

R E S T R I C T E D

AIR HISTORICAL BRANCH

Translation No. VII/158

REPORTS OF PHYSICAL DAMAGE
RESULTING FROM
ALLIED AIR ATTACKS ON GERMANY,
1943

Issued by:-
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R E S T R I C T E D

G.11042/NLR/9/56/

R E S T R I C T E D

ALLIED AIR ATTACKS ON GERMANY - 1943

This document is made up of translations of such German Raid Reports as are available. It is appreciated that some important raids by British and American Air Forces are not included. On the other hand some raids of lesser importance and weight are mentioned, partly because they form part of a major raid on a nearby town and partly to illustrate a growing strength and weight of attack.

The heavy raids on Hamburg in July/August are not shown in the main body of the document. They have been dealt with in another report (CD.706a) from the ARP/CD aspect and at Appendix A to this document is a report of the effect of all raids within this period, July/August.

At Appendix B and C respectively are a Chronological and a Town Index of raids referred to in the document. Towns shown between () in Appendix B were secondary and not primary targets but of course are shown as individual targets in the German documents.

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ALLIED AIR ATTACKS ON GERMANY - 1943

AACHEN.

13/14 July

E. 1679 - Chief, Orpo.
8a 1151 - Min. of Pub.
Inf. & Prop.

The raid lasted from 0050 hours to 0300 hours and was carried out by some 250 aircraft. Fires were started in all parts of the town area, of which the inner town was worst affected.

Bombs dropped: 600 mines and H.E.
140,000 incendiaries
21,000 phosphorous bombs

Fires: 306 major, 419 medium & 1,137 smaller fires.

Damage to houses: 3000 destroyed
1500 severely damaged
1157 medium damage
1165 slightly damaged.

Casualties: 294 dead, 4578 injured, 40 missing and
40 - 50,000 homeless.

The following were among the public buildings which were set on fire: Police H.Q., Town Hall, Regional Office of the Post Office, Treasury, Army Supply Office, Central Station, and the stations Nord and Rote Erde.

The Engelbert Rubber Factory and the armaments firm of Gabel & Lahmeier and a number of industrial firms, mainly textile, were affected by fire. Of 24 textile factories hit 16 were destroyed.

Government House was destroyed, the signals network interrupted and the police radio network destroyed. Water supplies failed partially due to numerous instances of damage to the mains network. The gas-meters were hit and burnt out and in addition numerous fractures in the mains and instances of damage to connecting pipes. The electricity supply was also out off. The permanent way of the railway was destroyed in many places by direct hits. 18 passenger coaches and 16 goods trucks were burnt out. The Chief Administrative building of the Municipal Transport Concern and the mechanical workshops of the Aachen Tramway Co. were completely destroyed, as well as much damage to the overhead cables and the tracks of the tramway network, particularly in the City centre. Three banks were destroyed. Severe damage was also caused to the Technical High School.

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The following firms were either destroyed or severely damaged:

Veltrup Aero-engine Factory
Talbot Coach Factory
Krantz Machine Factory
Inon Glass Factory

The newly constructed Fuse Department at the Trumpf Chocolate Factory was destroyed.

Two infantry barracks were damaged and there was considerable interference with telephone communications.

BERLIN. 27/28 MARCH
E. 624 - Min. of Pub.
Inf. & Prop.

The alarm lasted from 2211 hours until 0013 hours, during which time 60 - 70 aircraft attacked in several waves, both at high altitude and at low level. The south and south-west suburbs were mainly affected.

Bombs dropped: 2 mines
10 H.E.
3000 incendiary bombs
40 phosphorous bombs
100 flares
10 photoflash bombs

Casualties: 101 dead, 199 injured, 800 homeless. These figures include 80 killed and 101 injured members of the Armed Forces who were casualties in a leave train.

5 industrial concerns were damaged, also 1 military and 1 railway installation.

BERLIN 29/30 MARCH
As above.

About 50 aircraft attacked from a high altitude between 0120 hours and 0324 hours.

Bombs dropped: 6 mines
80 H.E. (12 D.A.)
3000 incendiary bombs
96 phosphorous bombs
100 flares.

Casualties: 148 dead, 373 injured, 36 missing and 1700 homeless.

The Wuhlheide Water Works was damaged by fire. The Oberspree Transformer Station was destroyed by H.E., thus depriving the nearby A.E.G. works of power.

BERLIN 23/24 AUGUST
As above &
E. 1679 - Chief Orpo.

Between 2341 and 0235 hours some 300 - 400 machines attacked from the south-west and west at high altitude. The main weight

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was directed against the residential districts of Steglitz, Schoeneberg, Wilmersdorf and Tempelhof.

Bombs dropped: 171 mines
1000 H.E. (200 duds or D.A.)
250,000 incendiary bombs
20,000 phosphorous Bombs/drums
400 oil bombs
500 flares.

Casualties: 854 dead, 2308 injured, 85 missing and 113213 homeless.

Among the buildings and businesses damaged are the following:

A barracks in Charlottenburg
The Steglitz Power Station
Charlottenburg Station
The Officers' School at Koepenick
Army Food Office, N.W. 87
Barracks of the Leibstandarte, Adolf Hitler in Lichterfelde
Buildings at the Tempelhof Airfield
Askania Works, Mariendorf
Blaupunkt & Opta Radio, Steglitz
Mariendorf Gas Works
Schoeneberg Gas Works
Heko Works
Kloeckner-Humboldt-Deutz, Tempelhof
Lorenz A.G., Tempelhof
Maybach Engines
Adam Opel A.G.
Siemens Works, Mariendorf
Siemens Apparate, Marienfelde
Weser Flugzeug A.G. Tempelhof
Zeiss-Ikon, Friedenau
Minister Rosenberg's villa in Wilmersdorf was hit by H.E. and partially demolished.
At Siemens Apparate, Marienfelde, important workshops and apprentices' workshops were destroyed.

