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PB91-140475

NIOSH

**Supplement and Index to
GRAIN-DUST
FIRE and EXPLOSION
Bibliography**

NOVEMBER 1976 - MAY 1978

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Public Health Service
Center for Disease Control
National Institute for Occupational Safety and Health



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16. Abstract (Limit: 200 words) A bibliography of recent work (primarily from January 1976 through May 1978) concerning the study, design, and implementation of programs to reduce the hazards of grain dust explosions is presented. This compilation is a project of the Energy and Mineral Resources Research Institute at Iowa State University under contract to the NIOSH Division of Safety Research. A major concern of the Division of Safety Research is the causes of occupationally related accidents and injuries. The etiology of fires and explosions from all types of dusts is an area under active study. Because the circumstances that contribute to dust explosions are complex and far reaching, a fail safe system for prevention of grain dust explosions necessarily involves efforts in a wide range of disciplines. Some of the topics treated in the cited literature are: occurrences, causes, and prevention of explosions; dust collection techniques; safety training and education; insurance standards, national codes, and government regulations; grain handling operations; management principles; economic aspects; chemical and physical properties of dusts; flame propagation mechanisms; fire and explosion detection; and explosion suppression and control.		13. Type of Report & Period Covered		
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Supplement to
A Bibliography of Topics
Related to the Study of Grain-Dust
Fire and Explosion
With Keyword Indexes
November 1976 - May 1978

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Energy and Mineral Resources
Research Institute
Iowa State University
Ames, Iowa 50011

Task Order No. 78-11688

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service
Center for Disease Control
National Institute for Occupational Safety and Health
Division of Safety Research
Morgantown, West Virginia 26505

July 1978

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DHEW (NIOSH) Publication No. 78-183

Preface

The National Institute for Occupational Safety and Health (NIOSH) is the principal Federal agency engaged in research in the national effort to eliminate on-the-job hazards to the safety and health of America's working men and women. It was established within the Department of Health, Education, and Welfare under the provisions of Public Law 91-596, the Occupational Safety and Health Act of 1970. NIOSH conducts research on which new standards can be based and implements education and training programs to help alleviate the shortage of trained occupational safety and health personnel.

At the Institute's Division of Safety Research, created in June 1977 and located in Morgantown, West Virginia, major efforts are under way to explore the causes of occupationally-related accidents and injuries. The etiology of fires and explosions from all types of dusts is a major concern in these programs. The occurrence of several major grain dust explosions in recent months has provided a tragic reminder of the need for exhaustive information on grain dust fires and explosions in order to help us develop more effective accident prevention procedures.

The NIOSH Division of Safety Research is privileged to provide this "Supplement to a Bibliography of Topics Related to the Study of Grain Dust Fire and Explosion with Keyword Indexes, November 1976 - May 1978." The citations listed herein refer to materials published primarily from January 1976 through May 1978. Both this document and the earlier publication, "A Bibliography of Topics Related to the Study of Grain Dust Fire and Explosion with Keyword Indexes," were developed by the Energy and Mineral Resources Research Institute (EMRRI) at Iowa State University, Ames, Iowa. Together, the publications represent a comprehensive bibliography of the subject. The Division of Safety Research gratefully acknowledges the efforts of Dr. Delwyn Bluhm and Ms. Mary Verkade who compiled the supplement in completion of NIOSH Task Order #78-11688.

ABSTRACT

This bibliography is a compilation of recent work published in areas which may be of interest to those involved in studying, designing, and implementing programs to reduce the hazards of grain dust explosions. Among the many issues to which the cited literature refers are: (1) occurrences, causes, and prevention, (2) dust collection methods, (3) safety training and education, (4) insurance standards, national codes and government regulations, (5) grain handling operations, (6) management principles, (7) economic aspects, (8) chemical and physical properties of dusts, (9) flame propagation mechanisms, (10) fire and explosion detection, and (11) explosion suppression and/or control. The documents cited in the bibliography were published between January 1976 and May 1978.

