

NIOSH



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Agricultural Disease and Injury Research Bibliography 1990-1996


**NIOSH CENTERS FOR AGRICULTURAL DISEASE AND INJURY RESEARCH,
EDUCATION, AND PREVENTION
JULY 1997**



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Centers for Disease Control and Prevention
National Institute for Occupational Safety and Health



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**Agricultural Disease and Injury
Research Bibliography
1990-1996**

**NIOSH Centers for Agricultural Disease and
Injury Research**

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Centers for Disease Control and Prevention
National Institute for Occupational Safety and Health

July 1997

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INTRODUCTION

The National Institute for Occupational Safety and Health (NIOSH) is the federal Institute responsible for conducting research and making recommendations for the prevention of work-related injuries. NIOSH is part of the Centers for Disease Control and Prevention (CDC) within the Department of Health and Human Services (DHHS).

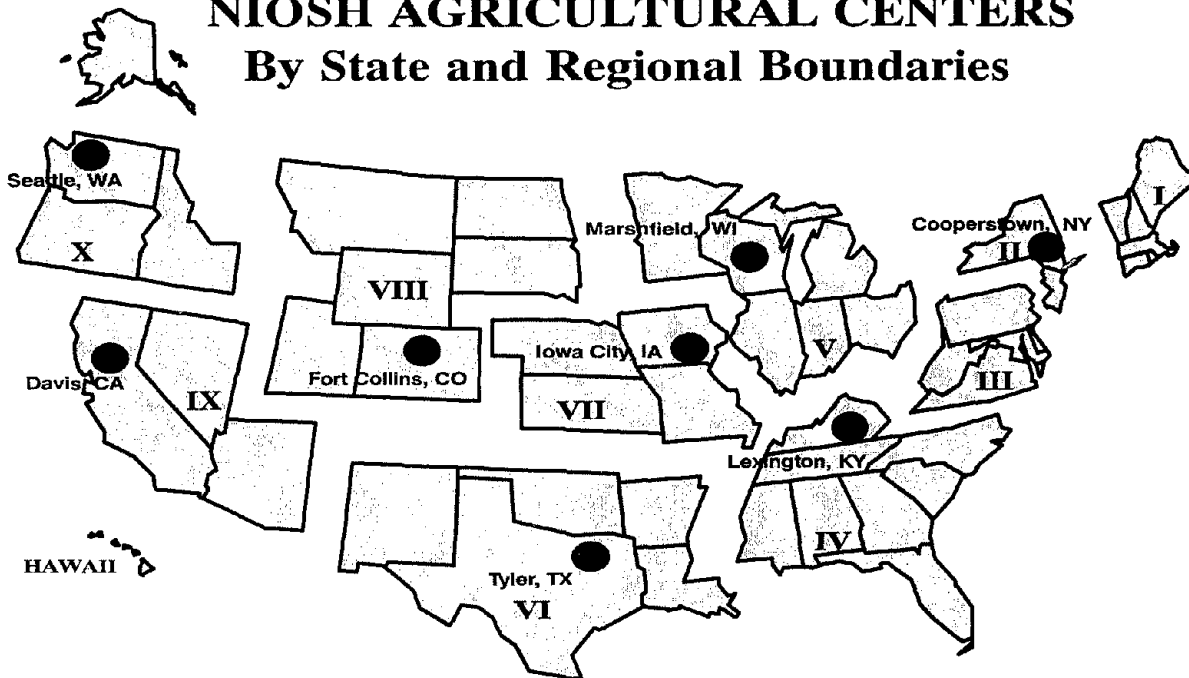
In 1990, NIOSH established the **NIOSH Centers for Agricultural Disease and Injury Research, Education, and Prevention** (Agricultural Centers) as part of an agricultural health and safety initiative. Agricultural Centers have been established in eight different DHHS Regions (**Table 1**). The geographic distribution of the Agricultural Centers throughout the nation allows them to respond to unique agricultural health and safety issues in each different region.

