

The Great Rifle Controversy

SEARCH FOR THE ULTIMATE INFANTRY
WEAPON FROM WORLD WAR II
THROUGH VIETNAM AND BEYOND

Edward Clinton Ezell

For almost 40 years, the story that arms technologist Edward Ezell tells here has been unfolding in the world of small-arms weaponry. The **GREAT RIFLE CONTROVERSY** has all the earmarks of a good detective novel—suspense, intrigue, and fascinating characters.

THE PLACE: From the Springfield Armory and Winchester Repeating Arms to the battlefields of Vietnam to the meeting rooms at the Pentagon.

THE TIME: 1945 to the present.

THE CHARACTERS: John Garand, the U.S. Army; Robert S. McNamara, design and production engineers.

After World War II, the quest began for a new rifle to replace the Garand M1. It was to be a long search filled with frustration and failure. In this account, Ezell traces the underlying problems—unrealistic military requirements, poor management, disputes with NATO, congressional tight-fistedness, and the failings of the commercial producers—which delayed the delivery of the M14 for many years.

As criticism of the M14 grew, the military began to cast around for another rifle—the M16. After hurried development, the M16 was placed in the hands of combat troops in Vietnam, where serious difficulties ensued.

Was the M14 a product of poor management or the consequence of unimaginative engineering? The American infantry's dream weapon was an automatic rifle that was both lightweight and capable of firing a full-power automatic cartridge. Were these demands incompatible? Could such a weapon be controlled during automatic fire? What were the factors that led to the project's ultimate failure?

The AR-15/M16 was viewed as far from being a reliable replacement for the M14. For more than a

(Continued on back flap)

Jackpot front

In this recent photograph on the front cover, a U.S. Army infantryman holds the M16A1 rifle. His uniform is the new woodland pattern Battle Dress Uniform (BDU) uniform and new kevlar helmet. After a quarter of a century, this rifle is the standard by which other contemporary rifles are judged. Currently, U.S. Marine Corps infantrymen are being equipped with the product-improved version, the M16A2. U.S. Army personnel have been scheduled to receive M16A2s in 1986.

U.S. Army photo by Sp4 Fred Suter

The Great Rifle Controversy

Jon T. Hoffman



The Great Rifle Controversy:

The Great Rifle Controversy Edward Clinton Ezell, 1984 Probes the problems intrigues and controversies involved with the American military's development of the M14 and M16 rifles *The Great Rifle Controversy*, 1986 *The Great Rifle Controversy* Edward Clinton Ezell, 1984 Udviklingen af den amerikanske infanterists hændelser *Crack in the Post-war Anglo-American Alliance* Edward Clinton Ezell, History of Acquisition in the Department of Defense Elliott Vanveltner Converse, 2012 **A History of Innovation: U.S. Army Adaptation in War and Peace** Jon T. Hoffman, 2010-11-29 The U.S. Army has a long record of fielding innovations that not only have enhanced its effectiveness on the battlefield but also sometimes had an impact far beyond warfare General Editor Jon T. Hoffman has brought together eleven authors who cover the gamut from the invention of the M1 Garand rifle between the world wars through the development of the National Training Center in the 1980s While many books lay out theories about the process of innovation or detail the history of a large scale modernization the collection of fourteen essays in *A History of Innovation U.S. Army Adaptation in War and Peace* fills a different niche in the literature This work is neither a historical account of how the Army has adapted over time nor a theoretical look at models that purport to show how innovation is best achieved Instead it captures a representative slice of stories of soldiers and Army civilians who have demonstrated repeatedly that determination and a good idea often carry the day in peace and war Despite the perception of bureaucratic inertia the institution's long history of benefiting from the inventiveness of its people indicates that it is an incubator of innovation after all **History of Acquisition in the Dept. of Defense, Vol. II, Adapting to Flexible Response 1960-1968, 2013**, 2014 **Adapting to Flexible Response, 1960-1968** Walter S. Poole, 2013 Sources of Weapon Systems Innovation in the Department of Defense Thomas C. Lassman, 2009-09 Contents 1 Intro The Sources of Weapon Systems Innovation 2 R The Content of R The Decline of the Arsenal System 3 R Bureau of Aeronautics Bureau of Ships From Bureaus and Laboratories to System Commands and Research Centers 4 R Growth and Diversification The Air Research and Development Command 1950 1961 Reintegration R Coming Full Circle Patterns of Organizational Change in Air Force R 5 Review and Retrospect Biblio **DARPA Technical Accomplishments** Sidney G. Reed, 1990 **Weapon of Choice** Matthew Ford, 2017-02-15 This book examines Western military technological innovation through the lens of developments in small arms during the twentieth century These weapons have existed for centuries appear to have matured only incrementally and might seem unlikely technologies for investigating the trajectory of military technical change Their relative simplicity however makes it easy to use them to map patterns of innovation within the military industrial complex Advanced technologies may have captured the military imagination offering the possibility of clean and decisive outcomes but it is the low technologies of the infantryman that can help us develop an appreciation for the dynamics of military technical change Tracing the path of innovation from battlefield to back office and from industry to alliance partner Ford develops insights into the way that small arms are socially