Buildings: Totally destroyed:
13 industrial works
1 rail installation
98 businesses
17 public buildings
2115 houses
10 military installations

Severe damage:
34 industrial works
8 rail installations
61 businesses
29 public buildings
2452 houses
12 military installations
8 traffic installations
10 supply installations

/Medium

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Medium damage:

2 industrial works
4 businesses
2 public buildings
200 houses
1 traffic installation
3 supply installations

Slight damage:

20 industrial works
14 rail installations
88 businesses
26 public buildings
274.00 houses
15 military installations
23 traffic installations
9 supply installations

Loss of Production:

Maybach Engines	100%
Heko Works	100%
Adam Opel A.G.	100%
Steglitz Electricity Works	100%
Opta Radio	100%
Askania	90%
Siemens Apparate	80%
Kloeckner-Humboldt-Deutz	80%
Mariendorf Gas Works	70%
Schoeneberg Gas Works	50%

50 aircraft are reported as shot down.

BERLIN

As above.

31 AUGUST/1 SEPTEMBER

Some 150 aircraft carried out a high altitude attack between 2353 hours and 0200 hours, mainly against the districts of Steglitz, Tempelhof and Zehlendorf.

Bombs dropped:

11 mines
135 H.E.
10000 incendiary bombs
500 phosphorous bombs
150 flares

Casualties:

58 dead, 96 injured and 2837 homeless.

Houses:

40 destroyed
112 severely damaged
1129 slightly damaged

Industrial:

1 factory destroyed and 15 slightly damaged

Targets hit include:

Telefunken
Goerz Works
Mariendorf Station
Tempelhof Town Hall.

The Berlin - Halle railway line was closed due to unexploded bombs.

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In the surrounding country 31 mines, 152 H.E., 9956 incendiary, 1 oil and 1393 phosphorous bombs and 700 phosphorous drums caused some damage to harvest and agricultural property and casualties amounted to 19 dead and 50 injured.

BERLIN

3/4 SEPTEMBER

As above &

E. 2899 - Siemens Chief
A.R.P. Warden

Between 2324 hours and 0158 hours about 400 aircraft attacked in several waves. The districts mainly affected were Charlottenburg, Tiergarten, Linden, Spandau and Wilmersdorf.

Bombs dropped:

82 mines
900 H.E.
200,000 incendiary bombs
8,500 phosphorous bombs
100 oil bombs
400 flares.

Casualties:

568 dead, 1356 injured, 170 missing and 35030 homeless.

Houses:

450 destroyed
850 severely damaged
5600 slightly damaged

Military Installations:

10 destroyed
15 severely damaged
14 slightly damaged

There were numerous cases of public buildings, public services and supply installations and businesses destroyed or damaged to a greater or lesser degree. These include the main works of the Municipal Transport Co., an electricity works, the Opera House, the Charlottenburg Town Hall, a Treasury Office and General Guderian's house which was demolished.

Industrial:

86 industrial targets were hit, the more important of which include:

The Auergesellschaft (considerable damage)
Siemens Electro-Engine Works (destroyed)
Siemens Wernerwerk (severely damaged)
Gartenfeld Cable Works (severely damaged by fire)
Unterspree Power Station (severe damage to works and living accommodation)
Transformer Works of BEMAG (destroyed)
Ammunition dump at Reinickendorf (destroyed)
Henschel Aircraft Works
A.E.G.
The Chemical Technical Institute in Charlottenburg was damaged by fire.

/4 mines,

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4 mines, 37 heavy H.E. (1 dud), 247 phosphorous bombs (17 duds) and some 940 incendiary bombs (doubtless the actual number of incendiary bombs was much higher) were dropped on the Siemens works in Siemensstadt.

Railways:

Damage was also caused to buildings, installations and rolling stock of the railways and underground. This included:
Hamburg-Lehrter Goods Station
Lehrter Station
Grunewald Railway Repair Shops
Staaken Goods Station
Stettiner Station
Charlottenburg Goods Station
Moabit Goods Station and Signal Box.

BERLIN

18/19 NOVEMBER

E. 1679 - Chief, Orpo.
E. 1322 - Min. Of Pub.
Inf. & Prop.

About 60 - 70 aircraft took part in the raid which lasted from 2011 hours till 2223 hours. Reinickendorf, Pankow, Lichtenberg and Horst-Wessel were the districts mainly affected.

Bombs dropped:

11 mines
75 H.E. (11 duds or D.A.)
9600 incendiary bombs
9400 phosphorous bombs
36 flares of various sorts

Casualties:

154 dead, 443 injured, 7500 homeless including 2500 foreigners.

Among the target hit were:
Schlesischer Goods Station
Argus Motors
Heine Propellor Works
Bergmann Electricity Works
Knorrbremse Co.
Mariendorf Gas Works
Luftfahrt Apparate Co.

Several phosphorous and stick incendiary bombs fell on the factory area of the Askania Works in Mariendorf, severely damaging 2 workshops.

BERLIN

As above

22/23 NOVEMBER

A force of about 400 aircraft carried out this raid in cloudy and rainy weather between 1930 hours and 2112 hours. The Government quarter, Charlottenburg, Moabit and around the Zoo bore the brunt of the attack. Considerable damage and widespread fires occurred, particularly in the neighbourhood of Luetzowplatz, Hansaplatz and Rosenthalerplatz. There was a partial failure in electricity and water supplies.

