



COUNTERING AGRICULTURAL
BIOTERRORISM

NATIONAL RESEARCH COUNCIL
OF THE NATIONAL ACADEMIES

Countering Agricultural Bioterrorism

Steven A. Wieneke



Countering Agricultural Bioterrorism:

Countering Agricultural Bioterrorism National Research Council, Division on Earth and Life Studies, Board on Life Sciences, Board on Agriculture and Natural Resources, Committee on Biological Threats to Agricultural Plants and Animals, 2003-05-30 Public confidence in the security of the US food and fiber system has been sustained by the quality variety abundance and affordability of agricultural products in the United States Although the system in place to defend against unintentional threats to agriculture has weaknesses and needs the demonstrated ability of the system to resolve accommodate or manage critical food safety problems temporary shortages of some commodities plant and animal infestations and diseases and natural disasters indicates that in general such confidence has been warranted However over the last several years there has been recognition of the possibility and consequences of intentional threats directed at US agriculture Such attacks could come from foreign or domestic terrorists and use biological chemical or radiological agents They could be directed at the pre harvest live plant and live animal or post harvest processing and distribution stages of food and fiber production Countering Agricultural Bioterrorism assesses the vulnerability of US agriculture to intentional threats and provides recommendations needed to strengthen and adapt the US system for defense against biological threats to agriculture

Countering Agricultural Bioterrorism National Research Council (U.S.). Committee on Biological Threats to Agricultural Plants and Animals, 2003

Agricultural Bioterrorism Henry S. Parker, 2002

Agricultural Bioterrorism Henry S. Parker, 2003-11-01 Explains that American farms food and ag systems are exceedingly vulnerable to deliberate disruption by hostile interests intent on undermining confidence in food supplies or wreaking havoc on the ag sector of the American economy which accounts for 16 of our GDP Chapters Bioterrorism Bio warfare and National Security An Emerging Threat to Food Security Countering the Threat Recommendations and Conclusion Framework for Nat Coordination for Security Critical Infrastructure and Counter terrorism High Priority Research Needs Fed Agencies with Counter terrorism Responsibilities Key Fed Programs and Capabilities to Combat Bioterrorism and Selected Agricultural and Environmental Organizations

Crop Biosecurity Maria Lodovica Gullino, Jacqueline Fletcher, Abraham Gamliel, James Peter Stack, 2008-04-24 Prevention and preparedness are the two basic approaches to maximize food security against any sort of tampering whether natural inadvertent or intentional The NATO funded project Tools for crop biosecurity was designed to strengthen the cooperation among U S Europe and Israel in the field of crop biosecurity and to generate awareness on how the psychological economic and cultural consequences of crop bioterrorism especially attacks on soft targets such as crop seeds could have a disproportionate adverse effect on Mediterranean agriculture and more generally on society This book illustrates the achievements of the project originated from the workshops organized during the project itself taking in consideration main microbiological threats posed to crops the tools to recognize and to control them the needs for international cooperation and research funds to create networks which can face emerging risks for agriculture

Twenty-first Century Biological Threats United States. Congress. Senate. Committee on Health, Education, Labor, and Pensions. Subcommittee on Bioterrorism and Public Health Preparedness, 2005

Animal Health at the Crossroads National Research Council, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Committee on Assessing the Nation's Framework for Addressing Animal Diseases, 2005-12-17

The confirmed case of mad cow disease BSE in June 2005 illustrates the economic impact of disease outbreaks as additional countries closed their markets to U S beef and beef products

Emerging diseases also threaten public health 11 out of 12 of the major global disease outbreaks over the last decade were from zoonotic agents that spread from animals to humans

Animal Health at the Crossroads Preventing Detecting and Diagnosing Animal Diseases finds that in general the U S animal health framework has been slow to take advantage of state of the art technologies being used now to protect public health better diagnostic tests for identifying all animal diseases should be made a priority

The report also recommends that the nation establish a high level authoritative and accountable coordinating mechanism to engage and enhance partnerships among local state and federal agencies and the private sector

Six-Legged Soldiers Jeffrey A. Lockwood, 2008-10-10

The emir of Bukhara used assassin bugs to eat away the flesh of his prisoners

General Ishii Shiro during World War II released hundreds of millions of infected insects across China ultimately causing more deaths than the atomic bombs dropped on Japan

These are just two of many startling examples found in *Six legged Soldiers* a brilliant portrait of the many weirdly creative truly frightening and ultimately powerful ways in which insects have been used as weapons of war terror and torture

Beginning in prehistoric times and building toward a near and disturbing future the reader is taken on a journey of innovation and depravity

