



Fighter Wing: A Guided Tour of an Air Force Combat Wing (Tom Clancy's Military Referenc)

By Tom Clancy, John Gresham

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- Sales Rank: #2475124 in Books
- Published on: 2004-01-06
- Released on: 2004-01-06
- Original language: English
- Number of items: 1
- Dimensions: 1.34" h x 4.24" w x 6.78" l, .52 pounds
- Binding: Mass Market Paperback
- 496 pages

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Editorial Review

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Now, for the first time, an insider's look at an Air Force combat wing--the planes, the technology, and the people--with Tom Clancy as your guide. Tom Clancy's previous explorations of America's armed forces, *Submarine* and *Armored Cav*, revealed exclusive, never-before-seen information on the people and technology that protect our nation. Now, the acclaimed author of takes to the skies with the U.S. Air Force's elite: the *Fighter Wing*.

With his compelling style and unerring eye for detail, Clancy captures the thrill of takeoff, the drama of the dogfight, and the relentless dangers our fighter pilots face every day of their lives, showing readers what it really means to be the best of the best.

Fighter Wing includes:

- Detailed analyses of the Air Force's premier fighter planes, including the F-15 Eagle
- Exclusive photographs, illustrations, and diagrams
- An insider's look at the people behind the planes and weapons
- Combat strategies and training techniques used by the U.S. Air Force

About the Author

Since the phenomenal worldwide success of "The Hunt for Red October", his controversial, ground-breaking first novel, Tom Clancy has become one of the world's fastest-selling thriller writers. Three of his novels have been made into highly successful films: "The Hunt for Red October", "Patriot Games" and "Clear and Present Danger". He is also the author of several non-fiction books on military subjects, and the co-creator of the "Op-Centre" series. He lives in Maryland, USA.

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In August 1914, a British aviator patrolling the skies above Mons, in Belgium, spotted the advance of von Kluck's German army toward the British Expeditionary Force. Interviewed for TV five decades later, the pilot recalled the reaction of senior officers when he reported the news . . . they didn't believe him. Pilots soon took cameras with them to give proof of their sightings to skeptical general officers whose vision was limited to the view from the ground.

Before long, both sides were flying reconnaissance missions, and hostile aviators were firing pistols at one another. Then machine guns. And soon after that, aircraft were designed as aerial killers -- the first fighters. They were delicate, unstable constructs of wood and wire, usually underpowered by inefficient engines. But they could fly. And the learning curve was steep back then. One day, someone asked, "If you can hang one engine on an airframe, why not two, or even more? If you can see to shoot, you can see to drop a weapon, can't you?" Thus began the age of the bomber.

It was the Germans at Verdun, in the bitter weather of February 1916, who first made actual the concept we now call airpower -- the systematic application of tactical aircraft to control a battlefield (the definition will change and develop). The objective was to seal off the battlefield from French aviation, denying the enemy the ranging eyes needed to see behind the German trench lines; and as it turned out, the plan didn't work terribly well. Still, others saw what the Germans tried, and recognized that it could be made to work. By the

end of the war, aircraft were attacking infantry on the ground. And for the first time soldiers knew what field mice had long understood: The target of an aerial predator feels as much psychological burden as physical danger.

Between the wars, a handful of visionary officers in Britain, Italy, Germany, Japan, Russia, and the United States grappled with the theory of airpower . . . and with its practical applications in the next, inevitable war. The most famous of these, the Italian Giulio Douhet, proposed the first great "philosophy" of airpower: Bomber and attack aircraft can reach far into the enemy's rear to attack the factories that make the weapons and the railroads and roads and bridges that transport them to the fighting front. It was Douhet's view that airpower alone -- without armies or navies -- could bring victory in war. In other words, if you smash enough factories, railroads, roads, and bridges, you'll bring your enemy to the point where he will lie down and wave the white flag.

Douhet was too optimistic. An air force is remarkable not only for what it can do, but for what it cannot. The unchanging truth of warfare is that only infantry can conquer an enemy -- infantry is people, and only people can occupy and hold ground. Tanks can roll across ground. Artillery can punish and neutralize ground. And airpower -- which is at heart longer-range artillery -- can punish and neutralize over long distances. But only people can take up residency there.