Bombs

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Bombs dropped: 130 mines
900 H.E.
200,000 incendiary bombs
20,000 phosphorous bombs
60 flares of various kinds

Casualties: 1757 dead, 6923 injured and 180,000
homeless.

Houses: 2791 destroyed
2835 severely damaged
23000 slightly damaged

Military
Installations: 14 destroyed
30 severely damaged
21 slightly damaged.

Industrial: 23 destroyed
54 severely damaged
62 slightly damaged.

Rail & Waterways: 9 destroyed
22 severely damaged
16 slightly damaged.

Apart from houses the following are among
the buildings hit:

Chancellery; Ministry of Finance;
Propaganda Ministry; Transport
Ministry; Foreign Office (Minister's
flat); Railway sidings with Hitler's
special train; Gestapo office; Air
Ministry in the Schillerstrasse; 2
electricity works; Osram; Schlesischer
Station; 5 embassies and 1 consulate.

The following premises are among the
destroyed or severely damaged:

Osram, Utrechterstrasse & Nonnendammallee	severely damaged
Telefunken, Sickingenstrasse	"
Loewe Machine Tool Factory, Huttenstrasse & Wiebestrasse	"
Schoeneberg Gas Works	"
Blaupunkt	"
Transformer of the Berlin Electricity Works	"
Buessing, Wilmersdorf	destroyed
Auto-Union, Wilmersdorf	"
Railway Repair Works, W'dorf	"
Steglitz Electricity Works	severely damaged
Telefunken, Charlottenburg	"
B.M.W., Charlottenburg	"
Siemens & Halske, Charlottenburg	"
Daimler-Benz, Charlottenburg	"
A.E.G., Schlegelstrasse	destroyed
Albrecht Armaments Works	severely damaged

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2 A.E.G. premises	severely
A.E.G. Turbine Works	damaged
Moabit Power Station	"
Auer Gesellschaft	"

BERLIN
As above.

23/24 NOVEMBER

The alarm lasted from 1926 hours until 2119 hours and the raid was carried out by some 300 aircraft.

Bombs dropped: 120 mines
850 H.E.
20,000 phosphorous bombs
250,000 incendiary bombs
100 oil bombs
70 flares of various kinds

Houses: 1989 destroyed
2442 severely damaged
20,000 slightly damaged.

Military Installations 1 destroyed
15 severely damaged
6 slightly damaged

Industrial Firms: 8 destroyed
22 severely damaged
20 slightly damaged

Rail & Waterways: 1 destroyed
20 severely damaged
8 slightly damaged

Industrial concerns destroyed include:
Spandau Power Station,
Felsch Aero-engine Works,
Siemens & Halske, Charlottenburg,
B.M.W. Charlottenburg

The following concerns were damaged:
Knorrbremse A.G., Lichtenberg,
Argus Motors, Reinickendorf,
A.E.G., Brunnenstrasse,
Deutsche Industrierwerke, Spandau,
Siemens-Schuckert, Spandau,
Siemens Dynamo Works, Spandau

Casualties: 1315 dead, 6383 injured and some 300,000 homeless.

BERLIN

26/27 NOVEMBER

As above &
E.2606 -- Min. of Armaments
& War Production

It is estimated that about 250 - 300 aircraft took part in this raid which lasted from 2052 hours until 2230 hours. The districts of Reinickendorf, Siemensstadt and the Inner Town bore the brunt of the attack.

/Bombs

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Bombs dropped: 60 mines
650 H.E,
10,000 phosphorous bombs
100,000 incendiary bombs
100 oil bombs
100 flares

Houses: 981 destroyed
1070 severely damaged
12000 slightly damaged

Casualties: 470 dead, 2091 injured and about 25000
homeless.

Industrial firms: 11 destroyed
37 severely damaged
42 slightly damaged.

Commercial
businesses: 38 destroyed
52 severely damaged
73 slightly damaged.

Of the industrial firms the following
were among the destroyed:
Osram, Utrechterstrasse,
Deutsche Industrierwerke, Spandau,
Preising Metal Works, Reinickendorf

The following were severely damaged:
Alkett Works, Borsigwalde,
Argus Motors, Reinickendorf,
Mauser Works, Borsigwalde,
Elz Armourplating Works, Tegel,
Duerener Metal Works, Borsigwalde,
Deutsche Waffen & Munitionswerk,
Borsigwalde,
Oxygen Works, Borsigwalde,
Paton Remote Control Technics, N.W. 87,
Bergmann Electricity Works, Wilhelmsruh,
Siemens & Halske Wernerwerk,
Railway Repair Shops, Revalerstrasse,
Deutsche Cable Works, O.112,
Dornier Aircraft Works, Reinickendorf,
Gas Works, Tegel,
B.M.W., Spandau
The Schlesischer Goods Station was
slightly damaged.

Three military establishments were
destroyed, 10 severely damaged and 4
slightly damaged.

One Police Station was destroyed.

On the Mauser Works and the neighbouring
industrial area in Borsigwalde a carpet
of incendiary bombs was laid, destroying
37661 sq. metres of floor space.

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3 2000 lb. H.E. and 1 3600 lb. mine (dud) and a very large number of incendiary and phosphorous bombs also fell on the works of the Deutsche Waffen & Munitionswerk.

The Rheinmetall-Borsig works were hit by 21 500 lb. H.E., 8000 incendiary and 3000 oil (Note: more probably phosphorous) bombs which destroyed a floor space of 59386 sq. metres and damaged a further 144656 sq. metres.

BERLIN 2/3 DECEMBER
E. 1679 - Chief, Orpo.
E. 1322 - Min. of Pub.
Inf. & Prop.