The Agricultural Centers conduct research, education, and prevention projects that target the nations most pressing agricultural health and safety problems. The Agricultural Centers:

- Develop and conduct research related to the prevention of occupational disease and injury among agricultural workers and their families.
- Develop and implement model educational and intervention programs promoting agricultural health and safety for agricultural workers and their families.
- Develop and evaluate control technologies for the prevention of illness and injury among agricultural workers and their families.
- Develop and implement model programs for the prevention of illness and injury among agricultural workers and their families.
- Evaluate agricultural injury and disease prevention, educational materials and programs implemented by the Agricultural Centers.
- Provide consultation and/or training to researchers, health and safety professionals, graduate/professional students, agricultural extension agents, and others in a position to improve the health and safety of agricultural workers.
- Develop linkages and communication with other governmental and nongovernmental bodies involved in agricultural health and safety with a special emphasis on other NIOSH sponsored agricultural health and safety programs.

TABLE 1

NIOSH AGRICULTURAL CENTERS By State and Regional Boundaries



CDC
CENTERS FOR DISEASE CONTROL
AND PREVENTION

**CALIFORNIA
(REGION IX)**

University of California Agricultural Health and Safety Center
Old Davis Road
University of California
Davis, CA 95616-8757
Director: **Marc B. Schenher, M.D., M.P.H.**
Telephone: (916) 752-5676
FAX: (916) 752-3239

**COLORADO
(REGION VIII)**

High Plains Intermountain Center for Agricultural Health and Safety
154B Environmental Health Building
Colorado State University
Fort Collins, CO 80523-1681
Director: **Roy M. Buchan, Dr. P.H.**
Telephone: (970) 491-6151
FAX: (970) 491-7778

**IOWA
(REGION VII)**

Great Plains Center for Agricultural Health
100 Oakdale Campus, #124 AMRF
The University of Iowa
Iowa City, IA 52242-5000
Director: **James A. Merchant, M.D., Dr.P.H.**
Telephone: (319) 335-4189
FAX: (319) 335-4225

**KENTUCKY
(REGION IV)**

Southeast Center for Agricultural Health and Injury Prevention

Department of Preventive Medicine
University of Kentucky College of Medicine
1141 Red Mile Road, Suite 102
Lexington, KY 40504-9842
Director: **Robert McKnight, M.P.H., Sc.D.**
Telephone: (606) 323-6836
FAX: (606) 323-1038

**NEW YORK
(REGIONS I to III)**

Northeast Center for Agricultural and Occupational Health (NEC)

New York Center for Agricultural Medicine and Health
One Atwell Road
Cooperstown, NY 13326
Director: **John J. May, M.D.**
Telephone: (607) 547-6023
FAX: (607) 547-6087

**TEXAS
(REGION VI)**

Southwest Center for Agricultural Health, Injury, and Education

University of Texas Health Center at Tyler
P.O. Box 2003
Tyler, TX 75710-2003
Director: **Arthur Frank, M.D., Ph.D.**
Telephone: (903) 877-5896
FAX: (903) 877-5789

**WASHINGTON
(REGION X)**

Pacific Northwest Agricultural Safety and Health Center

Department of Environmental Health

Box 357234

University of Washington

Seattle, WA 98195

Director: **Richard A. Fenske, Ph.D., MPH**

Telephone: (206) 543-0916

FAX: (206) 616-2687

**WISCONSIN
(REGION V)**

Midwest Center for Agricultural Research, Education and Disease and Injury Prevention

National Farm Medicine Center

1000 North Oak Avenue

Director: **Stephen Olenchock, Ph.D.**

Marshfield, WI 54449-5790

Telephone: (715) 387-9248

FAX: (715) 389-4950

HOW TO USE THIS DOCUMENT

This bibliography contains a comprehensive list of publications, manuscripts, abstracts, and other materials developed by the Agricultural Centers from the time of their inception through 1996. This bibliography divides the references into two distinct categories: National Occupational Research Agenda (NORA) priority research areas and other research areas.