Yet airpower can have a powerful effect, and this fact was not lost on the German General Staff. In May 1940, when another German attack violated French soil at a place called Sedan, French soldiers excused their rapid departure from the battlefield by saying, "But mon lieutenant, bombs were falling."

The second global conflict announced the importance of airpower in terms that no one could ignore. Now, huge fleets of aircraft attacked everything they could reach -- and that reach was ever growing, for aviation science advanced rapidly. Engineering talent tends to follow the excitement of discovery and possibility. Engineers who had once devoted their skills to developing steam engines for ships or railroad locomotives found more exciting work. The great breakthroughs in engine power came first, and those drove improvements in airframe design.

By the beginning of the Second World War, Daimler-Benz and Rolls-Royce had both developed water-cooled in-line engines exceeding a thousand horsepower. In America, Allison did the same, and Pratt & Whitney began production of their monster, two-thousand-horsepower R-2800 radial engine in East Hartford, Connecticut. More efficiently cooled, simpler, and capable of absorbing catastrophic battle damage, the Double-Wasp and its close relatives would power a variety of successful tactical aircraft (F-6F Hellcat, F-4U Corsair, TBF/TBM Avenger, P-47 Thunderbolt, etc.), plus numerous types of bombers and transport aircraft.

The Republic P-47 Thunderbolt, called "the Jug" by its pilots for its brutal and decidedly ungraceful lines, was originally designed by Alexander Cartvelli as a high-altitude interceptor, and it would distinguish itself as an escort fighter for the bomber fleets of the 8th Air Force over Germany. But the Thunderbolt carried a total of eight heavy .50-caliber machine guns, and could also carry bombs and rockets. Its rugged construction and immense armament rapidly led pilots to experiment with other forms of hunting. Soon Jug drivers were flying low on missions they sometimes called Rodeos, for their wild and woolly character: If it moved, it was fair game. Such missions inspired the German Army to coin a new word, *Jabo*-short for *Jagdbomber*, literally "hunting bomber," spoken with alarm and respect.

But the P-47 was more than that. Other countries had aircraft with similar missions. The Russian Il-2 was a dedicated low-level attack bird with an evil reputation among those whom it hunted, but it required a fighter escort. The Thunderbolt was something else. It could hold its own in a swarm of enemy and friendly fighters

-- now called a "furball" -- and go low to make life miserable for the people on the ground. And that -- though hardly recognized at the time -- was a revolution of sorts. Using a single aircraft for more than one mission was so logical that the Jug's ability to do more than one mission well seems to have been overlooked. Alexander Cartvelli accidentally invented the multi-role aircraft. Today, the name of the game is multi-role aircraft.

So just what can airpower do? It can make life thoroughly miserable for an enemy -- especially if you can hit exactly what you want to hit. Toward this goal, America continues to lead the world. "If you can see it, you can hit it," goes the saying. Following this usually comes, "If you can hit it, you can kill it." That way of thinking shaped American air doctrine. Dive bombing and close air support were first systematized by the United States Marine Corps in Nicaragua during their early interventions there. In the late 1930s, the Army Air Corps (later the Army Air Force) adopted the ultra-secret Norden bombsight to bring systematic accuracy to high-altitude bombing. In World War Two, the AAF experimented successfully with the "Razon" and "Mazon" TV-guided bombs. And the Germans conducted similar experiments, sinking an Italian battleship with their radio command guided Fritz-X bombs.

Such weapons have been improved over the years. Most of us can remember watching "the luckiest guy in Iraq" on CNN. During the Gulf War, his car was perhaps two hundred yards from the impact point of a two-thousand-pound guided bomb on an Iraqi bridge. Bridges are always worth destroying. So are factories, aircraft on the ground, radio and TV towers, and microwave relays. So too, especially, are the places which generate signals and commands . . . because commanders are there, and killing commanders is ever the quickest way of disrupting an army. Or a whole nation. Using precision-guided munitions can be likened to sniping with bombs. All warfare is cruel and ugly, but such munitions are less cruel and ugly than the alternatives.

