.

USGS (1997) *Minerals Yearbook: Manufactured Abrasives Annual Report 1996*. U.S. Geological Survey, Reston, VA.

USGS (1996) *Minerals Yearbook: Manufactured Abrasives Annual Report 1995*. U.S. Geological Survey, Reston, VA.

USGS (1995) *Minerals Yearbook: Manufactured Abrasives Annual Report 1994*. U.S. Geological Survey, Reston, VA.

USGS (1994) *Manufactured Abrasives: Annual Report 1993*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, D.C.

USGS (1993) *Manufactured Abrasives: Annual Report 1992*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, D.C.

USGS (1992) *Manufactured Abrasives: Annual Report 1991*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, D.C.

USGS (1991) *Manufactured Abrasives: Annual Report 1990*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, D.C.

### Adipic Acid Production

*Chemical Market Reporter* (1998) "Chemical Profile: Adipic Acid." *Chemical Market Reporter*, June 15, 1998.

C&EN (1996) "Facts and figures for the chemical industry." *Chemical and Engineering News*, 74(25):38. June 24.

C&EN (1995) "Production of Top 50 Chemicals Increased Substantially in 1994." *Chemical and Engineering News*, 73(15): 17. April 10.

C&EN (1994) "Top 50 Chemicals Production Rose Modestly Last Year." *Chemical & Engineering News*, 72(15): 13. April 11.

C&EN (1993) "Top 50 Chemicals Production Recovered Last Year." *Chemical & Engineering News*, 71(15): 11. April 12.

C&EN (1992) "Production of Top 50 Chemicals Staggers in 1991." *Chemical and Engineering News*, 70(15): 17. April 13.

CW (1999) "Product focus: adipic acid/adiponitrile." *Chemical Week*, March 10, 1999, pg. 31.

Radian (1992) *Nitrous Oxide Emissions from Adipic Acid Manufacturing - Final Report*. Radian Corporation, Rochester, NY.

Reimer, R.A., Slaten, C.S., Seapan, M., Koch, T.A., and Triner, V.G. (1999a) "Implementation of Technologies for Abatement of N<sub>2</sub>O Emissions Associated with Adipic Acid Manufacture." Presented at the Second International Symposium on Non-CO<sub>2</sub> Greenhouse Gases, September 8-10, 1999, Noordwijkerhout, The Netherlands.

Reimer, Ron (1999). Personal communication between Ron Reimer of DuPont, USA and Heike Mainhardt of ICF, Consulting, USA. May 19, 1999.

Reimer, R.A., Slaten, C.S., Seapan, M. (1994) "Abatement of N<sub>2</sub>O Emissions Produced in the Adipic Acid Industry." *Environmental Progress*, 13(2): 134-137. May, 1994.

Thiemens, M.H. and W.C. Trogler (1991) "Nylon production; an unknown source of atmospheric nitrous oxide." *Science*: 251:932-934.

## Nitric Acid Production

C&EN (1999) "Facts and figures." *Chemical and Engineering News*, 77(26):44. June 1999.

EPA (1997) *Compilation of Air Pollutant Emission Factors, AP-42*, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, October.

Reimer, R.A., R.A. Parrett, and C.S Slaten (1992) *Abatement of N<sub>2</sub>O Emissions Produced in Adipic Acid Manufacture*. Proceedings of the 5<sup>th</sup> International Workshop on Nitrous Oxide Emissions. Tsukuba, Japan. July 1-3.

Choe, J.S., P.J. Cook, and F.P. Petrocelli (1993) "Developing N<sub>2</sub>O Abatement Technology for the Nitric Acid Industry." Prepared for presentation at the 1993 ANPSG Conference. Air Products and Chemicals, Inc., Allentown, PA.

## Substitution of Ozone Depleting Substances

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

## Aluminum Production

Abrahamson, D. (1992) "Aluminum and Global Warming." *Nature*, 356: 484.

Corns, R.R. (1990) "Sulfur Hexafluoride Successfully Degasses and Fluxes Aluminum," *Light Metals Age*, v. 28, pp. 11-12, December.

Drexel University Project Team (1996) *Energy Analysis of 108 Industrial Processes*. The Fairmont Press, Lilburn, GA, p. 282.

EPA (1993) Proceedings: *Workshop on Atmospheric Effects, Origins, and Options for Control of Two Potent Greenhouse Gases: CF<sub>4</sub> and C<sub>2</sub>F<sub>6</sub>*, Sponsored by the U.S. Environmental Protection Agency, Global Change Division, Office of Air and Radiation, April 21-22.

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Maiss, M. and C.A.M. Brenninkmeijer (1998) "Atmospheric SF<sub>6</sub>: Trends, Sources and Prospects," *Environmental Science and Technology*, v. 32, n. 20, pp. 3077-3086.

USGS (1999) *Mineral Commodity Summaries, 1999*. U.S. Geological Survey, Reston, VA.

USGS (1999) *Mineral Industry Surveys: Aluminum in January 1999*. U.S. Geological Survey, Reston, VA.

USGS (1998) *Minerals Yearbook: Aluminum Annual Report 1997*. U.S. Geological Survey, Reston, VA.

USGS (1995) *Mineral Industry Surveys: Aluminum Annual Review 1994*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, D.C. May.

Waite, P. and D. Bernard (1990) "Recent Experience with the Use of Sulphur Hexafluoride for Aluminum Fluxing," Light Metals 1990 Conference, *The Minerals, Metals & Materials Society*, 18-22 February.

## HCFC-22 Production

Rand, S., Branscome, M., and Ottinger, D. (1999) "Opportunities for the Reduction of HFC-23 Emissions from the Production of HCFC-22." In: *Proceedings from the Joint IPCC/TEAP Expert Meeting On Options for the Limitation of Emissions of HFCs and PFCs*. Petten, the Netherlands, 26-28 May 1999.

## Semiconductor Manufacture

Semiconductor Industry Association (1997) *The National Technology Roadmap for Semiconductors 1997 Edition*, Semiconductor Equipment and Materials International (1999) *International Fabs on Disk*, July 1999.