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Acknowledgements

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LIST OF KEYWORDS

KEYWORD	TIMES CITED	KEYWORD	TIMES CITED	KEYWORD	TIMES CITED
- ACETIC-ACID	1	- ACID	1	- ANISOLE	1
- CARBOXYLATE	1	- CHLORODIBEN-	1	- CLOPROPANE-	1
- ED-PHENOLS	1	- ETHYL	1	- METHYL	3
- PHENOL	1	- PHENOXYACETIC	1	- PROPIONATE	1
- THIOCARBAMATE	2	- ZO-P-DIOXIN	1	ACARICIDE	1
ACEPHATE	1	ACORN	1	ACOUSTIC	1
ACRYLONITRILE	1	ACTELIC	1	ACTIVITY	1
AERATION	8	AEROSOL	15	AGRIC-PRODUCTS	16
AIR-IONIZATION	1	ALACHLOR	1	ALDRIN	1
ALFALFA	1	AMBIENT-TEMP	1	AMIFOS	1
AMMONIA	3	ANALYSIS	3	APPLES	8
AUDIO-VISUAL	1	AUTOMATION	7	BANANAS	1
BAFLEY	1	BEANS	1	BEARINGS	3
BELT	13	BENZIMIDAZOLES	1	BENZOYLPROP-	1
BIBLIOGRAPHY	7	BIOLOGICAL	1	BIORESMETHRIN	1
BOOK	24	BREAKAGE	2	BROMIDE	1
BROMOPHOS	1	BUCKET-ELEVATR	5	BUCKWHEAT	1
CAPACITY	1	CARBAMATE	3	CARBN-TETRACHL	1
CARBOFURAN	5	CARBOHYDRATES	1	CARBON-DIOXIDE	6
CARBONACEOUS	1	CAUSE	15	CELLULOSE	3
CHEMICAL	1	CHEMICAL-PLANT	1	CHERRIES	1
CHLOROPHENOXY-	1	CHLOROPICRIN	1	CHLOROPYRIFOS-	1
CHOCOLATE	1	CLEANING	2	COAGULATION	7
COAL	14	COCAO-BEANS	1	CODES	8
COFFEE	1	COHESION	1	COMBUST-PROD	14
COMBUSTION	21	CONCENTRATION	11	CONCRETE	1
CONDITIONING	3	CONFERENCE	75	CONTAINMENT	2
CONTFOL	41	CONTROLLED-ATM	29	CONVEYING	87
CORN	51	CORROSION	1	COTTON	4
COTTON-MILL	1	COTTONSEED	1	COTTONSEEDMILL	2
CYCLODIENE	1	CYCLONE	7	DAIRY-PRODUCTS	1
DAMAGE	38	DECOMP-PROD	2	DEGRADATION	2
DESIGN	16	DETONATION	5	DIALEN	1
DIATOMA-EARTH	1	DIAZINON	1	DIBROMOETHANE	1
DICHLORVOS	2	DIELDRIN	1	DIFFRACTION	2
DIMETHOATE	1	DINITROBUTYL-	1	DINITROCRESOL	1
DITHIOCARBAMAT	2	DOCKAGE	1	DODINE	1
DRY-PACKED-BED	1	DRYING	59	DUST	71
DUST-CONTROL	113	DUST-DISPERSAL	1	DUST-FORMATION	10
ECONOMICS	7	EDUCATION	3	EFFECT-MOIST	15
EFFECT-TEMP	8	ELECT-CHARGE	1	ELECT-EQUIP	10
ELECT-PROPERTY	6	ELECT-STAT-PPT	34	ENERGY	2
EPA	1	EPOX-PHEN-ETHR	1	ETHYLEN-DIBROM	4
ETHYLENE-OXIDE	1	ETHYLENEBISDI-	2	EXPLOS-DETECT	2
EXPLOS-SUPPRES	6	EXPLOS-VENTING	16	EXPLOSION	66
EXPORT	7	EXTINGUISHING	7	FEED	3
FEEDMILL	4	FENITROTHION	3	FILTER-FABRIC	11
FIRE	45	FIRE-DETECT	20	FIRE-RETARD	15
FLAME-ARRESTOR	2	FLAMMABILITY	13	FLASH-FIRE	1
FLOUR	4	FLOUR-MILL	3	FOOD-MFG	1
FOODSTUFFS	18	FOREIGN-MATER	1	FRACTURE	1
FRICTION	3	FRUIT	3	FUMIGANT	12
FUMIGATION	3	FUNGI	14	FUNGICIDE	14
GAS	21	GAS-DETECT	14	GLASS	1
GRAIN	209	GRAIN-CLEANER	16	GRAIN-ELEVATOR	28
GRAIN-MILL	1	GRAVITY-DROP	3	GROUNDING	1
GROWTH-REGULAT	5	HALON	1	HANDLING	15
HARVESTING	26	HAZARD-PREVENT	2	HEADSPACE	1
HERBICIDE	15	HEXACHLOROENZ	1	HEXADECYLCY-	1
HIGH-MOISTURE	9	HIGH-TEMP	1	HUMIDITY	1
HYDRAZOIC-ACID	1	HYDROGENYANID	1	IGNITION	7
IMPACT	1	INERT-ATM	1	INERTING	6
INSECT	22	INSECTICIDE	42	INSURANCE	1
IODOFENPHOS	1	IONIZA-DETECT	3	IRRADIATION	1
LASER	1	LIGNIN	5	LINDANE	2
LOOP-BELT-ELEV	1	LOW-TEMP	12	MAINTENANCE	8
MALATHION	11	MANEB	1	MARKETING	4