Between 1835 hours and 2121 hours strong formations (about 500 aircraft) were reported over Western Germany and Brandenburg. A medium attack developed on Berlin between 1927 hours and 2121 hours by some 150 - 200 machines. The attack was however to a large extent scattered by strong defences, especially night fighters. Damage was caused mainly by H.E.'s and mines over the whole town area and not concentrated in any particular district.

Bombs dropped: 30 mines
200 H.E.
20,000 incendiary bombs
2,000 phosphorous bombs
50 flares of various kinds.

Casualties: 107 dead, 201 injured and about 3000 homeless. 826 were missing from this and the 3 previous raids.

The Henschel Aircraft Works at Treptow and Johannistal and the Daimler-Benz works were damaged.

BERLIN 16/17 DECEMBER
As above.

Some 200 aircraft attacked between 1924 hours and 2104 hours.

Bombs dropped: 60 mines
700 H.E.
150000 incendiary bombs
6000 phosphorous bombs

Houses: 266 + 45 living huts destroyed
181 + 51 living huts severely damaged
426 + 1 living huts medium damage
1921 + 82 living huts slightly damaged.

Fires: 110 large 320 medium and 1500 smaller fires.

Industries: 4 destroyed
12 severely damaged
4 medium damage
16 slightly damaged.

Casualties: 545 dead, 796 injured and 160 missing.

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Among the premises destroyed were the following:

Two buildings containing stores of the Deutschen Industrierwerken; Transformer works & 9 huts of Appel Machine Co. in Spandau; Army Central Spare parts stores in the Bergstrasse. Also numerous railway buildings, rolling stock and installations, including a train occupied by workers from Eastern occupied countries at Halensee Station which received a direct hit - some 50 killed.

Severely damaged were:
Rhenania-Ossag and Nitag oil tank installations; Telefunken; Loewe A.G.; Kali-Chemie; Siemens & Halske; Gas Works, Gauerstrasse; Struwe & Solkmann Chemical Factory; Steyr-Daimler-Puch and various railway buildings and installations.

BERLIN
As above.

23/24 DECEMBER

100 - 150 raided the east and south-east sectors of the City between 0329 hours and 0509 hours.

Bombs dropped:

65 mines
400 H.E.
2000 phosphorous bombs
60000 incendiary bombs
numerous flares of various kinds.

Houses:

147 destroyed
158 severely damaged
219 medium damage
1200 slightly damaged

Casualties:

178 dead, 419 injured, 20 missing and 600 homeless.

Industrial concerns and installations hit include:

Neukoelln Gas Works (severely damaged); Henschell Works, Nieder & Oberschoeneweide (slightly damaged); D.V.L., Johannistal (severely damaged); Schering A.G., Adlershof; A.E.G. Transformer & Cable Works, Oberschoeneweide (slightly damaged); Chemical factory, Neukoelln; GEMA Works, Koepenick (slightly damaged). The Goods Station at Frankfurter Allee was severely damaged as was also the tarmac and a hangar at the Tempelhof Airfield.

At Niederbarnim in Mark Brandenburg where 4 mines, 32 H.E. and 4620 incendiary bombs were dropped the Erkner Vereinigten Kugellager (Ballbearing) Works were severely damaged.

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BERLIN
As above.

29/30 DECEMBER

The alarm sounded at 1923 hours and the all clear at 2056 hours, during which time about 200 aircraft attacked, mainly the southern and south-eastern parts of the City.

Bombs dropped: 50 mines
300 H.E.
2000 phosphorous bombs
100000 incendiary bombs
numerous flares of various kinds.

Casualties: 139 dead, 542 injured and 4500 homeless.

The following were among the targets hit:
Wireless Station, Werderstrasse;
New buildings at the Tempelhof Airfield;
Osram in the Ehrenbergstrasse;
Daimler-Benz Works 40 & 90;
Riedel-de Haen in Britz;
Hentschel A.G., Johannistal;
Elektron Werke, Bessemerstrasse;
Siemens Apparatebau A.G.

Some rail installations and police buildings were damaged and at Schoeneberg the electricity works were destroyed by a mine, cutting all supplies for that sector.

BOCHUM

29/30 MARCH

8a 2211 - LGK XII
E. 2601 - LGK VI
E. 624 - Min. of Pub.
Inf. & Prop.

Between 50 and 70 aircraft carried out "disturbance" raids in the industrial areas. Sporadic bombing in BOCHUM, ESSEN, DORTMUND and DUISBURG. Also MUELHEIM/RUHR. Comparatively little damage was caused. The following figures refer to the whole area.

Bombs dropped: 3 mines
70 H.E.
10550 incendiary bombs
169 phosphorous bombs
24 phosphorous drums

Houses: 20 destroyed
49 severely damaged
72 medium damage
1335 slightly damaged.

Fires: 2 large, 20 medium and 123 smaller fires.

Casualties: 34 dead, 118 injured and 91 homeless.

Slight damage by fire was caused to the rubber insulation plant of Thiessen in Duisburg.

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Please amend and insert new details of the raid on Berlin on 29/30 December, as follows:-

Bombs dropped: 90 mines
400 H.E.
100,000 incendiary bombs
3,000 phosphorous bombs

Houses: 388 + 679 living huts destroyed
1371 + 300 living huts severely damaged
603 + 129 living huts medium damage
4163 + 791 living huts slightly damaged.

Casualties: 151 dead, 514 injured, 40 missing and 10,600 homeless.

Industries: 8 destroyed
30 severely damaged
27 slightly damaged

Military Installations: 7 destroyed
8 severely damaged
5 medium damage
11 slightly damaged

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The Danco-Wetzell Asbestos Works in Dortmund suffered medium damage to buildings and machines, causing some loss in production for a few days. The main line from Soest to Duesseldorf was closed for about 7 hours and traffic diverted.