With the recent advent of precision-guided munitions to attack the command centers of the enemy nation with great selectivity and deadly accuracy, the promise of airpower is finally being realized. But this fulfillment is not always what people wish it to be. You want a "surgical strike," find yourself a good surgeon. Surgical strikes do not happen in war. Yet the phrase continues to be approvingly employed in speeches by those (usually by elected or appointed politicians) who don't know what the hell they are talking about. To state things simply, surgeons use small and very sharp knives, held with delicacy by highly trained hands, to invade and repair a diseased body. Tactical and strategic aircraft drop metal objects filled with high explosives to destroy targets. The technology is much improved over what it once was, but it will never be surgically precise. Yes, the qualitative improvement over the past fifty years is astounding, but no, it isn't magical. All the same, you would be wise not to make yourself the object of the deadly attention of American warplanes.

The newest revolution-also American in origin-is stealth. When researching **Red Storm Rising**, I traveled to what was then the headquarters of the Tactical Air Command at Langley Air Force Base in the Virginia Tidewater. There, a serious and laconic lieutenant colonel from Texas looked me straight in the eye and announced, "Son, you may safely assume that an invisible aircraft is tactically useful."

"Well, gee, sir," I replied, "I kinda figured that out for myself."

Seemingly a violation of the laws of physics, stealth is really a mere perversion of them. The technology began with a theoretical paper written around 1962 by a Russian radar engineer on the diffraction properties of microwave radiation. About ten years later an engineer at Lockheed read the paper and thought, "We can make an invisible airplane."

Less than ten years after that, such an airplane was flying over a highly instrumented test range and driving

radar technicians to despair. Meanwhile men in blue suits slowly discarded their disbelief, saw the future, and pronounced it good. Very good. Several years later over Baghdad on the night of January 17th, 1991, F-117A Black Jets of the 37th Tactical Fighter Wing proved beyond question that stealth really works.

The stealth revolution is simple to express: An aircraft can now go literally anywhere (depending only on its fuel capacity) and deliver bombs with a very high probability of killing the target (about 85 to 90% for a single weapon, about 98% for two), and in the process it will give no more warning than the flash and noise of the detonation. Meaning: The national command authorities (an American euphemism for the president, premier, or dictator) of any country are now vulnerable to direct attack. And for those who believe that the USAF was not trying to kill Saddam Hussein, be advised that maybe his death was not the objective. Maybe we were just trying to turn off the radio (i.e. command-and-control system) he was holding. A narrow legal point, but even the Pentagon has lawyers. However one might wish to put it, we were trying, and Hussein was a lucky man indeed to avoid the skillful attempts to flip off that particular switch. Whoever next offends the United States of America might wish to consider that. Because we'll try harder next time, and all you have to know is where that offending radio transmitter is.

As in **Submarine** and **Armored Cav**, I'll be taking you on a guided tour of one of America's premier fighting units and its equipment. In this case, the unit is the 366th Wing based out of Mountain Home AFB, Idaho. As organized today, the 366th is the Air Force's equivalent of the Army's 82nd Airborne or 101st Air Assault Division -- a rapid-deployment force that can be sent to any trouble spot in the world on a moment's notice. The 366th's job is to delay an aggressor until the main force of USAF assets arrive in-theater, ready to go on the offensive. But before we visit these daring men and women in their amazing flying machines, let's take a look at the technologies that enable an aircraft to move, see, and fight.

-- from **Fighter Wing**

by Tom Clancy

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Users Review

From reader reviews:

John Caldwell:

Have you spare time to get a day? What do you do when you have much more or little spare time? Yeah, you can choose the suitable activity intended for spend your time. Any person spent their spare time to take a stroll, shopping, or went to the particular Mall. How about open or maybe read a book entitled **Fighter Wing: A Guided Tour of an Air Force Combat Wing** (Tom Clancy's Military Referenc)? Maybe it is to become best activity for you. You recognize beside you can spend your time together with your favorite's book, you can wiser than before. Do you agree with it is opinion or you have other opinion?

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The book untitled **Fighter Wing: A Guided Tour of an Air Force Combat Wing** (Tom Clancy's Military Referenc) is the reserve that recommended to you you just read. You can see the quality of the reserve content that will be shown to you actually. The language that article author use to explained their way of doing something is easily to understand. The copy writer was did a lot of analysis when write the book, hence the information that they share to you is absolutely accurate. You also could get the e-book of **Fighter**

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Edward Orr:

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