VLSI Research Inc.(1998) "Worldwide Silicon Demand by Wafer Size, Linewidth and Device Type, 1992 – 2003," Presentation 2.1.2-1, 2.1.2-2, and 2.1.2-3, June 1998.

## Electrical Transmission and Distribution

Ko, M., N. D. Sze, W. C. Wang, G. Shia, A. Goldman, F. J. Murcay, D. G. Murcay, and C. P. Rinsland (1993) "Atmospheric Sulfur Hexafluoride: Sources, Sinks and Greenhouse Warming," *J. Geophysical Research*, 98, 10499-10507.

Maiss, M. and C.A.M. Brenninkmeijer (1998) "Atmospheric SF<sub>6</sub>: Trends, Sources and Prospects," *Environmental Science and Technology*, v. 32, n. 20, pp. 3077-3086.

## Magnesium Production and Processing

Gjestland, H. and D. Magers (1996) "Practical Usage of Sulphur [Sulfur] Hexafluoride for Melt Protection in the Magnesium Die Casting Industry," #13, *1996 Annual Conference Proceedings*, Ube City, Japan, International Magnesium Association.

NIAR (1993) *SF<sub>6</sub> as a Greenhouse Gas: An Assessment of Norwegian and Global Sources and Global Warming Potential*, Norwegian Institute for Air Research, December.

## Industrial Sources of Criteria Pollutants

EPA (1999) *National Air Pollutant Emissions Trends Report, 1900-1998*, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC.

EPA (1997) *Compilation of Air Pollutant Emission Factors, AP-42*, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, October.

## Solvent Use

EPA (1998) *National Air Pollutant Emissions Trends Report, 1900-1997*, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC.

EPA (1997) *Compilation of Air Pollutant Emission Factors, AP-42*, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, October.

## Agriculture

### Enteric Fermentation

Baldwin, R.L., J.H.M. Thornley, and D.E. Beever (1987a) "Metabolism of the lactating cow. II. Digestive elements of a mechanistic model." *Journal of Dairy Research* 54:107-131.

Baldwin, R.L., J. France, D.E. Beever, M. Gill, and J.H.M. Thornley (1987b) "Metabolism of the lactating cow. III. Properties of mechanistic models suitable for evaluation of energetic relationships and factors involved in the partition of nutrients." *Journal of Dairy Research* 54:133-145.

Crutzen, P.J., I. Aselmann, and W. Seiler (1986) "Methane Production by Domestic Animals, Wild Ruminants, Other Herbivores, Fauna, and Humans." *Tellus* 38B:271-284.

EPA (1993) *Anthropogenic Methane Emissions in the United States: Estimates for 1990, Report to Congress*, U.S. Environmental Protection Agency, Office of Air and Radiation, April.

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

USDA (1999a) *Cattle*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, D.C. July 16, 1999.

USDA (1995a, 1996, 1997, 1998a, 1999b) *Cattle on Feed*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January 1995 (1996, 1997, 1998, 1999).

USDA (1995b) *Cattle, Final Estimates 1989-93*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January.

USDA (1999c) *Cattle, Final Estimates 1994-1998*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. 1999.

USDA (1995c) *Cattle Highlights*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. February 3.

USDA (1995d) *Dairy Outlook*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. February 27.

USDA (1998b, 1998c) *Hogs and Pigs*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. September 25, 1998 (December 29, 1998).

USDA (1999d, 1999e) *Hogs and Pigs*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. March 26, 1999 (June 25, 1999).

USDA (1994a) *Hogs and Pigs, Final Estimates 1988-92*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. December.

USDA (1999f) *Hogs and Pigs, Final Estimates 1993-97*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC.

USDA (1999g) *Livestock Slaughter*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January 22.

USDA (1999h) *Milk Cows and Milk Production—Final Estimates 1993-1997*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January 19.

USDA (1994b) *Sheep and Goats, Final Estimates 1988-93*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January 31.

USDA (1999i) *Sheep and Goats, Final Estimates 1994-98*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. 1999.

## Manure Management

ASAE (1999) *ASAE Standards 1999*, 46<sup>th</sup> Edition, American Society of Agricultural Engineers, St. Joseph, MI.

DOC (1995) *1992 Census of Agriculture*. Geographic Area Series 1C, U.S. Department of Commerce, Bureau of the Census, January. (Available on CD ROM)

EPA (1992) *Global Methane Emissions from Livestock and Poultry Manure*. U.S. Environmental Protection Agency, Office of Air and Radiation. February.

EPA (1993) *Anthropogenic Methane Emissions in the United States: Estimates for 1990, Report to Congress*. U.S. Environmental Protection Agency, Office of Air and Radiation. April.

FAO (1999) *FAOSTAT Statistics Database, 1999*. United Nations Food and Agriculture Organization. <<http://apps.fao.org/cgi-bin/nph-db.pl?subset=agriculture>>, Accessed September 7, 1999.

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

USDA (1999a) *Cattle*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. July 16.

USDA (1995a, 1996a, 1997a, 1998a, 1999b) *Cattle on Feed*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January, 1995 (1996, 1997, 1998, 1999).

USDA (1995b) *Cattle, Final Estimates 1989-93*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January.

USDA (1999c) *Cattle, Final Estimates 1994-1998*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC.

USDA (1995c) *Cattle Highlights*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. February 3.

USDA (1995d) *Dairy Outlook*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. February 27.

USDA (1998b, 1998c) *Hogs and Pigs*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. September 25, 1998 (December 29, 1998).

USDA (1999d, 1999e) *Hogs and Pigs*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. March 26, 1999 (June 25, 1999).

USDA (1994a) *Hogs and Pigs, Final Estimates 1988-92*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. December.

USDA (1999f) *Hogs and Pigs, Final Estimates 1993-97*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC.

USDA (1995e) *Poultry Production and Value, Final Estimates 1989-93*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January.

USDA (1999g) *Poultry Production and Value, Final Estimates 1994-97*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC.