BOCHUM 13/14 MAY

E. 2461 -- LGK.VI
E. 1679 -- Chief, Orpo.
E. 2606 -- Min. of Armaments
& War Production
Bombs dropped:

About 300 aircraft took part in this raid.

72 mines
647 H.E. (54 duds)
43150 incendiary bombs
5160 phosphorous bombs

Houses:

394 destroyed
716 severely damaged
812 medium damaged
5844 slightly damaged.

Fires:

141 large, 590 medium, 1359 smaller fires.

Casualties:

410 dead (including 85 Russian PW & foreign workers)
404 injured (including 133 Russian PW & foreign workers)
22000 homeless.

H.E. and incendiary bombs fell on the Main Station and signal boxes, causing considerable damage. Stations at Bochum-Weitmar and Bochum North were also damaged.

Industrial:

Four factories were completely destroyed and there was a fall in production at other works due to the failure of gas, water and electricity supplies.
Bochumer Verein: Damage to gas, electric and water supplies putting furnaces out of action. Fire station and testing plant destroyed by two direct hits. Direct hits also on iron casting plant and railway bridge.
Emil v. Lienen Vehicle Works: Chassis sheds burnt down. Decrease in production 50% for indefinite period.
Eickhoff Machine Factory: Several H.E. in the mechanical workshop. Decrease in production 75% for 8 days.
Schloer G.m.b.H.: Destroyed by incendiaries. 100% decrease in production.

Tram depot was partially burnt out. The Public Utility Works, Schlageterring, was destroyed by H.E.

/BOCHUM

RESTRICTED

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BOCHUM 12/13 JUNE
E. 1679 - Chief, Orpo.
E. 2461 - LGK VI
8a 2211 - LGK XII
8a 1151 - Min. of Pub.
Inf. & Prop.

From 0043 hours to 0139 hours several hundred aircraft attacked. The main part of the town affected was the Town Centre, between the Central Station in the south, the Civic Park in the north, the Bochumer Verein in the west and the Eisenhuettenwerk in the east. Telecommunications with Bochum were cut off from 0132 hours.

Bombs dropped:

72 mines
760 H.E. (94 duds)
80000 incendiary bombs
20000 phosphorous bombs

Fires:

233 large, 359 medium and 1462 smaller fires.

Houses:

479 destroyed
916 severely damaged
925 medium damage
6543 slightly damaged.

Casualties:

295 dead, 519 injured and 30000 homeless.

Destroyed or damaged buildings include: Town Hall; Main Post Office; Bochum North Station which was burnt out; a police barracks; a Flak barracks; the Eisen- und Heuttenwerk and van Lienen Vehicle Co. which was completely destroyed. Telecommunications were in the main destroyed. The tramway system was partially at a standstill. The local office of the Ministry of Propaganda received a direct hit. All textile and ready-to-wear clothing shops were destroyed. Gas, electric and sewer mains were fractured at various points. The Steel and Electro-Steel Works of the Bochumer Verein were put out of action for several weeks. At the Viktor Hydrogenation Works the gasol gasometer, the prisoners camp and cable drum stores were burnt out, causing 40% loss of production for 2 days. In all 24 Industrial targets were hit. 5 large shops (stores) were destroyed by fire and the Central Station was hit by 30 H.E. and several hundred incendiary bombs causing considerable destruction.

In addition to the bomb load dropped on Bochum, German sources report a further some 220 H.E.'s, and mines and some 10000 incendiary or phosphorous bombs dropped on neighbouring towns and country districts. No major industrial damage was caused.

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BOCHUM
As above.

25/26 JUNE

About 150 aircraft are reported as having participated in this raid.

Bombs dropped: 63 mines
397 H.E. (87 duds)
60000 incendiary bombs
10000 phosphorous bombs

Fires: 89 large, 437 medium & 509 smaller fires.

Houses: 311 destroyed
445 severely damaged
522 medium damage
2397 slightly damaged.

Casualties: 157 dead, 278 injured and 15 - 20000 homeless.

Industrial: Between 70% and 100% loss of production was caused to 22 industrial concerns, of which the Gerthe Chemical Works and the shell factory of the Bochumer Verein were severely damaged by fire and the Krupp Propellant factory at Wanne-Eickel by H.E. At the latter the boiler installations and works railway were either destroyed or severely damaged. The Wiemann Machine Works, Industriegas "Wagirol" and four pits sustained damage causing 100% loss of production for an indefinite period. At the Tar Distilling Co., Castrop-Rauxel, the oil distillation plant was destroyed. The tar distillation plant would probably be working again in 4 weeks. Former monthly capacity was 42000 tons of oil and tar.

The blast furnace at the Steel Castings Co. of the Bochumer Verein exploded and large portions of the works were at a standstill through failure of gas supplies.

The Ackermann and Stockfeld Iron Works suffered damage resulting in 100% loss of production.

BOCHUM

9/10 JULY

E. 1679 - Chief, Orpo.
8a 1151 - Min. of Pub.
Inf. & Prop.

Between 0040 and 0300 hours a large number of aircraft penetrated Western Germany via Holland.

Bombs dropped: 65 mines
474 H.E. (67 duds or D.A.)
40000 incendiary bombs
10000 phosphorous bombs.

/Houses

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G. 11042/NLR/9/56/

R E S T R I C T E D

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Houses: 243 destroyed
595 severely damaged
955 medium damage
5455 slightly damaged

Fires: 84 large, 264 medium & 711 smaller fires.

Casualties: 123 dead, 394 injured & 15000 homeless.