In 1996, NIOSH and its public and private partners developed NORA to set priorities for occupational safety and health research into the next decade. The NORA section divides the references under the 21 NORA research priorities. These references were selected to provide a summary benchmark of pre-NORA Agricultural Centers research.

A roman numeral follows each reference. The number indicates the regional location of the Agricultural Center that produced the reference. Refer to Table 1 for information on the Agricultural Centers.

Section 1: NORA Priority Research Areas

ALLERGIC AND IRRITANT DERMATITIS

JOURNALS

Gamsky TE, McCurdy SA, Wiggins P, Samuels S, Berman B, et al. [1992]. Epidemiology of dermatitis among California farm workers. *J Occup Med* 34:304-310. (IX)

Henderson JD, Yamamoto JT, Fry DM, Seiber JN, Wilson BW [1994]. Oral and dermal toxicity of organophosphate pesticides in the domestic pigeon (*Columba livia*). *Environ Contam Toxicol* 52:633-640. (IX)

MISCELLANEOUS

Other

Leistikow BN, Rodriguez HP, Childs M [1995]. Case studies in agricultural medicine: skin disease in agriculture. Davis, CA: UC Agricultural Health and Safety Center at Davis. (IX)

ASTHMA AND CHRONIC OBSTRUCTIVE PULMONARY DISEASE

JOURNALS

Armstrong LC, Watkins K, Pinkerton KE, Last JA [1994]. Collagen mRNA content and distribution in the lungs of rats exposed to ozone. *Am J Respir Cell Mol Biol* 11:25-34. (IX)

Bauer M, Coppolo D [1993]. Agricultural lung disease: prevention. *Seminars Respir Med* 14(1):83-89. (I-III)

Beard MD, Buchan RM, Reeves FB [1996]. Pulmonary reactive components of winter wheat grain dust at Colorado farms and elevators. *Appl Occup Environ Hyg* 11(2). (VIII)

Beaumont JJ, Goldsmith DF, Morrin LA, Schenker MB [1995]. Mortality in agricultural workers after compensation claims for respiratory disease, pesticide illness, and injury. *J Occupational Environmental Med* 37(2):160-169. (IX)

Blaski CA, Clapp WD, Thorne PS, Quinn TJ, Waft JL, Frees KL, et al. [1996]. The role of atopy in grain dust induced airway disease. *Am J Resp Crit Care Med* 154:334-40. (VII)

Blaski CA, Watt JL, Quinn TJ, Thorne PS, Schwartz DA [1996]. Nasal lavage cellularity, grain dust, and airflow obstruction. *Chest* 109:1066-92. (VII)

Chang LY, Mercer RR, Pinkerton KE, Crapo JD [1991]. Quantifying lung structure: experimental design and biologic variation in various models of lung injury. *Am Rev Respir Dis* 143:625-634. (IX)

Clapp WD, Thorne PS, Frees KL, Zhang X, Lux CR, Schwartz DA [1993]. The effects of inhalation of grain dust extract and endotoxin on upper and lower airways. *Chest* 104:825-30. (VII)

Clapp WD, Becker S, Quay J, Watt JL, Thorne PS, Frees KL, et al. [1994]. Grain dust-induced airflow obstruction and inflammation of the lower respiratory tract. *Am J Respir Crit Care Med* 150:611-7. (VII)

Cosma G, Martinez A, Ufferfilge D, Beard M, Olenchock S [forthcoming]. Pro-inflammatory responses of respiratory cells to grain dust extracts. *J Toxicol Environ Health*. (VIII)

Asthma and Chronic Obstructive Pulmonary Disease

Coultas DB, Gong H Jr., Grad R, Handler A, McCurdy SA, Player R, et al. [1994]. State of the art: Respiratory diseases in minorities in the United States. *Am J Resp Crit Care Med* 149 (3 Pt 2):S93-131. (IX)