USDA (1999h) *Poultry Production and Value Summary*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. April 29.

USDA (1995f, 1996b, 1997b, 1998d, 1999i) *Layers and Egg Production Annual*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January 30, 1995 (January 31, 1996; January 31, 1997; January 29, 1998; January 28, 1999).

USDA (1995f) *Turkeys, Final Estimates 1988-93*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. March.

USDA (1999j) *Turkeys, Final Estimates by State and United States, 1994-97*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC.

USDA (1999k) *Turkeys*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January 15.

USDA (1994b) *Sheep and Goats, Final Estimates 1988-93*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January 31.

USDA (1999l) *Sheep and Goats, Final Estimates 1994-98*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC.

USDA (1999m) *1997 Census of Agriculture (CD-ROM)*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC.

USDA (1999n) *1997 Census of Agriculture*, U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, D.C.

## Rice Cultivation

Beck, B. (1999) Telephone conversations between Catherine Leining of ICF Consulting and Bruce Beck. Agronomy Specialist, Missouri Cooperative Extension Service, 3 June.

Cicerone R.J., Delwiche, C.C., Tyler, S.C., and Zimmerman, P.R. (1992) "Methane Emissions from California Rice Paddies with Varied Treatments." *Global Biogeochemical Cycles* 6:233-248.

Guethle, D. (1999) Telephone conversations between Payton Deeks of ICF Consulting and David Guethle, Agronomy Specialist, Missouri Cooperative Extension Service, 6 August.

Holzappel-Pschorn, A., Conrad, R., and Seiler, W. (1985) "Production, Oxidation, and Emissions of Methane in Rice Paddies." *FEMS Microbiology Ecology* 31:343-351.

IPCC/UNEP/OECD/IEA (1995) *IPCC Guidelines for National Greenhouse Gas Inventories*. Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*. Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Klosterboer, A. (1997) Telephone conversation between Holly Simpkins of ICF Incorporated and Arlen Klosterboer, Texas A & M University. 1 December.

Klosterboer, A. (1999a) Telephone conversations between Catherine Leining of ICF Consulting and Arlen Klosterboer, Extension Agronomist, Texas A & M University, 10 June.

Klosterboer, A. (1999b) Telephone conversations between Payton Deeks of ICF Consulting and Arlen Klosterboer, Extension Agronomist, Texas A & M University, 12 August.

Lindau, C.W. and Bollich, P.K. (1993) "Methane Emissions from Louisiana First and Ratoon Crop Rice." *Soil Science* 156:42-48.

Lindau, C.W., Bollich, P.K., and DeLaune, R.D. (1995) "Effect of Rice Variety on Methane Emission from Louisiana Rice." *Agriculture, Ecosystems and Environment* 54:109-114.

Lindau, C.W., Bollich, P.K., DeLaune, R.D., Mosier, A.R., and Bronson, K.F. (1993) "Methane Mitigation in Flooded Louisiana Rice Fields." *Biology and Fertility of Soils* 15:174-178.

Lindau, C.W., Bollich, P.K., DeLaune, R.D., Patrick, W.H. Jr., and Law, V.J. (1991) "Effect of Urea Fertilizer and Environmental Factors on CH<sub>4</sub> Emissions from a Louisiana, USA Rice Field." *Plant Soil* 136:195-203.

Lindau, C.W., Wickersham, P., DeLaune, R.D., Collins, J.W., Bollich, P.K., Scott, L.M., and Lambremont, E.N. (1998) "Methane and Nitrous Oxide Evolution and <sup>15</sup>N and <sup>226</sup>RA Uptake as Affected by Application of Gypsum and Phosphogypsum to Louisiana Rice." *Agriculture, Ecosystems and Environment* 68:165-173.

Linscombe, S. (1999a) Telephone conversations between Catherine Leining of ICF Consulting and Steve Linscombe, Research Agronomist, Rice Research Station in Crowley, LA, 3 June.

Linscombe, S. (1999b) Telephone conversations between Payton Deeks of ICF Consulting and Steve Linscombe, Research Agronomist, Rice Research Station in Crowley, LA, 9 August.

Mayhew, W. (1997) Telephone conversation between Holly Simpkins of ICF Incorporated and Walter Mayhew, University of Arkansas, Little Rock, 24 November.

Saichuk, J. (1997) Telephone conversation between Holly Simpkins of ICF Incorporated and John Saichuk, Louisiana State University, 24 November.

Sass, R.L., Fisher, F.M., Harcombe, P.A., and Turner, F.T. (1990) "Methane Production and Emissions in a Texas Rice Field." *Global Biogeochemical Cycles* 4:47-68.

Sass, R.L., Fisher, F.M., Harcombe, P.A., and Turner, F.T. (1991a) "Mitigation of Methane Emissions from Rice Fields: Possible Adverse Effects of Incorporated Rice Straw." *Global Biogeochemical Cycles* 5:275-287.

Sass, R.L., Fisher, F.M., Turner, F.T., and Jund, M.F. (1991b) "Methane Emissions from Rice Fields as Influenced by Solar Radiation, Temperature, and Straw Incorporation." *Global Biogeochemical Cycles* 5:335-350.

Sass, R.L., Fisher, F.M., and Wang, Y.B. (1992) "Methane Emission from Rice Fields: The Effect of Floodwater Management." *Global Biogeochemical Cycles* 6:249-262.

Scardaci, S. (1997) Telephone conversation between Holly Simpkins of ICF Incorporated and Steven Scardaci, Farm Advisor, University of California Cooperative Extension, 2 December.

Scardaci, S. (1999a) Telephone conversation between Catherine Leining of ICF Consulting and Steven Scardaci, Farm Advisor, University of California Cooperative Extension, 3 June.

Scardaci, S. (1999b) Telephone conversation between Payton Deeks of ICF Consulting and Steven Scardaci, Farm Advisor, University of California Cooperative Extension, 10 August.

Schueneman, T. (1997) Telephone conversation between Barbara Braatz of ICF Incorporated and Tom Schueneman, County Extension Agent, Florida. 7 November.