LIST OF KEYWORDS (CONTINUED)

KEYWORD	TIMES CITED	KEYWORD	TIMES CITED	KEYWORD	TIMES CITED
MAX-PRESSURE	2	MEASUREMENT	26	MECHANICAL	3
MECHANISM	1	METHIDATHION	2	METHYL-BROMIDE	11
METHYL-CARBAMA	1	METHYL- IODIDE	1	METHYL-PHOXIM	1
METHYLENEBIS-	1	METOBROMURON	1	MILK	3
MILLET	1	MINE	1	MIREX	1
MITES	2	MOISTURE	1	MOLD-MITE	1
MONITORING	1	MONOCROTOPHOS	1	NEMATOCIDE	1
NITROFEN	2	NITROGEN	4	OATS	2
OCCURRENCE	2	OPTICAL	1	OPTICAL-DETECT	1
OPTICAL-PROP	2	ORGANOCARBAMAT	1	ORGANOPHOSPHOR	3
OSHA	2	OXAMYL	1	PARAQUAT	3
PARTICLE-SIZE	6	PEANUTS	2	PEARS	1
PENTACHLORO-	1	PEST-CONTROL	26	PESTICIDE	43
PHOSPHINE	9	PHOTOELECTRIC	2	PHOXIM	1
PHYSICAL	10	PIGMENT	1	PIRIMIPHOS-	2
PIRIMIPHOSMETH	1	PLANT	1	PLASTIC	69
PNEUMATIC	24	POLYAMIDE	1	POLYCHLORINAT-	1
POLYESTER	1	POWDERS	1	PRE-COMBUSTION	1
PRESERVATION	2	PREVENTION	31	PROPANE	1
PROPERTIES	25	PROPIONIC-ACID	3	PULSE-JET	1
PVC	27	PYROLYSIS	3	QUALITY	1
RADIOMETRIC	1	RAPESEED	3	RATE-PRES-RISE	1
RAYON	1	REFLECTION	2	RESIDUES	84
RESPIRATION	1	REVIEW	20	RICE	5
RICE-STRAW	1	RUBBER	4	RYE	3
SAFETY	55	SBR	1	SCREW	3
SEMICONDUCTOR	2	SHOCK-WAVE	10	SILICA-GEL	3
SILO	1	SOLAR	1	SORGHUM	5
SORPTION	3	SOYBEANS	5	SPARK-DISCHARG	1
SPARK-IGNITION	7	SPONTANEOUS	1	SPRINKLER	6
STANDARDS	1	STARCH	2	STATIC-ELECT	31
STATISTICS	1	STORAGE	149	SUGAR	3
SUMITHION	1	SURFACE-AREA	1	SUSPENSION	4
SWEET-PEPPERS	1	TEA	1	TEA-LEAVES	1
THEORY	9	THERMAL-ANAL	2	THERMAL-DECOMP	23
THERMAL-PROP	11	TOBACCO	3	TRIFORINE	1
TRITICALE	1	VACUUM-CLEAN	1	VAPOR-CLOUD	1
VAPORS	5	VEGETABLES	1	VIBRATORY	8
WATER	6	WELDING	2	WET-SCRUBBER	8
WHEAT	32	WHEAT-SEEDS	1	WHEAT-STRAW	1
WINDOWS	1	WOOD	3	1964-SEPT-1976	2
1970-SEPT-1976	1	2,3,7,8-TETRA-	1	2,4-DICHLORO-	1