Award winning science writer Jeffrey A Lockwood begins with the development of bee bombs in the ancient world and explores the role of insect borne disease in changing the course of major battles ranging from Napoleon s military campaigns to the trenches of World War I

He explores the horrific programs of insect warfare during World War II airplanes dropping plague infested fleas facilities rearing tens of millions of hungry beetles to destroy crops and prison camps staffed by doctors testing disease carrying lice on inmates

The Cold War saw secret government operations involving the mass release of specially developed strains of mosquitoes on an unsuspecting American public along with the alleged use of disease carrying and crop eating pests against North Korea and Cuba

Lockwood reveals how easy it would be to use of insects in warfare and terrorism today

In 1989 domestic ecoterrorists extorted government officials and wreaked economic and political havoc by threatening to release the notorious Medfly into California s crops

A remarkable story of human ingenuity and brutality *Six Legged Soldiers* is the first comprehensive look at the use of insects as weapons of war from ancient times to the present day

Beyond Anthrax Larry I. Lutwick, Suzanne M. Lutwick, 2008-12-15

Biological warfare has unfortunately in the post 9 11 world become a significant topic of discussion in both the medical and lay presses

In the wake of the biological letter bombs containing anthrax spores the possibility of biologic and or toxic attacks on civilians in any part of the world became no longer a

possibility It is now part of common discussion and consciousness This book presents the history of the topics and clinically relevant discussions on those high risk Category A diseases beyond anthrax as well as a number of infections and toxins at the Category B level Importantly in addition the text includes sections on Public Health Infrastructure Public Health Law Surveillance Mental Health Management and Media Role all of which relate to epidemics of any sort not just intentional biological events Beyond Anthrax The Weaponization of Infectious Diseases is a product that should serve as a reference point for clinicians epidemiologists and public health personnel to understand in practical detail many of the aspects of weapons of biowarfare as well as the appropriate responses to them **Agricultural Bioterrorism** Steven A.

Wieneke,2006 The threat of agricultural terrorism in the United States has awakened the nation to the stark reality that its agricultural industry may be in jeopardy Intentional attacks delivered by land air and sea are capable of devastating this nation s agricultural infrastructure its economy and ultimately threaten the survival of the citizens and the quality of life we have taken for granted Preparations taken to identify vulnerabilities implementation of prevention measures and actions taken in response to an attack will determine the magnitude of the impact of an agricultural incident This paper will present the bioterrorism threat the United States agricultural infrastructure faces It will review the nature and threat of agricultural terrorism against livestock and croplands and demonstrate the degree of vulnerability the United States agricultural industry has against a bioterrorism attack This paper will identify current plans policies initiatives and capabilities available at the local state and federal levels It will review actions that should be implemented in order to strengthen this nation s ability to prevent prepare for respond to and mitigate long term consequences that could devastate the nation s economy Public Health Reports ,2005

Agroterrorism Linda B. Katz,2005 The potential of terrorist attacks against agricultural targets agroterrorism is increasingly recognised as a national security threat especially after the events of September 11 2001 Agroterrorism is a subset of bioterrorism and is defined as the deliberate introduction of an animal or plant disease with the goal of generating fear causing economic losses and or undermining stability Attacks against agriculture are not new and have been conducted or considered by both nation states and substate organisations throughout history The results of an agroterrorist attack may include major economic crises in the agricultural and food industries loss of confidence in government and possibly human casualties Humans could be at risk in terms of food safety or public health especially if the chosen disease is transmissible to humans zoonotic Public opinion may be particularly sensitive to a deliberate outbreak of disease affecting the food supply Public confidence in government could be eroded if authorities appear unable to prevent such an attack or to protect the population s food supply Agriculture has several characteristics that pose unique problems for managing the threat Agricultural production is geographically disbursed in unsecured environments Livestock are frequently concentrated in confined locations and then transported and commingled with other herds Pest and disease outbreaks can quickly halt economically important exports Many veterinarians lack experience with foreign animal diseases