Schueneman, T. (1999a) Telephone conversation between Catherine Leining of ICF Consulting and Tom Schueneman, Palm Beach County Agricultural Extension Agent, Florida, 7 June.

Schueneman, T. (1999b) Telephone conversation between Payton Deeks of ICF Consulting and Tom Schueneman, Palm Beach County Agricultural Extension Agent, Florida, 10 August.

Schueneman, T. (1999c) Telephone conversation between John Venezia of ICF Consulting and Tom Schueneman, Palm Beach County Agricultural Extension Agent, Florida, 27 August.

Slaton, N. (1999a) Phone conversation between Catherine Leining of ICF Consulting and Nathan Slaton, Extension Agronomist - Rice, University of Arkansas Division of Agriculture Cooperative Extension Service, 3 June.

Slaton, N. (1999b) Phone conversation between Payton Deeks of ICF Consulting and Nathan Slaton, Extension Agronomist - Rice, University of Arkansas Division of Agriculture Cooperative Extension Service, 6 August.

Stevens, G. (1997) Telephone conversation between Holly Simpkins of ICF Incorporated and Gene Stevens, Extension Specialist, Missouri Commercial Agriculture Program, Delta Research Center, 17 December.

Street, J. (1997) Telephone conversation between Holly Simpkins of ICF Incorporated and Dr. Joe Street, Mississippi State University, Delta Research and Extension Center and Delta Branch Station, 1 December.

Street, J. (1999a) Telephone conversation between Catherine Leining of ICF Consulting and Joe Street, Mississippi State University, Delta Research Center, 8 June.

Street, J. (1999b) Telephone conversation between Payton Deeks of ICF Consulting and Joe Street, Mississippi State University, Delta Research Center, 6 August.

USDA (1999a) *Crop Production 1998 Summary*. National Agricultural Statistics Service, Agricultural Statistics Board, U.S. Department of Agriculture, Washington, D.C.

USDA (1999b). *U.S. Department of Agriculture's National Agriculture Statistics Data—Historical Data*. (Available at <<http://www.usda.gov/nsass/pubs/histdata.htm>>Crop Data>by state, historical> arl198897.csv> or, <<http://usda.mannlib.cornell.edu/data-sets/crops/95111/>>) Accessed September 9.

## Agricultural Soil Management

AAPFCO (1995) *Commercial Fertilizers 1995*. Association of American Plant Food Control Officials, University of Kentucky, Lexington, KY.

AAPFCO (1996) *Commercial Fertilizers 1996*. Association of American Plant Food Control Officials, University of Kentucky, Lexington, KY.

AAPFCO (1997) *Commercial Fertilizers 1997*. Association of American Plant Food Control Officials, University of Kentucky, Lexington, KY.

AAPFCO (1998) *Commercial Fertilizers 1998*. Association of American Plant Food Control Officials, University of Kentucky, Lexington, KY.

ASAE (1999) *ASAE Standards 1999*. American Society of Agricultural Engineers, St. Joseph, MI, 46<sup>th</sup> Edition

Barnard, G.W. and L.A. Kristoferson (1985) *Agricultural Residues as Fuel in the Third World*. Technical Report No. 5. Earthscan, London, UK.

Bastian, R. (1999) Telephone conversation between Marco Alcaraz of ICF Consulting and Robert Bastian at the Office of Water, United States Environmental Protection Agency, August.

DOC (1987) *Census of Agriculture*. U.S. Department of Commerce, Bureau of Census, U.S. Government Printing Office, Washington, DC.

DOC (1995) *1992 Census of Agriculture (CD-Rom), Geographic Area Series 1C*. U.S. Department of Commerce, Bureau of the Census, January.

EPA (1993) *Federal Register. Part II. Standards for the Use and Disposal of Sewage Sludge; Final Rules*. U.S. Environmental Protection Agency, 40 CFR Parts 257, 403 and 503.

FAO (1996) *FAO Production Yearbook, 1995*. Vol.47, United Nations Food and Agriculture Organization, Rome, Italy.

FAO (1999) *FAOSTAT Statistical Database*. United Nations Food and Agriculture Organization, Rome, Italy. Available on the internet at <<http://apps.fao.org/cgi-bin/nph-db.pl?subset=agriculture>>, Accessed 7 September

IPCC (1999a) Estimation of Direct N<sub>2</sub>O Emissions From Agricultural Soils. In: *Good Practice in Inventory Preparation. Agricultural Sources of Methane and Nitrous Oxide*. Draft Version.

IPCC (1999b) Estimation of Indirect N<sub>2</sub>O Emissions From Agricultural Soils. In: *Good Practice in Inventory Preparation. Agricultural Sources of Methane and Nitrous Oxide*. Draft Version.

- IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*. Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.
- Mosier, A. (1998) Email communication between Karen Lawson of ICF Consulting and Arvin Mosier of the United States Department of Agriculture, Colorado. 1 April.
- Mosjidis, J. (1999) Telephone communication between Marco Alcaraz of ICF Consulting and Dr. Jorge Mosjidis of the Department of Agronomy and Soils, Auburn University. August.
- National Research Council. (1996) *Use of Reclaimed Water and Sludge in Food Crop Production*. Committee on the Use of treated Municipal Wastewater Effluents and Sludge in the Production of Crops for Human Consumption, Water Science and Technology Board, Commission on Geosciences, Environment and Resources. National Academy Press, Washington, DC.
- Peterson, G. (1999) Telephone communication between Marco Alcaraz of ICF Consulting and Dr. Gary Peterson of the Agricultural Research System Waste Management and Forage Service at Mississippi State University. August.
- Safely, L.M., M.E. Casada, J.W. Woodbury, K.F. Roos (1992) *Global Methane Emissions from Livestock and Poultry Manure*. EPA/400/1-91/048, Office of Air and Radiation, U.S. Environmental Protection Agency. February.
- Smith, R. (1999) Telephone communication between Marco Alcaraz of ICF Consulting and Dr. Richard Smith of the Agricultural Research Service Forage Service at Michigan State University. August.
- Strehler, A. and W. Stützel (1987) Biomass Residues. In: *Biomass* Hall, D.O. and R.P. Overend (eds.). John Wiley and Sons, Ltd. Chichester, UK.
- Taylor, R.L. and R. Smith (1995) An Introduction to Grassland Horticulture. In: *Forages*, Vol.1, Barnes, R.F., B.A. Miller and C.G. Nelson, eds. Iowa State University Press.
- Terry, D. (1997) Telephone communication between Beverly Grossman of ICF Consulting and David Terry of the American Association of Plant Food Control Officials, University of Kentucky, Lexington, KY.
- TVA (1990) *Fertilizer Summary Data 1990*. Tennessee Valley Authority, Muscle Shoals, AL.
- TVA (1992a) *Commercial Fertilizers 1992*. Tennessee Valley Authority, Muscle Shoals, AL.
- TVA (1992b) *Fertilizer Summary Data 1992*. Tennessee Valley Authority, Muscle Shoals, AL.
- TVA (1994) *Commercial Fertilizers 1994*. Tennessee Valley Authority, Muscle Shoals, AL.
- USDA (1994a) *Field Crops: Final Estimates, 1987-1992*: Statistical Bulletin Number 896. U.S. Department of Agriculture, National Agricultural Statistics Service, GPO, Washington, DC.
- USDA (1994b) *Hogs and Pigs, Final Estimates 1988-92*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. December.
- USDA (1994c) *Sheep and Goats, Final Estimates 1988-93*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January 31.
- USDA (1994d) *1992 National Resources Inventory*. U.S. Department of Agriculture, National Resources Conservation Service, Washington, DC. (Digital Data)
- USDA (1995a) *Cattle, Final Estimates 1989-93*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January.
- USDA (1995b, 1996a, 1997a, 1998a, 1999b) *Cattle on Feed*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January, 1995 (1996, 1997, 1998, 1999).
- USDA (1995c) *Cattle Highlights*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. 3 February.
- USDA (1995d) *Dairy Outlook*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. 27 February.
- USDA (1999d, 1999e) *Hogs and Pigs*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. March, 1995 (26 March 1999, 25 June 1999.)
- USDA (1995e, 1996b, 1997b, 1998b, 1999j) *Layers and Egg Production Annual*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. 30 January 1995 (31 January 1996, 31 January 1997, 29 January 1998, 28 January 1999).
- USDA (1995f) *Poultry Production and Value, Final Estimates 1989-93*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. January.
- USDA (1995g) *Turkeys, Final Estimates 1988-93*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. March.
- USDA (1997c) *Crop Production Summary Data. 1992-1996*, U.S. Department of Agriculture, available via internet at <<http://www.usda.gov/nass/pubs/histdata.htm>>
- USDA (1998c) *Crop Production 1997 Summary*. National Agricultural Statistics Service, Agricultural Statistics Board, U.S. Department of Agriculture, Washington, DC.
- USDA (1999a) *Cattle*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. 16 July.

USDA (1999c) *Cattle, Final Estimates 1994-1998*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC.

USDA (1999f) *Hogs and Pigs, Final Estimates 1993-97*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC.

USDA (1999g) *Poultry Production and Value, Final Estimates 1994-97*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC.

USDA (1999h) *Crop Production 1998 Summary*. National Agricultural Statistics Service, Agricultural Statistics Board, U.S. Department of Agriculture, Washington, DC.

USDA (1999i) *Poultry Production and Value Summary*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. 29 April.

USDA (1999k) *Turkeys, Final Estimates by State and United States, 1994-97*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC.

USDA (1999l) *Turkeys*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. 15 January.

USDA (1999m) *Sheep and Goats, Final Estimates 1994-98*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC.

USDA (1999n) *1997 Census of Agriculture*. U.S. Department of Agriculture, National Agriculture Statistics Service, Washington, DC. (Available on CD ROM)

## Agricultural Residue Burning

Barnard, G., and Kristoferson, L. (1985) *Agricultural Residues as Fuel in the Third World*. Earthscan Energy Information Programme and the Beijer Institute of the Royal Swedish Academy of Sciences. London, England.

Cibrowski, P. (1996) Telephone conversation between Heike Mainhardt of ICF Incorporated and Peter Cibrowski, Minnesota Pollution Control Agency. 29 July.

EPA (1992) *Prescribed Burning Background Document and Technical Information Document for Prescribed Burning Best Available Control Measures*. EPA-450/2-92-003. Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency. Research Triangle Park, N.C.

EPA (1994) *International Anthropogenic Methane Emissions: Estimates for 1990, Report to Congress*. EPA 230-R-93-010. Office of Policy Planning and Evaluation, U.S. Environmental Protection Agency. Washington, D.C.

Fife, L. (1999) Telephone conversation between Catherine Leining of ICF Consulting and Les Fife, President and General Manager, Fife Environmental. 9 June.

Guethle, D. (1999) Telephone conversation between Payton Deeks of ICF Consulting and David Guethle, Agronomy Specialist, Missouri Cooperative Extension Service. 6 August.

ILENR (1993) *Illinois Inventory of Greenhouse Gas Emissions and Sinks: 1990*. Office of Research and Planning, Illinois Department of Energy and Natural Resources. Springfield, IL.

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Jenkins, B.M., Turn, S.Q., and Williams, R.B. (1992) Atmospheric emissions from agricultural burning in California: determination of burn fractions, distribution factors, and crop specific contributions. *Agriculture, Ecosystems and Environment*, 38:313-330.

Klosterboer, A. (1999a) Telephone conversation between Catherine Leining of ICF Consulting and Arlen Klosterboer, Extension Agronomist, Texas A & M University, 10 June.

Klosterboer, A. (1999b) Telephone conversation between Payton Deeks of ICF Consulting and Arlen Klosterboer, Extension Agronomist, Texas A & M University, 12 August.

Linscombe, S. (1999a) Telephone conversation between Catherine Leining of ICF Consulting and Steve Linscombe, Research Agronomist, Rice Research Station in Crowley, LA, 3 June.