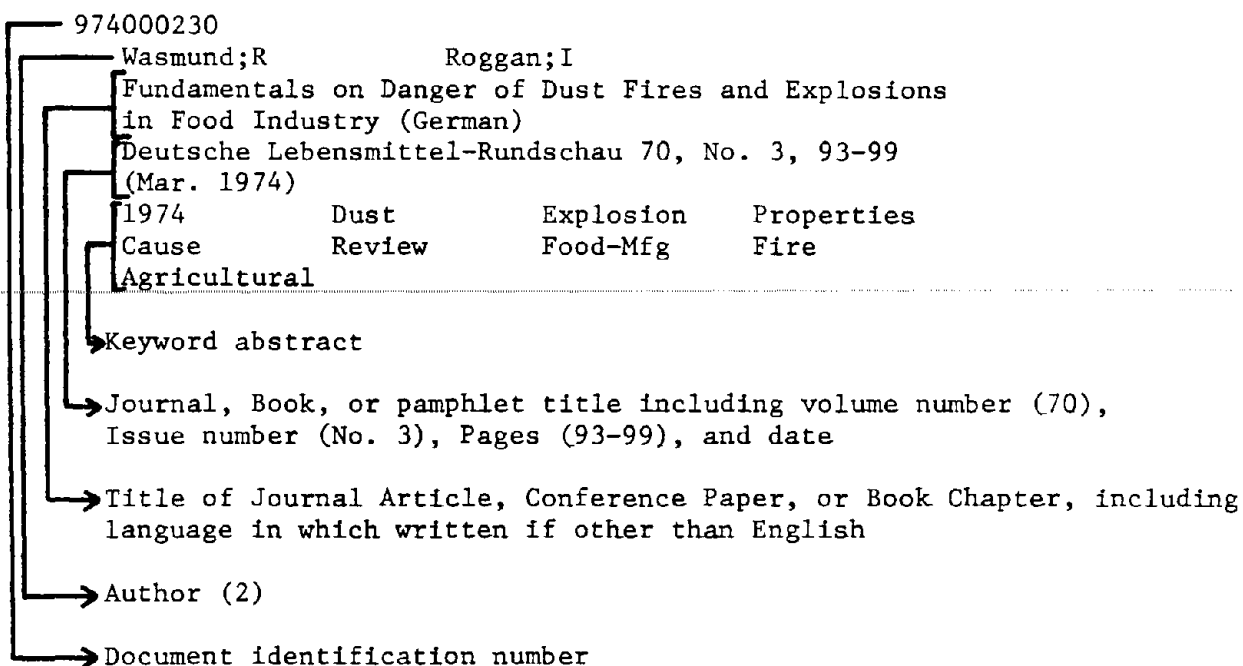
TOTAL NUMBER OF KEYWORDS = 327

Directions for Using the Bibliography

The bibliography contains 890 unique citations. Regardless of the choice of categories some overlap is unavoidable. However, duplication of entries has been limited to 4% of the total.

All references contained herein have been keyword coded and stored on magnetic tape. A list of the 327 keywords employed may be found on the preceding two pages.

A sample entry with explanatory key is shown below:



Keyword indexes placed immediately following each subsection of the bibliography may be used to locate information on specific topics. For example, to find information concerning dust control in grain elevators, first consult the table of contents. Section III is entitled Dust Control, and the keyword index begins on page 28. From the keyword index it will be noted that seven citations are listed for the keyword "grain-elevator." Each citation is identified by a unique number, and citations are listed numerically within each subsection from the smallest to the greatest. The first citation noted for the keyword "Grain-elevator," 975001270, will be found on Page 20. The first, second, and third digits of the citation number, 975 001270, indicate that the year of publication of the reference was 1975. Thus, for the reader interested in material published after 1977, two documents concerned with dust control in grain elevators are noted in the keyword index: 977002610 and 977002760.

Introduction

Because the circumstances which contribute to a disastrous dust explosion are complex and far reaching, a failsafe system for prevention of grain dust explosions necessarily involves efforts in a wide range of disciplines. Among the many factors encompassed are: (1) occurrences, causes, and prevention, (2) dust collection methods, (3) safety training and education, (4) insurance standards, national codes and government regulations, (5) grain handling operations, (6) management principles, (7) economic aspects, (8) chemical and physical properties of dusts, (9) flame propagation mechanisms, (10) fire and explosion detection, and (11) explosion suppression and/or control.

