

aircraft tanks. In fact, the German supply network had begun to falter during the advances of the summer. It proved impossible to sustain the front-line units using the primitive Russian rail and road network. The Russian railways used a wider track than the German system, and it took longer than anticipated to convert them.

It did not help that the German forces had been fitted out with vehicles from all over Europe. There were 2000 different types in service, with few interchangeable parts. Army Group Centre's spare parts inventory ran to over one million items. By early autumn the Luftwaffe had been forced to ferry its own supplies forward in bombers – in fuel and other essential supplies were all held up in bottlenecks from Poland to the Smolensk–Moscow highway.

The Russians attacked on 5 December. The temperatures plummeted to minus 15 degrees Celsius and snow lay more than a metre (3ft) thick in places. Unable to dig in properly, the undermanned German units were torn apart; the few serviceable German tanks were unable to manoeuvre and the fuel was much hundreds of kilometres behind the front.

Luftwaffe helplessness

The Luftwaffe was unable to help its aircraft tank as enough of fuel tanks to get airborne even if the ground units maintained fire under the engines overnight to keep them from freezing. Russian force tanks, the T-34 and KV-1, had wide tracks and

engines designed to keep running even in Arctic weather. Russian guns and small arms were similarly robust, and their aircraft were simple but reliable, built to function in snow or mud.

The infamous disastrous German Army fell apart. It had suffered some 750,000 casualties between June and December, and losses started once the full fury of winter descended. The army reported over 100,000 frostbite cases in December alone. Frostbite caused more hospitalisation than Russian guns. Hypothermia would soon be killing more.

LONG RANGE RECONNAISSANCE UNIT EQUIPMENT JAN 1942

Luftwaffe Unit	Type	Strength	Serviceable
AGr Gr (Det), 1 (Gr 1) 1/1/42-48		16	4
AGr Gr (Det), 4 (Gr 1) 1/1/42-48		24	12
FFXG 1	BF 110	7	0
BFV13 AN	Ju 88	8	4
BFV11	Do 17/For 189	7	1
BFV11 AN	BF 110	6	2
BFV11	Ju 88	18	3
BFV14	Ju 88	14	4
FFXG2	Ju 88	6	1
BFV12	Ju 88	6	1
1/188	Do 17	8	2
2/188	Do 17	11	4
4/188	Do 17	7	2
BFV121	Ju 88	12	2
BFV122	Ju 88/FF 110	16	4
BFV123	Ju 88/FF 110	12	0
Total		182	58

The 'Swastika' badge carried by the BF 110-2 was the unit insignia of 8. Staffel, 8/24. The aircraft also carried the Reichswehr 'Iron Heart' and the third and cross badge of 8. Gruppe.



Specification	
Type 1	Reconnaissance (1942-1943) and night fighter (1943-1944)
Engine (max output)	BMW 132A (1,000 hp) and BMW 133A (1,100 hp)
Max speed (altitude)	350 mph (560 km/h)
Range (max altitude)	1,500 miles (2,400 km)

• Messerschmitt BF 109-2

8 Gruppe, 8/24 Gruppe

This BF 109 was in operation on the western sector of the Eastern Front during the fighting around Leningrad early in 1942. The distinctive 'Iron Heart' camouflage was applied directly onto the standard green summer paint scheme.



Specification

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• Messerschmitt BF 109-2

8 Gruppe, 8/24 Gruppe

Based at Leningrad in 1942, the early 'Iron Heart' model of the BF 109 carried the Reichswehr 'Iron Heart' emblem as well as 8. Gruppe's cross, which is the only insignia of 8. Gruppe, which the unit had originally been based on (1942-43).



• Focke-Wulf Fw 189A-1

1. Gruppe

This aircraft served as a reconnaissance platform in the Baltic, and was based at Rostock in southern Poland in 1942. The distinctive 'Iron Heart' camouflage was applied directly onto the standard green summer paint scheme.

Specification

Type 1	Reconnaissance (1942-1943) and night fighter (1943-1944)
Engine (max output)	BMW 132A (1,000 hp) and BMW 133A (1,100 hp)
Max speed (altitude)	350 mph (560 km/h)
Range (max altitude)	1,500 miles (2,400 km)

Mastery of the air

JANUARY–MAY 1942

Overextended during Operation Barbarossa, German armies had been checked for the first time in the last month of 1941. Beaten back by fierce Soviet counter-attacks from Leningrad to the Crimea, Hitler's war machine was slowly freezing to a standstill.