Linscombe, S. (1999b) Telephone conversation between Payton Deeks of ICF Consulting and Steve Linscombe, Research Agronomist, Rice Research Station in Crowley, LA, 9 August.

Noller, J. (1996) Telephone conversation between Heike Mainhardt of ICF Incorporated and John Noller, Missouri Department of Natural Resources. 30 July.

Oregon Department of Energy (1995) *Report on Reducing Oregon's Greenhouse Gas Emissions: Appendix D Inventory and Technical Discussion*. Oregon Department of Energy. Salem, OR.

Schueneman, T. (1999a) Telephone conversation between Catherine Leining of ICF Consulting and Tom Schueneman, Palm Beach County Agricultural Extension Agent, Florida, 7 June.

Schueneman, T. (1999b) Telephone conversation between Payton Deeks of ICF Consulting and Tom Schueneman, Palm Beach County Agricultural Extension Agent, Florida, 10 August.

## Land-Use Change and Forestry

- Schueneman, T. (1999c) Telephone conversation between John Venezia of ICF Consulting and Tom Schueneman, Palm Beach County Agricultural Extension Agent, Florida, 2 September.
- Slaton, N. (1999a) Phone conversation between Catherine Leining of ICF Consulting and Dr. Nathan Slaton, Extension Agronomist - Rice, University of Arkansas Division of Agriculture Cooperative Extension Service, 3 June.
- Slaton, N. (1999b) Phone conversation between Payton Deeks of ICF Consulting and Dr. Nathan Slaton, Extension Agronomist - Rice, University of Arkansas Division of Agriculture Cooperative Extension Service, 6 August.
- Smith, T. (1999) Telephone conversation between John Venezia of ICF Incorporated and Terrie Smith, Office Manager, Sem-Chi Rice. 1 September.
- Street, J. (1999a) Telephone conversation between Catherine Leining of ICF Consulting and Joe Street, Mississippi State University, Delta Research Center, 8 June.
- Street, J. (1999b) Telephone conversation between Payton Deeks of ICF Consulting and Joe Street, Mississippi State University, Delta Research Center, 6 August.
- Strehler, A. and Stützel, W. (1987) "Biomass Residues." In: Hall, D.O. and Overend, R.P. (eds.) *Biomass*. John Wiley and Sons, Ltd. Chichester, UK.
- Turn, S.Q., Jenkins, B.M., Chow, J.C., Pritchett, L.C., Campbell, D., Cahill, T., and Whalen, S.A. (1997) "Elemental characterization of particulate matter emitted from biomass burning: Wind tunnel derived source profiles for herbaceous and wood fuels." *Journal of Geophysical Research*, 102(D3):3683-3699.
- University of California (1977) *Emission Factors From Burning of Agricultural Waste Collected in California*. University of California, Davis.
- USDA (1994) *Field Crops, Final Estimates 1987-1992*. National Agricultural Statistics Service, Agricultural Statistics Board, U.S. Department of Agriculture, Washington, D.C.
- USDA (1998) *Field Crops, Final Estimates 1992-1997*. National Agricultural Statistics Service, Agricultural Statistics Board, U.S. Department of Agriculture, Washington, D.C.
- USDA (1999) *Crop Production 1998 Summary*. National Agricultural Statistics Service, Agricultural Statistics Board, U.S. Department of Agriculture, Washington, D.C.
- Wisconsin Department of Natural Resources (1993) *Wisconsin Greenhouse Gas Emissions: Estimates for 1990*. Bureau of Air Management, Wisconsin Department of Natural Resources, Madison, WI.
- Adams, D.M., and R.W. Haynes (1980) "The Timber Assessment Market Model: Structure, Projections, and Policy Simulations." *Forest Sci. Monogr.* 22, Society of American Foresters, Bethesda, MD, 64 pp.
- Alig, R.J. (1985) "Econometric analysis of forest acreage trends in the Southeast." *Forest Science* 32: 119-134.
- Armentano, T.V. and J.T.A. Verhoeven (1990) "Biogeochemical cycles: global." In: *Wetlands and Shallow Continental Water Bodies*. Patten B.C. et al. (eds.) The Hague, Netherlands: SPB Academic Publishing, Vol. I, pp. 281-311.
- Barlaz, M.A. (1997) *Biodegradative Analysis of Municipal Solid Waste in Laboratory-Scale Landfills*, U.S. Environmental Protection Agency, Office of Research and Development, Research Triangle Park, NC. EPA 600/R-97-071, 1997.
- Birdsey, R.A., and L.S. Heath (1995) "Carbon Changes in U.S. Forests." In: *Productivity of America's Forests and Climate Change*. Gen. Tech. Rep. RM-271. Fort Collins, CO: Rocky Mountain Forest and Range Experiment Station, Forest Service, U.S. Department of Agriculture, pp. 56-70.
- Birdsey, R.A. (1992) *Carbon Storage and Accumulation in the United States Forest Ecosystems*. Gen. Tech. Rep. WO-59. Forest Service, U.S. Department of Agriculture.
- Burke, I.C., C.M. Yonker, W.J. Parton, C.V. Cole, K. Flach, and D.S. Schimel (1989) "Texture, Climate, and Cultivation Effects on Soil Organic Matter Content in U.S. Grassland Soils." *Soil Science Society of America Journal* 53:800-805.
- Cost, N.D., J. Howard, B. Mead, W.H. McWilliams, W.B. Smith, D.D. Van Hooser, and E.H. Wharton (1990) *The Biomass Resource of the United States*. Gen. Tech. Rep. WO-57. Washington, DC: Forest Service, U.S. Department of Agriculture, 21 pp.
- CTIC (1998) *Crop Residue Management Executive Summary*. Conservation Technology Information Center, West Lafayette, Indiana.
- Daly, C., R.P. Neilson, and D.L. Phillips (1994) "A statistical-topographic model for mapping climatological precipitation over mountainous terrain." *Journal of Applied Meteorology* 33:140-158.
- Daly, C., G.H. Taylor, W.P. Gibson, T. Parzybok, G.L. Johnson, and P.A. Pasteris (1998) "Development of high-quality spatial datasets for the United States." In: *Proceedings of the 1<sup>st</sup> International Conference on Geospatial Information in Agriculture and Forestry*. Lake Buena Vista, Florida, 1-3 June 1998. pp. I-512 - I-519.