The following are among the targets either destroyed or severely damaged, causing 100% loss in production for indefinite period:

Machine house of the "Flora" pit,
Krupp Propellant Works in Wanne-Eickel,
Benzole & Coke plant at the "Praesident" pit,
"Froehliche Morgensonne" pit,
Wagiro. Large fires were started in various installations of the "Constantine" pit and a direct hit was scored on the rolling mill of the Bochumer Verein. An ammunition train was hit and 7 trucks burnt out. The last coach of the Berlin Express was hit and the main line Bochum-Essen closed. Lock bridges on the Rhein-Herne Canal were destroyed.

In addition 26 mines, 277 H.E., 42580 incendiary bombs and 7821 phosphorous bombs were dropped on a large number of places, including Recklinghausen, Oberhausen, Muelheim, Wuppertal, Dortmund and Essen.

BOCHUM
As above.

12 AUGUST
(USAAF)

At about 0840 hours penetrations by a number of aircraft estimated at 250 to 300 took place via Holland into the industrial areas of the Rhein and Westfalia.

Bombs dropped: 2 mines
265 H.E. (21 duds or D.A.)
14 oil bombs.

Houses: 19 destroyed
37 severely damaged
47 medium damage
597 slightly damaged.

Casualties: 24 dead, 48 injured.

The administrative buildings of the Post Office were severely damaged and there was a direct hit on a platform of the Main Station. Damage was also caused to gas and water mains, and several H.T. cables were hit.

/The

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The Bochumer Verein sustained 40 hits in the works, including a direct hit on the oil cooling plant in the spring factory, destroying the installation. 100% loss in production was caused in the Hermann Mueller Pipe Works, the firm Otten & Co. and the Kloeckner Works for 14 days.

BOCHUM

29/30 SEPTEMBER

E. 1679 - Chief, Orpo.
E. 624 - Min. of Pub.
Inf. & Prop.

This was a medium raid, carried out by about 200 aircraft from 2120 hours to 2340 hours and affecting mainly the town areas of Bochum, Wanne-Eickel, Wattenscheid and Castrop-Rauxel. It was not to be compared with the heavy raids of May and June.

Bombs dropped:

25 mines
400 H.E.
100000 incendiary bombs
40000 phosphorous bombs

Houses:

1200 destroyed or severely damaged
920 medium damage
over 3000 slightly damaged.

Fires:

102 major, 314 medium & 576 smaller fires.

Casualties:

154 dead, 189 injured, 10 missing, 31 buried, 40 - 60000 homeless.

The Bochumer Verein was severely damaged in places. The armour-plating and stores departments of the Eisenhuettenwerk were also severely damaged. Krupp's synthetic fuel plant and several other industrial concerns were also damaged. The Central Post Office and the Central Station were hit by H.E. and incendiary bombs.

BONN

12 AUGUST

E. 1679 - Chief, Orpo. (USAAF)
8a 1151 - Min. of Pub.
Inf. & Prop.

At about 0840 hours penetrations of between 250 and 300 aircraft (estimated number) from Holland were made into the Rhein-Westfalia industrial area. Among other places Bonn was heavily attacked by about 40 aircraft.

Bombs dropped:

632 H.E.
10000 incendiary bombs
100 phosphorous bombs
350 oil bombs

Fires:

3 major, 45 medium & 10 smaller fires.

Casualties:

197 dead, 456 injured, 12 missing and 2000 homeless.

/Houses

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Houses: 122 destroyed
135 severely damaged
254 medium damage
1004 slightly damaged.

BREMEN 21/22 FEBRUARY
8a 2211 - LGK XII/XIII

50 - 60 aircraft penetrations, apparently with the intention of attacking Bremen. The aircraft however changed course before-hand. Isolated bombs dropped in country districts.

18 MARCH
E. 2910 - Pol. Pres. (USAAF)
E. 2606 - Min. of Armaments
& War Production

The attack, made by some 30 aircraft, was aimed mainly at the Bremer Vulkan Works at Vegesack. It started at 1520 hours from a northerly direction and lasted only 10 minutes during which time 133 H.E. (including 19 duds) were dropped.

Houses: 20 destroyed
41 severely damaged
229 slightly damaged
288 glass only.

Casualties: 132 dead, 77 injured and 251 homeless.

Of the bombs dropped 76 1000 lb. fell on the Vulkan Works. The transformer station was destroyed and many workshops and stores were damaged to a greater or lesser extent. The area covered by the buildings destroyed in this raid was 53400 sq. metres. The total area covered by buildings equalled 113100 sq. metres.

BREMEN 17 APRIL
E. 2910 - Pol. Pres. (USAAF)

The attacking force of 178 - 200 machines flew in from a south-westerly direction and the raid lasted from 1258 hours to 1310 hours. During that time 352 H.E. (8 duds) were dropped, the targets being the Focke-Wulf Aircraft Works at the airfield, the barracks at Huckelriede and the adjacent residential areas.

Houses: 66 destroyed
132 severely damaged
946 slightly damaged
193 glass only.

Casualties: 69 dead, 126 injured & 937 homeless.

Military: 4 barracks were badly damaged and 2 military buildings in the Neuenlanderstrasse were destroyed.

Industrial: About 108 H.E.'s. fell on the Focke-Wulf plant destroying 4 buildings and severely damaging 2 more. About 8 - 10 FW.190 were destroyed in the hangars.

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R E S T R I C T E D

R E S T R I C T E D

- 19 -

A transformer of the Electricity Works was destroyed. 3 principal water mains were hit. There was no damage caused to harbour installations.

BREMEN 13 JUNE
E. 2617 -) Police (USAAF)
E. 2910 -) President
8a 1151 - Min. of Pub.
Inf. & Prop.

About 100 4-engined bombers attacked the whole Twon area from 0952 hours to 1002 hours.

Bombs dropped: 807 H.E. (50 duds)
170 incendiary bombs.