constructed He thereby exposes the mechanics of power across the military industrial complex This in turn reveals that shifting power relations between soldiers and scientists bureaucrats and engineers have allowed the private sector to exploit infantry status anxiety and shape soldier weapon preferences Ford s analysis allows us to draw wider conclusions about how military innovation works and what social factors frame Western military purchasing policy from small arms to more sophisticated and expensive weapons

In the Shadow of the Garrison State Aaron L. Friedberg, 2012-01-06 War or the threat of war usually strengthens states as governments tax draft soldiers exert control over industrial production and dampen internal dissent in order to build military might The United States however was founded on the suspicion of state power a suspicion that continued to gird its institutional architecture and inform the sentiments of many of its politicians and citizens through the twentieth century In this comprehensive rethinking of postwar political history Aaron Friedberg convincingly argues that such anti statist inclinations prevented Cold War anxieties from transforming the United States into the garrison state it might have become in their absence Drawing on an array of primary and secondary sources including newly available archival materials Friedberg concludes that the weakness of the American state served as a profound source of national strength that allowed the United States to outperform and outlast its supremely centralized and statist rival the Soviet Union Friedberg s analysis of the U S government s approach to taxation conscription industrial planning scientific research and development and armaments manufacturing reveals that the American state did expand during the early Cold War period But domestic constraints on its expansion including those stemming from mean self interest as well as those guided by a principled belief in the virtues of limiting federal power protected economic vitality technological superiority and public support for Cold War activities The strategic synthesis that emerged by the early 1960s was functional as well as stable enabling the United States to deter contain and ultimately outlive the Soviet Union precisely because the American state did not limit unduly the political personal and economic freedom of its citizens Political scientists historians and general readers interested in Cold War history will value this thoroughly researched volume Friedberg s insightful scholarship will also inspire future policy by contributing to our understanding of how liberal democracy s inherent qualities nurture its survival and spread

Rifles David Westwood, 2005-03-01 From the musket to the M 16 rifles have played a major role in battle sometimes tilting the scales in a pivotal moment of war Yet all too often poor decisions and ill conceived innovations resulted in putting inappropriate weapons into ill trained hands with disastrous consequences Ranging primarily from the late 18th century to the present this richly illustrated volume tells the fascinating sometimes problematic history of rifled weapons and ammunition for military use Battle to battle readers will see how faster loading more accurate rifles changed the battlefield Readers will also encounter many instances where decisionmakers chose to issue rifles ill suited for the task at hand when better options were available Author David Westwood has handled every weapon he describes from muskets to breechloaders from repeaters and bolt action rifles to semiautomatics and self loaders His exhaustive research reveals new

insights into both the successes and failures of rifled weapons The result is a fresh look at a common weapon s most uncommon story

The Bradley and How It Got That Way W. Blair Haworth,1999-11-30 The mechanized infantry is one of the least studied components of the U S Army s combat arms and its most visable piece of equipment the Bradley Fighting Vehicle is one of the military s most controversial pieces of equipment This study traces the idea of mechanized infantry from its roots in the early armored operations of World War I through its fruition in World War II to its drastic transformation in response to the threat of a nuclear biological and chemical battlefield The U S Army s doctrinal migration from the idea of specialized armored infantry to that of more generalized mechanized infantry led to problematic consequences in training and equipping the force Haworth explores the origins conduct and outcome of the Bradley controversy along with its implications for Army institutional cultures force designs and doctrines Challenging traditional partisan views of the Bradley program Haworth goes to the roots of the issue The author details the mechanized infantry s problematic status in the Army s traditional division of roles and missions between its Infantry and Armored branches While new conditions demand new equipment old institutions and current commitments inevitably complicate matters thus traditional infantry considerations have driven the Bradley s requirements The raw capability of the vehicle and the fortitude and ingenuity of its users have to some extent compensated for the conflicting pressures in its design However the reluctance of the Army to see mechanized infantry as a specialty has led to the problem the vehicle has faced as this book clearly shows