that are resilient and endemic in foreign countries Agriculture and food production generally have received less attention in counter terrorism and homeland security efforts But more recently agriculture has garnered more attention in the expanding field of terrorism studies Laboratory and response systems are being upgraded to address the reality of agroterrorism This new book examines this threat and the preparations underway for countering it Agricultural Bioterrorism U. S. Military, National Defense University (NDU), U. S. Government, 2017-08-28 The United States ignores the potential for agricultural bioterrorism at its peril The relative ease of a catastrophic bio weapons attack against the American food and agriculture infrastructure and the devastating economic and social consequences of such an act demand that the Nation pursue an aggressive focused coordinated and stand alone national strategy to combat agricultural bioterrorism The strategy should build on counterterrorism initiatives already underway leverage existing Federal state and local programs and capabilities and involve key customers stakeholders and partners The U S Department of Agriculture should lead the development of this strategy We know that at least nine countries support offensive terrorism programs and that Al Qaeda Osama bin Laden s international terrorist organization has been committed to developing and deploying weapons of mass destruction against U S targets And the possibility that the recent anthrax attacks were perpetrated by a domestic terrorist with access to a Federal Government academic or private laboratory that possessed anthrax for legitimate scientific reasons has brought fear to the doorsteps of virtually every home business and public institution in the country We are now also facing up to a less publicized but potentially devastating threat terrorism directed against the Nation s food and agricultural infrastructure As this paper elucidates American farms food and agriculture systems are exceedingly vulnerable to deliberate disruption by hostile interests intent on undermining confidence in food supplies or wreaking havoc on the agricultural sector of the American economy which accounts for one sixth of our gross domestic product Because of its breadth diversity and unparalleled success U S agriculture is an inviting target for terrorists Not only are food supplies vital for feeding our own population and others around the world and important for the Nation s economic health but American agriculture is a vivid example of the capabilities of modern scientific farming Intelligence reports indicate that a number of countries have active research programs that could produce biological agents to threaten crops and livestock Naturally occurring outbreaks of diseases signal the devastation that could result from a carefully choreographed intentional release Thus the recent Foot and mouth disease epidemics in Taiwan and Great Britain or hog cholera in the Netherlands or the infection of Florida citrus trees with citrus canker aptly demonstrate the vulnerability of living targets to biological pathogens and the economic chaos that can result from an outbreak intentional or otherwise Chapter One Bioterrorism Biowarfare and National Security Chapter Two An Emerging Threat to Food Security Chapter Three Countering the Threat Chapter Four Recommendations and Conclusion Appendix A Framework for National Coordination for Security Critical Infrastructure and Counterterrorism Appendix B High Priority Research Needs Appendix C Federal Agencies with Counterterrorism Responsibilities Appendix D

Key Federal Programs and Capabilities to Combat Bioterrorism Appendix E Selected Agricultural and Environmental Organizations Appendix F Acronyms Endnotes References *Countering Biological Terrorism in the United States* Potomac Institute for Policy Studies. Counter Biological Terrorism Panel, David W. Siegrist, Janice M. Graham, 1999-05-28 Contains 13 papers which analyze the threat of biological terrorism in the United States Written by members of the Potomac Institute's Counter Biological Terrorism Panel these papers also discuss the efforts of the Department of Defense to counter these weapons and the terrorist groups associated with them Bioterrorism and Public Health John G. Bartlett, 2002 A directory to authoritative Web sites about bioterrorism offers sources of information on chemical and biological agents medical responses in the event of an attack public health and safety guidelines and news of recent developments *The Role of Security in the Supplier Selection Decision* Michael Douglas Voss, 2006 **The Scientific Response to Terrorism: Report, together with formal minutes** Great Britain: Parliament: House of Commons: Science and Technology Committee, Great Britain. Parliament. House of Commons. Select Committee on Science and Technology, 2003 The report examines how science and technology is used in countermeasures to chemical biological radiological and nuclear CBRN devices employed by terrorists Areas of good practice are pointed out for example the Office of the Deputy Prime Minister's ODPM's New Dimension programme of procurement for the Fire Service but there has been very little new investment in long term research and development in this field for instance the lack of emphasis on scientific research in the Home Office The Committee proposes a Centre for Home Defence under the Home Office to develop technologies for civilian use The surveillance of dangerous chemicals and pathogens both nationally and internationally is a matter of concern The Government has also imposed an unnecessary and counterproductive level of secrecy surrounding its counter terrorism research **BMJ**, 2005 **Agro-terrorism** Jennifer T. Ollington, 2008 The potential for terrorist attacks against agricultural targets agroterrorism is increasingly recognised as a national security threat especially after the events of September 11 2001 Agroterrorism is a subset of bioterrorism and is defined as the deliberate introduction of an animal or plant disease with the goal of generating fear causing economic losses and or undermining social stability The goal of agroterrorism is not to kill cows or plants These are the means to the end of causing economic damage social unrest and loss of confidence in government **The Study of Plant Disease Epidemics** Laurence V. Madden, Gareth Hughes, Frank van den Bosch, 2007 Plant disease epidemics caused by established and invasive pathogen species continue to impact a world increasingly concerned with the quantity and quality of its primary food supply The Study of Plant Disease Epidemics is a comprehensive manual that introduces readers to the essential principles and concepts of plant disease epidemiology

Reviewing **Countering Agricultural Bioterrorism**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Countering Agricultural Bioterrorism**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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