This bibliography provides a compilation of recent work published in these many areas which may be of interest to those involved in studying, designing, and implementing programs to reduce the hazards of grain dust explosions. The literature search focused primarily on the period from January 1976 to May 1978. Previous publications (1,2) surveyed the literature for the period from 1900 through 1975 with special emphasis on the years 1955 through 1975.

In the current search of the literature on grain elevator dust explosions, a particular area of concern emerged. Difficulties had been encountered by M. Verkade and P. Chiotti in compiling statistical information for the literature survey published in 1976 (1). Attempts to obtain data on occurrences of grain industry dust explosions from the national fire protection association, Boston, Massachusetts, were unsuccessful. Similar efforts to obtain the information from companies insuring these industries were unproductive with the exception of confidential loss reports supplied by Farmland Insurance Company, Des Moines, Iowa. Although this information was invaluable, the insured accounts of this single company represented only a relatively small portion of the total insurance underwritten on grain elevators and feed mills. However, a compilation of grain elevator and feed mill dust explosions for the period 1956 through 1975 was made possible in the 1976 survey by gathering information on those occurrences which were reported as a regular feature of the publication "Grain and Farm Service Centers." In the current literature search it was discovered that this trade magazine no longer includes reports of dust explosions in the grain industry. Thus, future attempts to chronicle the occurrence and cause of grain elevator and feed mill dust explosions may be severely hampered.

We, therefore, again urge that a national information center on grain elevator and feed mill safety be established to gather and store in an easily accessible manner all information pertinent to dust explosions. An important future source of information could be, for example, state fire marshalls who would insist that all incidences, no matter how small, involving the explosion of agricultural dusts be reported in full to their offices and investigated, and the information gained be made available to researchers. Additional important sources should be the grain handling and processing industry itself, those underwriting insurance, and organizations responsible for establishing standards.

1. M. Verkade and P. Chiotti, "Literature Survey of Dust Explosions in Grain Handling Facilities: Causes and Prevention," IS-EMRRI-2, Energy and Mineral Resources Research Institute, Iowa State University, Ames, Iowa, March 1976.
2. M. Verkade and P. Chiotti, "A Bibliography of Topics Related to the Study of Grain-Dust Fire and Explosion with Keyword Indexes, IS-EMRRI-6, Energy and Mineral Resources Research Institute, Iowa State University, Ames, Iowa, May 1978.

I. FIRE AND EXPLOSION: OCCURRENCE, CAUSE, PREVENTION, AND CONTROL
 A. DUST FIRE AND EXPLOSION IN GRAIN ELEVATORS AND RELATED INDUSTRIES

975001460

REINDERS;ME
 MINIMIZING DUST EXPLOSION HAZARDS IN GRAIN AND FLOUR MILLS
 J. FLOUR ANIM. FEED MILLING 157, NO. 11, 16-18, 29 (1975)
 1975 DUST GRAIN FLOUR
 FEEDMILL FLOUR-MILL EXPLOSION CONTROL

975001510

KIRILENKO;OA IAKOVENKO;VA LEBEDINSKII;VG
 ZVIAGINTSEV;BG
 SPONTANEOUS COMBUSTION IN A MASS OF DRY WHEAT STORED IN A
 SILO (RUSSIAN)
 IZV. VUZ PISHCH TEKHNOL. 5, 37-40 (1975)
 1975 COMBUSTION SPONTANEOUS WHEAT
 GRAIN STORAGE

976000790

WIESTLING;C
 PRE-FIRE PLAN AVERTS CONFLAGRATION IN GRAIN-PROCESSING COM-
 PLEX
 FIRE ENG. 129, NO. 8, 90, 92 (1976)
 1976 FIRE GRAIN-MILL CONTROL

976001490

REINDERS;ME
 HOW TO REDUCE THE DANGER OF EXPLOSION IN DUSTY STOREROOMS IN
 SILOS AND WHEAT MILLS (ITALIAN)
 TEC MOLIT 27, NO. 2, 81-5 (1976)
 1976 DUST PREVENTION FLOUR-MILL
 GRAIN-ELEVATOR EXPLOSION

976002640

RADLEY;JA
 DUST EXPLOSION HAZARDS WITH STARCH AND ITS DERIVATIVES
 PP. 91-8 IN STARCH PROD. TECHNOL., APPL. SCI., BARKING,
 ENGLAND (1976)
 1976 DUST STARCH EXPLOSION
 CAUSE PREVENTION