THE FLOOD NIGHTINGALE of early 1942 induced numerous problems of the invaders. The Soviet Northwest Front broke through in the Volga hills, encircling several divisions in turn. In each case, the trapped German troops were clustered around an airfield. With the Luftwaffe flying in supplies, they continued to defend their prisoners until relief was at hand, or – in the case of General von Seydlitz's six divisions at Dnepropetrovsk – broke out. Seydlitz's men took a month to make their way to safety across the

snow. Their epic escape was sustained by parachute drops and an iron determination never to surrender.

In the euphoria that greeted their escape, the German High Command overlooked the physical state of the survivors: months of combat on the frozen steppes with inadequate rations, medical and sanitary facilities had left many men unfit for further service. The Germans also drew the comforting conclusion that they could keep encircled units supplied by air. It was an assumption that would be

Luftwaffe Squadrons 193945

Gordon L. Rottman



Luftwaffe Squadrons 1939-45:

German Military Police Units 1939-45 Gordon Williamson, 2012-06-20 The military policeman must be one of the least appreciated yet most indispensable military figures in modern history In the mobile warfare of the 20th century no army could keep its vital supply routes open without the military policeman This book documents the organisation uniforms and insignia of the many and varied German military police units of World War II Their duties included traffic control maintaining military order and discipline collection and escorting prisoners of war prevention of looting disarming civilians checking captured enemy soldiers for documents collection of fallen enemy propaganda leaflets and providing street patrols in occupied areas

Luftwaffe Air & Ground Crew 1939-45 Robert F Stedman, 2012-11-20 The Luftwaffe honed in the Spanish Civil War played a vital part in Germany's Blitzkrieg victories in 1939-41 Badly overstretched by war on three fronts in 1942-44 it was crippled by an incompetent commander in chief the losses among experienced aircrew and shortage of fuel In 1944-45 it faced a final battle of attrition in skies ruled by the Allies as the Eastern and Western pincers closed on the Reich but until the very end the dwindling band of veteran pilots among them the greatest aces the world has ever known presented a potent threat This fact packed review of Luftwaffe uniforms and flying kit is illustrated with rare personal photos insignia charts and two dozen meticulously detailed colour figures

Panzer Crewman 1939-45 Gordon Williamson, 2012-06-20 In World War II the Panzer crews spearheaded every major campaign or battle from the invasions of Poland and France to the last great counter offensive in the Ardennes Germany's Panzer crews fought on every front and along the way earned a formidable reputation for skill in attack and steadfastness in defence This book charts the recruitment training service conditions and combat experience of a typical World War II German tank crewman serving on various fronts from the scorching heat of the Western Desert to the frozen tundra of the Eastern Front It features many unpublished photographs from both private collectors and Panzer veterans themselves

Jagdgeschwader 1 'Oesau' Aces 1939-45 Robert Forsyth, 2017-12-28 Formed shortly after the outbreak of World War 2 and equipped with Messerschmitt Bf 109Es Jagdgeschwader 1 was initially tasked to defend the regional North Sea and Baltic coastal areas and Germany's main port cities and naval bases The greatest task for JG 1 though came after 1942 in its defence of the Reich against the US Eighth Air Force's B 17s and B 24s bearing the brunt of defence against increasingly regular larger and deep penetrating USAAF daylight bomber raids with fighter escort Levels of attrition subsequently grew but so did experience among the leading aces who were often the subject of propaganda films and literature Many of Germany's most famous World War 2 aces flew with JG 1 including Herbert Ihlefeld 132 victories Heinz B r 220 and Walter Oesau 127 piloting Bf 109Es Fw 190s and the Heinkel 162 jet fighter Packed with photographs and profile artwork and revealing first hand accounts this is the compelling story of the Luftwaffe fighter pilots who battled to defend the skies of Germany