Cullinan P, Lawson D, Nieuwenhuijsen MJ, Sandiford C, Tee RD, Venables M, et al. [1994]. Work related symptoms, sensitisation and estimated exposure in workers not previously exposed to flour. *Occup Environ Med* 51:579-583. (IX)

Deetz DC, Jagielo PJ, Thorne PS, Bleuer SA, Quinn TJ, Schwartz DA [1995]. The kinetics of grain dust induced lung inflammation in mice. *Am Fed Clin Research*. (VII)

Dodge DE, Rucker RB, Pinkerton KE, Haselton CJ, Plopper CG [1994]. Dose-dependent tolerance to ozone. III. *Toxicol Appl Pharmacol* 127:109-123. (IX)

Donham KJ, Merchant J, Lassise D, Pependorf W, Burmeister L [1990]. Preventing respiratory disease in swine confinement workers: intervention through applied epidemiology, education, and consultation. *Am J Ind Med* 18:241-61. (VII)

Donham KJ [1993]. Respiratory disease hazards to workers in livestock and poultry confinement structures. *Semin Respir Med* 14(1):49-59. (VII)

Donham KJ, Reynolds SJ, Whitten P, Merchant JA, Burmeister LF, Pependorf W [1995]. Respiratory dysfunction in swine production facility workers: dose-response relationships of environmental exposures and pulmonary function. *Am J Ind Med* 27(3):405-18. (VII)

Duan X, Buckpitt AR, Pinkerton KE, Ji CM, Plopper CG [1996]. Ozone-induced alterations in glutathione in lung subcompartments of rats and monkeys. *Am J Respir Cell Mol Biol* 14:70-75. (IX)

Fick RB, He L, Shaw RN, Thorne PS [1992]. Pulmonary epithelial cell-derived neutrophil chemotaxis in the pathogenesis of grain dust lung disease. *Am Rev Respir Dis* 145:A797. (VII)

Gamsky TE, Schenker MB, McCurdy SA, Samuels SJ [1992]. Smoking, respiratory symptoms, and pulmonary function among a population of Hispanic farmworkers. *Chest* 101:1361-1368. (IX)

Gelzleichter TR, Witschi HB, Last JA [1992]. Concentration-response relationships of rat lungs to exposure to oxidant air pollutants: a critical test of Haber's law for ozone and nitrogen dioxide. *Toxicol Appl Pharmacol* 112:73-80. (IX)

Gelzleichter TR, Witschi HP, Last JA [1992]. Synergistic interaction of nitrogen dioxide and ozone on rat lungs: acute responses. *Toxicol Appl Pharmacol* 116:1-9. (IX)

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Hyde DM, Hubbard WC, Wong V, Wu R, Pinkerton KE, Plopper CG [1992]. Ozone-induced acute tracheobronchial epithelial injury: Relationship to granulocyte emigration in the lung. *Am J Resp Cell Mol Biol* 6:481-497. (IX)

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Ji CM, Plopper CG, Witschi HP, Pinkerton KE [1994]. Exposure to sidestream cigarette smoke alters bronchiolar epithelial cell differentiation in the postnatal rat lung. *Am J Respir Cell Mol Biol* 11:312-320. (IX)

Joad JP, Bric JM, Pinkerton KE [1995]. Sidestream smoke effects on lung morphology and c-fibers in young guinea pigs. *Toxicol Appl Pharmacol* 131:289-296. (IX)

Jones WG, Dennis JW, May JJ, Whitmer MP, Siegel PD, Sorenson WG, et al. [1995]. Dust control during bedding chopping. *Appl Occup Environ Hyg* 10(5):467-475. (I-III)