- Daugherty, A.B. (1995) *Major Uses of Land in the United States: 1992*. AER No. 723. Washington, DC, Natural Resources and Environment Division, Economic Research Service, U.S. Department of Agriculture, 39 pp.
- EPA (1998) *Greenhouse Gas Emissions from Management of Selected Materials in Municipal Solid Waste*. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, DC. EPA530-R-98-013.
- EPA (1999). *Characterization of Municipal Solid Waste in the US: 1998 Update*. U.S. Environmental Protection Agency, Washington, DC.
- Eve, M.D., K. Paustian, R. Follett, and E.T. Elliot (2000) "An Inventory of Carbon Emissions and Sequestration in U.S. Cropland Soils." *Soil Science Society of America Journal*, Special Publication, in press.
- Haynes, R.W., coord. (1990) *An Analysis of the Timber Situation in the United States: 1989-2040*. U.S. Department of Agriculture, Forest Service, Gen. Tech. Rep. RM-199, Rocky Mtn. Forest and Range Expt. Stn., Fort Collins, CO, 268 pp.
- Haynes, R.W., and D.M. Adams (1985) *Simulations of the Effect of Alternative Assumptions of Demand-Supply Determinants on the Timber Situation in the United States*. Washington, DC: U.S. Department of Agriculture, Forest Service, Forest Economics Research.
- Heath, L.S. (1997) Memorandum from Linda S. Heath of the Pacific Northwest Research Station, Forest Service, U.S. Department of Agriculture, to Catherine Leining of ICF Inc. regarding carbon pool and carbon flux data in Heath et al. (1996). 16 December.
- Heath, L.S., R.A. Birdsey, C. Row, and A.J. Plantinga (1996) "Carbon pools and fluxes in U.S. forest products." In: *Forest Ecosystems, Forest Management and the Global Carbon Cycle*. Apps, M.J. and D.T. Price (eds.) Berlin: Springer-Verlag, pp. 271-278.
- Houghton, J.T., L.G. Meira Filho, J. Bruce, Hoesung Lee, B.A. Callander, E. Haites, N. Harris, and K. Maskell (eds.) (1995) *Climate Change 1994: Radiative Forcing of Climate Change and an Evaluation of the IPCC IS92 Emission Scenarios*. Reports of Working Groups I and II of the Intergovernmental Panel on Climate Change. Cambridge: Cambridge University Press.
- IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency. Paris, France.
- Johnson, D.W. (1992) "Effects of forest management on soil carbon storage." *Water, Air, and Soil Pollution* 64:83-120.
- Koch, P. (1989) *Estimates by Species Group and Region in the USA of: I. Below-Ground Root Weight as a Percentage of Overdried Complete-Tree Weight; and II. Carbon Content of Tree Portions*. Consulting report. 23 pp.
- Mills, J.R., and J.C. Kincaid (1992) *The Aggregate Timberland Assessment System-ATLAS: A Comprehensive Timber Projection Model*. Gen. Tech. Rep. PNW-281. Portland, OR: Pacific Northwest Research Station, Forest Service, U.S. Department of Agriculture, 160 pp.
- Moore, B., R.D. Boone, J.E. Hobbie, R.A. Houghton, J.M. Melillo, G.R. Shaver, C.J. Vorosmarty, and G.M. Woodwell (1981) "A simple model for analysis of the role of terrestrial ecosystems in the global carbon cycle." In: Bolin, B. (ed.), *Modeling the Global Carbon Budget*. SCOPE 16. New York, NY: John Wiley and Sons.
- Plantinga, A.J., and R.A. Birdsey (1993) "Carbon Fluxes Resulting from U.S. Private Timberland Management." *Climatic Change* 23:37-53.
- Post, W.M., W.R. Emanuel, P.J. Zinke, and A.G. Stangenberger (1982) "Soil carbon pools and world life zones." *Nature* 298:156-159.
- Powell, D.S., J.L. Faulkner, D.R. Darr, Z. Zhu, and D.W. MacCleery (1993) *Forest Resources of the United States, 1992*. Gen. Tech. Rep. RM-234. Fort Collins, CO: Rocky Mountain Forest and Range Experiment Station, Forest Service, U.S. Department of Agriculture, 132 pp.
- Row, C., and R.B. Phelps (1991) "Carbon cycle impacts of future forest products utilization and recycling trends." In: *Agriculture in a World of Change, Proceedings of Outlook '91, 67th Annual Outlook Conference*. Washington, DC: U.S. Department of Agriculture.
- USDA (1994) *1992 National Resources Inventory*. U.S. Department of Agriculture, National Resources Conservation Service, Washington, DC. (Digital Data)
- USFS (1990) *An Analysis of the Timber Situation in the United States: 1989 - 2040: A Technical Document Supporting the 1989 USDA Forest Service RPA Assessment*. Gen. Tech. Rep. RM-199. U.S. Forest Service, U.S. Department of Agriculture.
- USGS (1993) *Crushed Stone: Annual Report 1991*. U.S. Geological Survey, U.S. Department of the Interior, formerly Bureau of Mines. Washington, DC.
- USGS (1995) *Crushed Stone: Annual Report 1993*. U.S. Geological Survey, Reston, VA.
- USGS (1996) *Crushed Stone: Annual Report 1994*. U.S. Geological Survey, Reston, VA.
- USGS (1997a) *Crushed Stone: Annual Report 1995*. U.S. Geological Survey, Reston, VA.
- USGS (1997b) *Mineral Industry Surveys: Crushed Stone and Sand and Gravel in the Fourth Quarter of 1996*. U.S. Geological Survey, Reston, VA.