German Army Elite Units 1939-45 Gordon Williamson, 2012-03-20 In World War II a number of German Army units and divisions were classed as elites and were

distinguished by special insignia of various kinds For some this status was simply a matter of lineage e g the Infantry Regiment List which traced its identity to the Bavarian unit with which Hitler had served in World War I Some like the Grossdeutschland and Panzer Lehr divisions were raised from particularly high grade personnel Other titles honoured extraordinary battlefield exploits or heroic sacrifice like the Brandenburg and Hoch und Deutschmeister divisions This fact packed introduction to these famous units is illustrated with rare photographs and detailed colour plates **Fighter**

Command Air Combat Claims 1939-45 John Foreman,2003 An essential reference series listing every combat claim submitted by RAF fighter pilots during World War Two Part One covers the Fall of France and Battle of Britain Part Two covers the period after the Battle of Britain when RAF Fighter Command went on the offensive over Occupied Europe

The West at War 1939-45 Nick Maddocks,2005-04-21 The West at War due to accompany a major 6 part series for ITV1 West of England produced by Testimony Films and to be broadcast across May June 2005 commemorates the 60th anniversary of the end of World War II and features the stories of servicemen and women from Bristol and the South West

The German Army 1939-45 (5) Nigel Thomas,2012-08-20 This book covers the high command the developments in unit organisation the campaigns and the uniforms and equipment of the German Army in the last two years of the war in North West Europe and Italy Despite the huge pressure of fighting on three fronts ever worsening shortages of manpower and equipment and Allied command of the skies Germany's decimated divisions fought on with impressive skill and determination This period also saw a fascinating mixture of obsolescent newly designed and field made combat clothing which gave the German soldier a radically different appearance from his predecessor of just five years before Men at Arms 311 316 326 330 and 336 are also available in a single volume special edition titled German Army in World War II [The Aerial War: 1939-45](#)

David Baker,2020-06-01 The war is a war of machines it will be won on the assembly line Lord Beaverbrook Minister of Aircraft Production Just as vital as the battle on land or the struggle at sea the air war ultimately tipped the balance of power in World War II Many campaigns rode on the capabilities of their airforce as British Spitfires were pitted against Messerschmitt Bf 109s and Japanese Zeros Aerospace expert David Baker explores this battle in the skies detailing the technical leaps that were made and little known histories about the men and women involved from pilots to factory workers Featuring magnificent photographs and illustrations The Aerial War gives a brilliant insight into many key battles and highlights the integral role that aviation played in securing an Allied victory **Blitz on Britain 1939-45** Alfred

Price,2016-07-22 During the latter half of the 1930s the fear of a possible aerial knock out on Great Britain became a dominating factor in the formulation of national policy This text examines how justified these pre war fears were in light of the Luftwaffe's capabilities in 1939 and describes the bombing attacks on Britain during the years that followed together with the operations of the defences to parry them From the start the air defences proved able to take a heavy toll on the bombers attacking Britain by day By night it was a different matter Initially the fighter and gun defences were lucky if

between them they were able to knock out one or two bombers out of three or four hundred involved in a night attack From this poor beginning the defences improved out of all recognition and when the Germans launched a series of attacks on London early in 1944 it cost them one bomber and four trained crewmen for every five British civilians killed Blitz on Britain makes compelling reading for anyone interested in the Luftwaffe s wartime raids on Britain and how the air defences ultimately succeeded in defeating this long running aerial onslaught **Cambridgeshire at War 1939-45** Glynis

Cooper,2020-03-20 Few could believe that within twenty years of the war to end all wars being won the world was once again at war Veterans of the Great War feared going through the same thing again and even worse many knew that this time their children would also be involved in the fighting What had all the sacrifice been about Cambridgeshire the city of Cambridge and the University of Cambridge were badly hit by the Great War with many lives lost families ripped apart and a way of life that had changed forever Building and economic recovery had been hindered by the Great Depression The county was not ready to face another war nor for the problems of warfare in the air Yet somehow the county the city and the university all found the strength to unite against the enemy once more and ensure that Germany would never win the war The book chronicles life on the Home Front during the Second World War which itself reached into every home and affected every citizen changing the life and the face of the county It is also a timely reminder of the difficulties hardships restrictions and morale faced by the city as the war dragged on and how the local community overcame the odds that were stacked against them Bath at War, 1939-45 David Lassman,Nigel Lassman,2018-11-30 Bath at War 1939 45 is a comprehensive account