Last JA, Gelzleichter TR, Pinkerton KE, Walker RM, Witschi HP [1993]. A new model of progressive pulmonary fibrosis in rats. *Am Rev Respir Dis* 148:487-494. (IX)

Lawson RJ, Schenker MB, McCurdy SA, Jenkins B, Lischak LA, John W, et al. [1995]. Exposure to amorphous silica fibers and other particulate matter during rice farming operations. *Appl Occup Environ Hyg* 10(8):677-684. (IX)

Lee CH, Rajini P, Pinkerton KE, Witschi HP [1995]. Correlation between cumulative labeling indices measured in the terminal bronchioles and in the centriacinar region in the lungs of rats exposed to oxidant air pollutants. *Toxicol Letters* 80:25-28. (IX)

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Witschi HP, Oreffo VIC, Pinkerton KE [1995]. Six month exposure of strain A/J mice to cigarette sidestream smoke: cell kinetics and lung tumor data. *Fund Appl Toxicol* 26:32-40. (IX)

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May JJ, Pratt DS, eds. [1993]. Occupational lung disease in agriculture. *Semin Resp Med* Vol. 14, No.1. (I-III)

May JJ, Schenker MB [1995]. Agriculture. In: Harber P, Schenker M, Balmes J, eds. Occupational and environmental respiratory disease. St. Louis, MO: Mosby Yearbook: pp. 617-636. (IX)

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Schenker M, Ferguson T, Gamsky T [1991]. Respiratory risks associated with agriculture. In: Cordes DH, Rea DF, eds. Occupational medicine state of the art reviews: health hazards of farming. Vol. 6, No. 3. Philadelphia, PA: Hanley & Belfus, Inc., pp. 415-429. (IX)

Schwartz DA, Cowl CT, Merchant JA [in press]. Occupational lung disease. In: Kelley textbook of internal medicine. (VII)

Von Essen SJ, Donham KJ [in press]. Respiratory disease related to work in agriculture. In: Langley R, Meggs W, McLymore R, Roberson G, eds. Health and safety in agriculture, forestry and fisheries. Rockville, MD: Government Institution Inc., 1996. (VII)

MISCELLANEOUS

Abstracts

Beaumont JJ, Goldsmith DF, Morrin LA, Schenker MB [1994]. Mortality in agricultural workers after compensation claims for respiratory disease, pesticide illness, and injury [Abstract]. Como, Italy: Tenth International Symposium on Epidemiology in Occupational Health, September 20-23. (IX)

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Beaumont JJ, Goldsmith DF, Morrin LA, Schenker MB [1994]. Mortality in agricultural workers after compensation claims for respiratory disease, pesticide illness, and injury [Abstract]. Proceedings of XII International Congress of Agricultural Medicine and Rural Health, Stockholm, Sweden, July 10-13. *Ann Ag Environ Med* 1:108. (IX)

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Farrar JA, Beaumont JJ, Wintemute GJ, Green RS, Schenker M, McCurdy SA [1994]. Injuries in California farm operators [Abstract]. *Ann Ag Environ Med* 1:136. (IX)

Hill M, May J, Coppolo D, Jenkins P [1993]. Long term effectiveness of a respiratory awareness program for farmers [Abstract]. Coeur D'Alene, ID: 1993 National Institute for Farm Safety. (I-III)

May J, Fernandez-Caldas E [1995]. Predominant species of storage mites in northeastern dairy farms [Abstract]. Fort Collins, CO: Second NIOSH AG Centers Annual Meeting, March 27. (I-III)

McCurdy SA, Ferguson TJ, Goldsmith DG, Johnston J, Adams CW, Schenker MB [1992]. Respiratory health of California rice farmers [Abstract]. Miami Beach, FL: American Thoracic Society, May 18. (IX)

McCurdy SA, Pocekay D, Samuels SJ, Gold EB, Hammond SK, Woskie S, et al. [1993]. A cross-sectional study of respiratory symptoms among US semiconductor manufacturing workers [Abstract]. San Francisco, CA: American Lung Association/American Thoracic Society International Conference. (IX)