Conventional Warfare Ronald F. Bellamy,Russ Zajtchuk,1991

Sam Hughes Ronald G. Haycock,Canadian War Museum,1986-10-26 This book is based on the public career of a highly controversial Canadian Sam Hughes 1885 1916 He is one of the most colourful even bizarre figures in Canadian history Though he died in 1921 his name can still conjure up controversy and not a little misunderstanding His long career in so many respects the quintessential story of a poor backwoods Ontario farm boy who made good by his own efforts continues to exert a fascination that few other Canadian political figures could duplicate Even though there has never been a major scholarly study of Sam Hughes historians and other writers have developed definite opinions about him and they are held nearly as vigorously as those of his contemporaries These vary from insisting that Hughes was mentally unbalanced to proclaiming him a genius Hughes defenders have rarely been professional historians Neither side have not produced an extensive or definitive literature on Hughes in proportion to other figures of a similar public stature Whatever side the studies have taken the assessments are still incomplete because they have not examined the entirety of Sam Hughes public life To a large extent these limitations have allowed the folk image of him to persist But Hughes had fibre and substance beyond this Since historical figures must be explained in terms of their environment this study tries to redress the previous imbalances by examining Hughes public career It is the only way his historical significance can be explained and reasonable judgments made

Power to the People Audrey Kurth Cronin,2020 Never have so many possessed the means to be so lethal The diffusion of modern technology robotics cyber weapons 3 D printing autonomous

systems and artificial intelligence to ordinary people has given them access to weapons of mass violence previously monopolized by the state In recent years states have attempted to stem the flow of such weapons to individuals and non state groups but their efforts are failing Based on hard lessons from previous waves of weapons technology such as dynamite and the assault rifle Power to the People explains what the future may hold and how we should respond **Increasing Small**

Arms Lethality In Afghanistan: Taking Back The Infantry Half-Kilometer Major Thomas P. Ehrhart, 2015-11-06

Operations in Afghanistan frequently require United States ground forces to engage and destroy the enemy at ranges beyond 300 meters These operations occur in rugged terrain and in situations where traditional supporting fires are limited due to range or risk of collateral damage With these limitations the infantry in Afghanistan require a precise lethal fire capability that exists only in a properly trained and equipped infantryman While the infantryman is ideally suited for combat in Afghanistan his current weapons doctrine and marksmanship training do not provide a precise lethal fire capability to 500 meters and are therefore inappropriate Comments from returning non commissioned officers and officers reveal that about fifty percent of engagements occur past 300 meters The enemy tactics are to engage United States forces from high ground with medium and heavy weapons often including mortars knowing that we are restricted by our equipment limitations and the inability of our overburdened soldiers to maneuver at elevations exceeding 6000 feet Current equipment training and doctrine are optimized for engagements under 300 meters and on level terrain There are several ways to extend the lethality of the infantry A more effective 5 56 mm bullet can be designed which provides enhanced terminal performance out to 500 meters A better option to increase incapacitation is to adopt a larger caliber cartridge which will function using components of the M16 M4 The 2006 study by the Joint Service Wound Ballistics Integrated Product Team discovered that the ideal caliber seems to be between 6 5 and 7 mm This was also the general conclusion of all military ballistics studies since the end of World War I Silk and Steel Robert L Wilson, 2015-11-10 Silk and Steel Women at Arms is the first comprehensive presentation on the subject of women and firearms No object has had a greater impact on world history over the past 650 years than the firearm and Wilson shows how women have played a vital role in its development Skyhorse Publishing is proud to publish a broad range of books for hunters and firearms enthusiasts We publish books about shotguns rifles handguns target shooting gun collecting self defense archery ammunition knives gunsmithing gun repair and wilderness survival We publish books on deer hunting big game hunting small game hunting wing shooting turkey hunting deer stands duck blinds bowhunting wing shooting hunting dogs and more While not every title we publish becomes a New York Times bestseller or a national bestseller we are committed to publishing books on subjects that are sometimes overlooked by other publishers and to authors whose work might not otherwise find a home *Hearing on National Defense Authorization Act for Fiscal Year 2014 and Oversight of Previously Authorized Programs Before the Committee on Armed Services, House of Representatives, One Hundred Thirteenth Congress, First Session* United States. Congress. House. Committee on Armed Services. Tactical Air

and Land Forces Subcommittee, 2013

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