of the citys experience of the conflict covering in detail life on the Home Front set against the background of the wider theatres of war The narrative of that global struggle is given with a focus on the ordeals endured by the people of Bath as they cheered their men and women fighters off to war welcomed thousands of evacuated men women and children to the city and faced the full might of Hitlers Luftwaffe Rare insights into the life of the war torn city are included along with untold stories from the footnotes of history from the Bath blitz to the influx of American GIs The book incorporates memoirs and memories along with in depth research from official records and newspaper accounts so the reader sees the war from the perspective of ordinary people although the military experiences of Baths citizens and in many cases their tragic sacrifices are also included More controversial topics are also touched upon such as civil defense military injustice racism and local politics to give a full and fascinating picture of a great city facing profound trials of endurance and courage thus revealing the many characteristics which has sustained Bath throughout its illustrious history **Kent at War 1939-45** Tanya

Wynn,2019-06-30 This comprehensive account of the southern English county during WWII covers everything from the Dunkirk evacuations to the Battle of Britain and more Located along the English Channel the southeastern county of Kent played a significant role in the Second World War This volume covers Kent s many contributions both civilian and military throughout the conflict The chronicle details how the Dover Patrol kept Allied shipping safe in the English Channel as well as

the preparation and aftermath of the Dunkirk evacuations of May 1940 with all of the vessels leaving from and returning to Kent ports and harbors Kent's numerous airfields were of vital importance during the Battle of Britain between July and October 1940 The Richborough camp set up in 1939 at the old First World War Kitchener barracks provided safe haven to thousands of German and Austrian Jewish refugees This book includes never before published letters written to one of the camps residents during his stay there Historian Tanya Wynn also discusses the county's military hospitals and POW camps its Victorian Cross and George Medal winners and the restricted areas that adorned the coast as the people of Kent batted down the hatches knowing that they were the very first line of defense in case of a German invasion

Populist Hearsay of 1939-45 Andrew Sangster, 2020-04-30 World War II produced many histories which differ according to when and by whom they were written Many historians tend to write in order to justify their home nation In the recent Brexit debate it was claimed many times that we won the war and we do not need Europe politicians were as guilty of this as everyone else Britain survived rather than won the war single handedly and managed only because of the Allies In France at the L H tel National des Invalides in a museum dedicated to World War II the photographs and notes tended to imply that Germany was defeated by the French with some American assistance All countries have their bias and special points of view regarding their shared history of World War II always somewhat nationally self centred This book confronts these nationalistic populist views and in places challenges accepted versions of traditional national histories

German Combat Equipments 1939-45 Gordon L. Rottman, 2013-08-20 The field equipment of the German Army in World War II was closely related to that used throughout World War I and earlier yet it was of relatively light weight ruggedly constructed well designed functional and generally of a high quality though this deteriorated in the later war years A high degree of design standardisation was maintained in most categories of equipment though materials and their colours often varied widely There were also many different specialisations for the various arms of service as well as theatres of combat such as the Afrikakorps in the Western Desert This title investigates all manner of German combat equipments throughout World War II from belt buckles to magazine pouches

Hampshire at War, 1939-45 Murray Rowlands, 2018-03-30 Hampshire at War 1939-45 looks at the pivotal role Hampshire played during the Second World War including principal details of the genesis for D Day and how the Battle for Britain happened on a day by day basis The author highlights the people's experience of total war from the blitz in Portsmouth Gosport and Southampton along with raids throughout the county not to mention the role played by the Royal Navy at sea and in the dockyards As well as saluting the role of civilians who created and built Spitfires and Hurricanes the book places a rightful spotlight on the role Hampshire's women played in the final victory Hampshire's major effort towards final victory arose from the towns and hamlets of the county Training for the secret war and espionage took place in Beaulieu and the training for the Cockleshell Heroes took place around Southsea Hampshire's war involved the arrival of men and women from all over the world but in particular from Canada and America with important cultural changes for everyone

living there When invasion threatened in 1940 a defence of Britain had to be organised and Hampshire's coast was particularly vulnerable Details of how German troops would be resisted after landings in the Solent and along Hampshire's coast are also explored Hampshire at War 1939-1945 traces the progress of evacuating its children from vulnerable cities such as Southampton and Portsmouth and records the experiences of the children themselves But most importantly Murray Rowlands provides the experience of living through the Second World War as it happened **The British Army 1939-45**