McCurdy SA, Swartz J, Ferguson T, Goldsmith D, Schenker MB [1993]. Rice farming and respiratory health in California [Abstract]. San Francisco, CA: Second International Symposium on Silica, Silicosis, and Cancer, October 28-30. (IX)

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Asthma and Chronic Obstructive Pulmonary Disease

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Lexington's Hispanic population outpacing many social services [1996]. Lexington, KY, Herald-Leader, August 21:Community-8. (IV)

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Martinez A [1993]. Monitoring migrant camps: an eye-opening experience. The Night Soil and Sputum Review, the Colorado State University Newsletter of the Student Environmental Health Association, 2, No. 2, October. (VIII)

Migrant workers becoming 'backbone' of tobacco harvest [1996]. Louisville, KY, Courier Journal, October 7:B-3. (IV)

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Other

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Elaine Eaker, ScD [1996]. Farm women's support group. WITI TV-6 Milwaukee, aired in July. August 28, 1996. (V)

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Varese S, Grieshop JI [1993]. Selected readings on the mixtec people. (Accompanies the video, Invisible Indians: Mixtec farmworkers in California"). Davis, CA: University of California, Native American Studies, July, 29 pp. (IX)

Villarejo D [in preparation]. The invisible Latinos of the rural west. Latino Rural Studies Group, University of Indiana. (IX)

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Cole HP [1996]. Seminar in simulation exercise design. University of Kentucky, Spring 1997. Kentucky Migrant Farm Workers: Community Issues and Challenges. Statewide conference hosted by Migrant Network Coalition, March. (IV)

Lee BD [1995]. Epidemiology of agricultural injuries: special populations. St. Paul, MN: Adjunct faculty for Midwest Occupational Health Seminar, University of Minnesota, August 22. (V)

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Videos

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Miller JM, Beaumont JJ [1995]. Suicide, cancer, and other causes of death among California veterinarians, 1960-1992. *Am J Indust Med* 27:37-50. (IX)

Schenker MB, Gold E, Lopez R, Caggiano V [1993]. Epidemiology of lung cancer in a multicultural California population [Abstract]. *Am Rev Respir Dis* 147:A775. (IX)

Witschi HP, Schuller HM [1991]. Diffuse and continuous cell proliferation enhances radiation-induced tumorigenesis in hamster lung. *Cancer Lett* 60:193-197. (IX)

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Gordis L, Gold EB [1993]. Epidemiology and etiology of pancreatic cancer. In: Go et al., eds., The exocrine pancreas: biology, pathobiology and diseases. 2nd ed. New York: Raven Press, pp. 837-55. (IX)

Stagg CH [1995]. Patterns of malignant melanoma in Kentucky counties. [MSPH Thesis]. University of Kentucky. (IV)

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Abstracts

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Gold EB, Schenker MB, Caggiano V, Lopez R [1993]. Epidemiology of lung cancer in the Sacramento Valley Region [Abstract]. San Francisco, CA: California Cancer Registries Conference. (IX)

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JOURNALS

Kelsey T, Dennis JW, Jenkins P [1994]. Dairy barns and roll-over protection on farm tractors: work environment impacts on the adoption of roll-over protective structures. *Am J Indust Med* 25:589-592. (I-III)

Kelsey TW, Jenkins PL, May JJ [1996]. Factors influencing tractor owners' potential demands for rollover protective structures on farm tractors. *J Ag Safety Health* 2:35-42. (I-III)

Liu J, Ayers P [1996]. Effect of vehicle dynamics on the stability index for tractors. *J Agromedicine*. (VIII)

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Popendorf W, Merchant JA, Leonard S, Burmeister LF, Olenchock SA [1995]. Respirator protection and acceptability among agricultural workers. *Appl Occup Environ Hyg* 10(7): 595-605. (VII)