USGS (1998a) *Crushed Stone: Annual Report 1996*. U.S. Geological Survey, Reston, VA.

USGS (1998b) *Mineral Industry Surveys: Crushed Stone and Sand and Gravel in the Fourth Quarter of 1997*. U.S. Geological Survey, Reston, VA.

USGS (1999a) *Crushed Stone: Annual Report 1997*. U.S. Geological Survey, Reston, VA.

USGS (1999b) *Mineral Industry Surveys: Crushed Stone and Sand and Gravel in the First Quarter of 1999*. U.S. Geological Survey, Reston, VA.

Vogt, K.A., C.C. Grier, and D.J. Vogt (1986) Production, turnover, and nutrient dynamics of above- and belowground detritus of world forests. *Advances in Ecological Research*, 15:303-377.

Waddell, K.L., D.D. Oswald, and D.S. Powell (1989) *Forest Statistics of the United States, 1987*. Resource Bulletin PNW-RB-168. Portland, OR: Pacific Northwest Research Station, Forest Service, U.S. Department of Agriculture, 106 pp.

## Waste

### Landfills

Barlaz, M.A. (1997) *Biodegradative Analysis of Municipal Solid Waste in Laboratory-Scale Landfills*, U.S. Environmental Protection Agency, Office of Research and Development, Research Triangle Park, NC. EPA 600/R-97-071.

Bingemer, H. and Crutzen, J. (1987) "The Production of Methane from Solid Wastes," *Journal of Geophysical Research*, 92:2181-2187.

EPA (1998) *Greenhouse Gas Emissions from Management of Selected Materials in Municipal Solid Waste*. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C. EPA530-R-98-013.

EPA (1988) *National Survey of Solid Waste (Municipal) Landfill Facilities*, U.S. Environmental Protection Agency, Washington, DC. EPA/530-SW-88-011. September.

EPA (1993) *Anthropogenic Methane Emissions in the United States, Estimates for 1990: Report to Congress*, U.S. Environmental Protection Agency, Office of Air and Radiation, Washington, DC. EPA/430-R-93-003, April.

Federal Register (1996) *Standards of Performance for Municipal Solid Waste Landfills*, Code of Federal Regulations, 40 CFR Part 60, Subparts Cc and WWW. <[www.epa.gov/docs/fedrgstr/EPA-AIR/1996/March](http://www.epa.gov/docs/fedrgstr/EPA-AIR/1996/March)>.

Glenn, Jim (1999) "BioCycle Nationwide Survey: The State of Garbage in America," *BioCycle*, April.

Liptay, K., et al. (1998) "Use of Stable Isotopes to Determine Methane Oxidation in Landfill Cover Soils," *JGR Atmospheres*, 103D, 8243-8250pp.

### Wastewater Treatment

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Metcalf & Eddy, Inc. (1972) *Wastewater Engineering: Collection, Treatment, Disposal*, McGraw-Hill: New York.

U.S. Census Bureau (1999) Monthly estimates of the United States Population: April 1, 1980 to July 1, 1999. Population Estimates Program, Population Division, U.S. Census Bureau, Washington, D.C. (Available on the Internet at <<http://www.census.gov/population/estimates/nation/intfile1-1.txt>> (Accessed August 11, 1999)).

### Human Sewage

FAO (1999) *FAOSTAT Statistical Database*, United Nations Food and Agriculture Organization. (Available on the Internet at <<http://apps.fao.org/lim500/nph-wrap.pl?FoodBalanceSheet&Domain=FoodBalanceSheet>> (Accessed August 11, 1999)).

IPCC/UNEP/OECD/IEA (1997) *Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories*, Paris: Intergovernmental Panel on Climate Change, United Nations Environment Programme, Organization for Economic Co-Operation and Development, International Energy Agency.

Metcalf and Eddy, Inc. (1972) *Wastewater Engineering: Collection, Treatment, Disposal*, McGraw-Hill: New York: p. 241.

U.S. Census Bureau (1999) *Monthly Estimates of the United States Population: April 1, 1980 to July 1, 1999*, Population Estimates Program, Population Division, U.S. Census Bureau, Washington, DC. (Available on the Internet at <<http://www.census.gov/population/estimates/nation/intfile1-1.txt>> (Accessed August 11, 1999)).

### Waste Combustion

De Soete, G. G. (1993) *Nitrous Oxide from Combustion and Industry: Chemistry, Emissions and Control*. In Van Amstel, A. R. (ed) Proc. Of the International Workshop Methane and Nitrous Oxide: Methods in National Emission Inventories and Options for Control, Amersfoort (NL) 3-5 February.

EPA (1997) *Compilation of Air Pollutant Emission Factors, AP-42*, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC. October.

EPA (1998) *Characterization of Municipal Solid Waste in the United States: 1997 Update*. Report No. EPA530-R-98-007. U.S. Environmental Protection Agency, Office of Solid Waste, EPA. Washington, DC.

Glenn, Jim (1999) "11<sup>th</sup> Annual BioCycle Nationwide Survey: The State of Garbage in America." *BioCycle*, April 1999. JG Press, Emmaus, PA.

Olivier, J. G. J. (1993) *Working Group Report: Nitrous Oxide Emissions from Fuel Combustion and Industrial Processes*. In Van Amstel, A. R. (ed) Proc. Of the International Workshop Methane and Nitrous Oxide: Methods in National Emission Inventories and Options for Control, Amersfoort (NL), 3-5 February.

Watanabe, M., Sato, M., Miyazaki, M. and Tanaka, M. (1992) *Emission Rate of N<sub>2</sub>O from Municipal Solid Waste Incinerators*. NIRE/IFP/EPA/SCEJ 5<sup>th</sup> International Workshop on N<sub>2</sub>O Emissions, July 1-3, 1992. Tsukuba, Japan, Paper 3-4.

## Waste Sources of Criteria Pollutants

EPA (1999) *National Air Pollutant Emissions Trends Report, 1900-1998*, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC.

EPA (1997) *Compilation of Air Pollutant Emission Factors, AP-42*, U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, October.