Casualties: 239 dead, 332 injured & 2510 homeless.

Houses & Buildings: 213 houses destroyed, 6192 damaged,
10 public buildings damaged,
10 industrial buildings destroyed and
15 damaged.

Fires: 5 major, 7 medium and 2 smaller fires. Severe damage by 20 H.E.'s. and fire was caused to the Altaswerke, resulting in 80% loss in production for some days. Valuable plans (drawings) were destroyed. A major fire resulted at the Ostfriesland Margarine Works. Hits were scored in the Europe and Overseas harbours, where a number of vessels were sunk and damaged and quays and quayside installations were hit. Direct hits were also scored on the Police H.Q. and the Bremen-Neustadt railway station. The lines from Bremen to Vegesack, Delmenhorst to Wildeshausen, Delmenhorst to Lemwerder were cut. Gas and electricity supplies failed partially. In Delmenhorst the main water supply was broken. 69 streets were closed.

BREMEN 8 OCTOBER
E. 2910 - Pol.Pres. (USAAF)
E. 2600 - Unknown.

The raid by some 400 bombers took place between 1506 hours and 1640 hours.

Bombs dropped: 1033 H.E. (56 duds or D.A.)
200 incendiary bombs
2101 oil bombs (108 duds)

Casualties: 127 dead, 181 injured, 4 missing and
about 1800 homeless.

Houses: 294 destroyed
170 severely damaged
293 medium damage
1525 slightly damaged
315 glass only.

/Public

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Public Buildings: 5 destroyed (including 1 post office)
2 severely damaged (Town Hall, Bremen-
Blumenthal and Reserve
Hospital, Bremen-
Aumund)
9 medium (including 1 telegraph office
and treasury office)
10 slightly damaged.

In the barbour area there were 8 cases
of total damage, 9 of severe damage and
13 of slight. 7 vessels were sunk and
a further 8 damaged. The welding and
heavy sheet metal shop of Weser A.G. was
damaged and also a machine building work-
shop. The Weser Aircraft Co. also
suffered.

BREMEN

8/9 OCTOBER

E. 2910 - Pol. Pres.
E. 2459 - Min. of Pub.
Inf. & Prop.

This raid, referred to as a "terror
raid without plan", lasted from 0105
hours to 0200 hours. About 60 - 80
aircraft took part.

Bombs dropped:

3 mines
279 H.E. (24 duds)
4300 incendiary bombs
497 phosphorous bombs (67 duds)
269 oil bombs (58 duds).

Casualties:

31 dead, 61 injured & 1279 homeless.

Houses:

140 destroyed
180 severely damaged
449 medium damage
1187 slightly damaged.

Fires:

40 major, 104 medium and 75 smaller
fires.

A shed storing ammunition at a barracks
was destroyed. Also a Flak ammunition
dump.

BREMEN

26 NOVEMBER

E. 1679 - Chief, Orpo. (USAAF)
E. 2910 - Pol. Pres.
E. 2617 - " "
E. 2600 - Unknown
E. 1322 - Min. of Pub. bombs
Inf. & Prop. dropped:

Some 400 bombers escorted by about 180
fighters attacked in several waves from
1130 hours to 1330 hours.

1981 H.E. (216 duds or D.A.)
310 incendiary bombs
102 phosphorous bombs (5 duds)
1437 oil bombs (182 duds)

Fires:

82 large, 162 medium & 104 smaller fires.

/Houses

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R E S T R I C T E D

- 21 -

Houses: 507 destroyed
569 severely damaged
867 medium damage
3920 slightly damaged
1440 glass damage only.

Casualties: 370 dead, 286 injured and 3925 homeless.

In the main only medium to slight damage was caused to industrial concerns and public buildings.

The Borgward Works were damaged and some damage was caused to H. Kellner & Co., Cement Industry, where 6 H.E. dropped in the works area destroying the office building and a store. A production loss of 90 days ensued. Damage at the Atlas Works was caused mainly by fire.

Focke-Wulf works at Hastedt also suffered some damage by H.E. In the harbour area some sheds were burnt out and damage was also caused to the Customs Office and a Fire Station. Some water craft were also sunk. Some damage was also done to the Water Works and a gasometer was set on fire. The Central Station was hit by H.E. and incendiary bombs, one platform being destroyed.

BREMEN

29 NOVEMBER

E. 2910 -- Pol. Pres. (USAAF)
E. 1322 -- Min. of Pub.
Inf. & Prop.

This "terror" raid was carried out between 1440 hours and 1455 hours by about 400 aircraft including fighter escort.

Bombs dropped: 187 H.E. (38 duds or D.A.)
218 oil bombs (19 duds)

Casualties: 6 dead, 14 injured and 582 homeless.

Fires: 7 major, 8 medium and 9 smaller fires.

Houses: 46 destroyed
67 severely damaged
70 medium damage
212 slightly damaged
626 glass damage only.

As a result of very effective Flak the attack did not fully mature.

Some damage of varying intensity occurred to 2 military barracks and 3 police buildings.

Only slight damage to some industrial works is reported.

In the country districts around Oldenburg, Vechta, Cloppenburg, Leer, Aschendorf, Meppen and Bersenbrueck

/altogether

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altogether 154 H.E. and some 70 incendiary bombs and phosphorous drums were dropped, causing next to no damage. The Administrative building of Focke-Wulf was damaged.

BREMEN

13 DECEMBER

E. 1679 - Chief, Orpo. (USAAF)
E. 2910 - Pol. Pres.
E. 2600 - Unknown
E. 1322 - Min. of Pub.
 Inf. & Prop.

The raid lasted from 1203 hours until 1218 hours and was carried out by about 150 aircraft. Targets hit were mainly in the West part of the town from Vegesack to the Town Centre.