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Arogo J [forthcoming]. Emission and control of hydrogen sulfide gas [Thesis]. (V)

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Aherin RA, Arogo J, Day DL, Christianson LL, Riskowski GL [1995]. Controlling gaseous emissions in confined animal housing [Abstract]. Boulder, CO: National Institute for Occupational Safety and Health Agricultural Research Centers Conference, March. (V)

Control Technology and Personal Protective Equipment

Hill M, May J, Coppolo D, Jenkins P [1993]. Long term effectiveness of a respiratory awareness program for farmers [Abstract]. Coeur D'Alene, ID: 1993 National Institute for Farm Safety. (I-III)

Ivory J [1994]. Protective equipment: modifying farmer's behavior [Abstract]. Stockholm, Sweden: 12th Congress of the International Association of Agricultural Medicine and Rural Health, July 10-July 13. (I-III)

Kelsey T, May J, Jenkins P [1996]. Farm tractors and the use of seat belts and roll-over protective structures [Abstract]. Iowa City, IA: The Third Annual NIOSH Agricultural Health and Safety Conference, March 23-26. (I-III)

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Aherin RA [1996]. Using sensors to detect potentially hazardous atmospheres in production agriculture. Appleton, WI: Farmstead Equipment Association Council and Milking Machine Manufacturers Council Joint Summer Meeting, August. (V)

Aherin RA, Christianson LL, Day DL, Riskowski GL, RE Fonner ed. [1996]. Using sensors to detect potentially hazardous atmospheres in production agriculture. Animal Conference of American Society of Agricultural Engineers, July, Paper No. 965041. (V)

Arogo J [1996]. Evaluation of mass transfer coefficient of ammonia from liquid swine manure. Kansas City, MO: International Conference on Air Pollution from Agricultural Operations, February. (V)

Arogo J [1996]. Ventilation effects on ammonia and hydrogen sulfide gases in a manure storage pit. Phoenix, AZ: ASAE International Summer meeting, July. (V)

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Liu J, Ayers P [1996]. Effect of lateral acceleration on the stability index of tractor. Iowa City, IA: Third Conference of NIOSH-Sponsored Agricultural Health and Safety Centers. (VIII)

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Other

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Lehtola CJ, Rautiainen RH [1995]. TRAC-SAFE. Tractor risk abatement and control. A community-based program for reducing injuries and deaths due to tractor overturns. Facilitators manual. University of Iowa, September. (VII)

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Tang Z [1996]. Reducing fatality risks from livestock manure storages. Urbana-Champaign, IL: University of Illinois at Urbana-Champaign, College of Agriculture, Consumer, and Environmental Sciences Open House, March. 2nd place in the Graduate Student Category. (V)

EXPOSURE ASSESSMENT METHODS

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Borhan B, Hammock BD, Seifert J, Wilson BW [in press]. Methyl and phenyl esters and thioesters of carboxylic acids as surrogate substrates for microassay of proteinase K esterase activity. *Frenius J Anal Chem* 354:490-492. (IX)

Donham KJ [1991]. Association of environmental air contaminants with disease and productivity in swine. *Am J Vet Res* 52(10):1723-30. (VII)

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Reynolds SJ, Donham KJ, Whitten P, Merchant JA, Burmeister LF, Pependorf WJ [1996]. Longitudinal evaluation of dose-response relationships for environmental exposures and pulmonary function in swine production workers. *Am J Ind Med* 29:33-40. (VII)

Reynolds SJ, Merchant JA, Zwerling C, Stromquist AM, Burmeister LF [in press]. The Keokuk County Rural Health Study: preliminary results of environmental exposure assessments. *J Agromedicine*. (VII)

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Stromquist AM, Merchant JA, Burmeister LF, Zwerling C, Reynolds SJ [in press]. The Keokuk County Rural Health Study: methodology and demographics. *J Agromedicine*. (VII)

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