(1) Martin Brayley, 2013-06-20 The Second World War was Britain's last conflict as a world power For a year it saw Britain standing alone against the fascist dictatorships winning it demanded the sacrifice of the entire national wealth This first book of three describes the uniforms developed for European service It traces the appearance of the Tommy from pre war mobilization through the years of defeat and endurance to D Day and the long fighting advance to Northern Germany The book also includes a campaign summary infantry organization tables lists of arms and services and basic specifications of a number of heavy weapons **Aberdeen at War 1939-45** Craig Armstrong, 2020-10-19 A close up look at what World War II was like for this Scottish city the second most raided in Britain Includes photos Scotland was of grave strategic importance during WWII due to its geographical position while its capital hosted many military and civil organizations Further north Aberdeen possessed significant shipbuilding facilities including Hall Russell Co which built such vessels as corvettes and frigates resulting in the yard being targeted by the Luftwaffe on multiple occasions The fishing fleet was also crucial in supplying food for a war starved Britain and many Aberdeenshire men risked their lives putting out to sea Many were killed by enemy aircraft or mines No member of the population escaped the war whether it was the many men and women who served in the military or in roles such as the Home Guard ARP services nursing working in vital war industries or struggling to keep a household under strict rationing and wartime stress Aberdeen was originally classed as a neutral area and no plans were made for evacuation By 1940 however anger and frustration drove many to petition for changing this classification The petitioners were likely proved correct as Aberdeen went on to become the most frequently raided city after London in Britain earning it the nickname the Siren City It was also the site of the final Luftwaffe attack on Scottish soil when a concerted attack was made on April 21 1943 resulting in 125 deaths and about 12 000 houses destroyed or damaged Aberdeenshire also played a large role in the war effort in the air It was ideally placed to enable the RAF to patrol not only northeast Scotland but also the North Sea and vital approaches to the naval base at Orkney while the RAF also launched raids on occupied Norway and enemy shipping Aberdeen at War 1939-1945 poignantly commemorates the efforts and achievements of Aberdeen workers fighters families divided all surviving astounding tests **Sunderland at War 1939-45** Craig Armstrong, 2020-08-31 This local history explores the wartime contributions and sacrifices of a strategically significant English port town during WWII Located on the River Wear Sunderland was a vital hub for shipbuilding and coal exportation During the Second World War these important attributes marked it as a prime target for the Luftwaffe The town experienced

numerous air raids including one which caused devastating casualties and structural damage The authorities struggled to provide adequate shelters and Air Raid Precautions services Sunderland also had a proud tradition of military service Many joined the local Army regiment the famed Durham Light Infantry which saw action in almost every theater of the war Other brave Wearsiders joined the Merchant Navy the Royal Navy and the Royal Air Force Some served in Bomber Command seeking vengeance for the brutal bombing of their home town North Northumberland at War, 1939-45 Craig Armstrong, 2017-05-31 In 1939 North Northumberland shared a proud tradition of military service with its wider region and this was reflected in the huge numbers of men and women from the area who came forward for service in the military or in roles such as the Home Guard ARP services or nursing This part of Northumberland was a key recruitment centre for the local county regiment the Royal Northumberland Fusiliers with men from the area being heavily involved in the fighting during the blitzkrieg of France and the Low Countries the miracle of Dunkirk as well as many more battles Yet to the dismay of many an entire territorial battalion was taken prisoner at Singapore This district was also vital as a training area with the wide and relatively uncluttered skies being widely used for the training of aircrew one airfield played a key role in the build up to D Day In addition to combat and training this area was also rich with fertile land and so played a crucial role in the war effort as it supplied food to its own communities and wider Britain Many communities in the area welcomed evacuees from urban Tyneside whilst also welcoming servicemen especially from the RAF into their homes Others saw the business opportunities and this book includes accounts of the struggle that many families faced in coping with rising wartime prices longer working hours and endless worry Despite the hardships the people of North Northumberland undertook they all bundled together and continued to provide incredible charitable support right up until the end of the war in addition to their normal efforts They managed to maintain their morale throughout the majority of the war despite rationing blackout and wartime restrictions North Northumberland at War 1939 1945 poignantly commemorates the efforts and achievements of Northumberland's northern communities farmers fighters families divided all surviving astounding feats

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