976003580

ANON
 CHECK THESE MAINTENANCE POINTS FOR SAFER OPERATION
 IOWA GRAIN AND FEED REVIEW 37, NO. 10, 13 (1976)
 1976 MAINTENANCE GRAIN-ELEVATOR DUST
 EXPLOSION GRAIN CAUSE PREVENTION
 BEARINGS ELECT-EQUIP FOREIGN-MATER WELDING
 BUCKET-ELEVATR

976003590

LONERGAN;C
 NEW PREVENTATIVE MAINTENANCE PLAN
 IOWA GRAIN AND FEED REVIEW 37, NO. 6, 9 (1976)
 1976 MAINTENANCE GRAIN-ELEVATOR DUST
 EXPLOSION GRAIN PREVENTION

976003600

LONERGAN;C
 A DIFFERENT CONCEPT IN DUST CONTROL
 IOWA GRAIN AND FEED REVIEW 36, NO. 6, 10-11 (1976)
 1976 DUST-CONTROL GRAIN-ELEVATOR FEEDMILL
 AIR-IONIZATION DUST EXPLOSION PREVENTION

976003610

LONERGAN;C
 SUMMER MAINTENANCE MEANS FALL PROFITS
 IOWA GRAIN AND FEED REVIEW 37, NO. 6, 13-14 (1976)
 1976 MAINTENANCE ELECT-EQUIP BUCKET-ELEVATR
 CONVEYING BELT FIRE EXPLOSION
 DUST GRAIN-ELEVATOR GRAIN SCREW
 PREVENTION SAFETY

976003620

ANON
 DUST EXPLOSIONS ON FILM
 IOWA GRAIN AND FEED REVIEW 37, NO. 9, 49 (1976)
 1976 DUST EXPLOSION GRAIN-ELEVATOR
 SAFETY EDUCATION AUDIO-VISUAL

977001730

GIBSON;ED MORRIS;V CHIOTTI;P

- THERMAL DECOMPOSITION OF GRAIN DUST: AN EARLY WARNING FOR
 INCIPIENT FIRE OR EXPLOSION
 TRANS. ASAE 20, 380-5 (1977)
 1977 THERMAL-DECOMP GRAIN DUST
 FIRE-DETECT EXPLOS-DETECT
- 977002590
 ANON
 CCC TO ASSUME CASUALTY RISK ON STORED GRAIN
 IOWA GRAIN AND FEED REVIEW 38, NO. 5, 18 (1977)
 1977 GRAIN STORAGE INSURANCE
 FIRE
- 977002620
 ANON
 EXPLOSION VENT
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HONEYCUTT;RC	ADLER;IL		
CHARACTERIZATION OF BOUND RESIDUES OF NITROFEN IN RICE AND WHEAT STRAW			
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RICE-STRAW	WHEAT-STRAW		
975002210			
KONIUKHOV;AF			
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1975	INSECTICIDE	RESIDUES	AMIFOS
GRAIN			
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GRABULOSKI;T			
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PESTICIDE			
975002230			
LACEY;J			
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SAUER;DB	HODGES;TO		BURROUGHS;R
CONVERSE;HH			
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GRAIN	PROPIONIC-ACID		
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TEA	DIMETHOATE	CONFERENCE	
975002270			
ADCMAKO;D			
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RESIDUES	CONFERENCE		
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AGRIC-PRODUCTS	CONFERENCE		
975002290			
MORLEY;HV			
CANADA'S INTERNATIONAL INVOLVEMENT IN PESTICIDE MANAGEMENT			
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LACEY;J			
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975002610	SMITH;RE	STEVENS;KR	
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	PROPIONIC-ACID HIGH-MOISTURE		
975002710	HAREIN;PK		
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975002750	HEUSER;SGB		
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	INF. FITOPATOL 26, NO. 1, 11-18 (1976)		
1976	STORAGE	CONTROLLED-ATM	NITROGEN
	FUNGI	EFFECT-MOIST	WHEAT
976001240	MILLS;JT	BOLLEN;GJ	
	MICROFLORA OF HEAT-DAMAGED RAPESEED		
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976001320	BURRELL;NJ	HAVERS;SJ	
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	ANN. APPL. BIOL. 82, 192-7 (1976)		
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	MITES	LOW-TEMP	
976001790	ZAKLADNOI;G	NUSKJODZHAeva;IYU	
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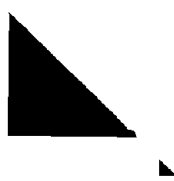
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