Bombs dropped:

689 H.E. (25 duds or D.A.)
2567 oil bombs (97 duds)

Fires:

107 large, 122 medium and 209 smaller fires.

Houses:

237 destroyed
257 severely damaged
346 medium damage
1843 slightly damaged
1386 glass damage only.

Casualties:

19 dead, 78 injured & 2054 homeless.

A stores belonging to the North German Lloyd was destroyed and considerable damage was caused to the building housing the compressed air plant of the Atlas Works. A dock of the A.G. Weser was sunk as well as 10 vessels, including 3 steamers (1 French). Severe damage was caused to water and gas mains, one of which latter was at the entrance to the harbour. A workshop at the Shunting Station was also destroyed.

BREMEN

16 DECEMBER

E. 1679 - Chief, Orpo. (USAAF)
E. 2910 - Pol. Pres.
E. 2600 - Unknown

This "terror" raid was made by 100 - 150 aircraft between the hours of 1310 and 1340. The East, North and Harbour Sectors of the town were mainly affected.

Bombs dropped:

2396 H.E. (57 duds or D.A.)
2414 oil bombs (82 duds)

Houses:

674 destroyed
555 severely damaged
1170 medium damage
3270 slightly damaged
about 2000 glass damage only.

Fires:

91 major, 211 medium and 236 smaller fires.

Casualties:

112 dead, 194 injured & 6498 homeless.

/A

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R E S T R I C T E D

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A considerable amount of damage was caused to sheds, buildings and industrial concerns in the harbour areas. Various buildings of the Deutsche Cement Industrie were destroyed. A 500 ton petroleum tank of the Vacuum Oil Co. was hit and burnt out. Atlas Works suffered severe damage, Weser A.G. slight. Railway installations suffered to a greater or lesser degree. Five vessels were sunk including 3 steamers.

BREMEN 20 DECEMBER
E. 1679 - Chief, Orpo. (USAAF)
E. 2910 - Pol. Pres.

This raid is referred to as the "heaviest to-date". It was carried out by 500 aircraft excluding fighter escort and lasted from 1146 hours to 1210 hours.

Bombs dropped: 1355 H.E. (72 duds or D.A.)
5916 oil bombs (193 duds)

Houses: 1583 destroyed
612 severely damaged
701 medium damage
2232 slightly damaged
4425 glass damage only.

Fires: 335 large, 847 medium and 736 smaller fires.

Casualties: 54 dead, 260 injured & 9600 homeless.

The Central Station was in part destroyed. Traffic to Hamburg, Wesermuende and Oldenburg was interrupted for about 24 hours. The main works of the municipal tramways, assembly shops at the Borgward Works, Focke-Wulf at Hemelingen and the Atlas Works also suffered damage.

COLOGNE 2/3 FEBRUARY
A. 399 - Pol. Pres.

Between 2050 hours and 2130 hours 10 - 15 aircraft raided the town area, mainly the north and north-west left bank of the Rhein.

Bombs dropped: 15 mines
42 H.E.
7615 incendiary bombs
5 phosphorous drums
41 phosphorous bombs

Casualties: 14 dead, 63 injured & 675 homeless.

Houses: 65 destroyed
291 severely damaged
1306 slightly damaged.

/Fires:

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- 24 -

Fires: 2 major, 34 medium & 52 smaller fires.

Apart from the residential area little damage was caused. One hospital, one official building, 2 churches, 3 schools, and 3 military installations were damaged. In addition 1 water main and 1 power cable and 32 industrial concerns were damaged.

COLOGNE

14/15 FEBRUARY

8a 2211 - LGK XII
A. 399 - Pol. Pres.

25 penetrations took place between 1959 hours and 2025 hours over Belgium and Holland. Focal point was Cologne with further attacks on Aachen and districts surrounding Cologne and Aachen. About 30 aircraft took part in the raid on Cologne.

Bombs dropped: 7 mines (1 dud)
84 H.E. (1 dud)
14859 incendiary bombs
276 phosphorous bombs
142 phosphorous drums.

Fires: 3 major, 294 medium & 288 smaller fires.

Houses: 49 destroyed
139 severely damaged
1771 slightly damaged.

Casualties: 76 dead, 135 injured & 1506 homeless.

70 industrial concerns were damaged and there were 2 instances of damage to gas mains 1 to water mains and 5 to traffic installations.

COLOGNE

26/27 FEBRUARY

A. 399 - Pol. Pres.

About 30 aircraft carried out a "terror" attack, mainly on the residential areas in the west and south-west districts of the town. In 45 minutes they dropped:

25 mines (1 dud)
111 H.E. (16 duds)
16122 incendiary bombs
812 phosphorous bombs
66 phosphorous drums

Fires: 67 large, 319 smaller fires.

Casualties: 97 dead, 148 injured & 6322 homeless.

Houses: 289 destroyed
232 severely damaged
282 medium damage
1879 slightly damaged.

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R E S T R I C T E D

R E S T R I C T E D

- 25 -

1 public building was destroyed, 10 municipal damaged (3 severely).
4 industrial installations were destroyed and 53 damaged.
1 public transport installation severely damaged as well as 3 railway installations, 1 military installation, 2 main roads and 4 water mains severely damaged.

COLOGNE

16/17 JUNE

E. 1679 - Chief, Orpo.
A. 399 - Pol. Pres.
8a 1151 - Min. of Pub.
 Inf. & Prop.

This "terror" attack on residential areas was carried out by 120 - 150 aircraft. The alarm was sounded at 0046 hours and the all clear at 0217 hours.

Bombs dropped:

62 mines (2 duds)
521 H.E. (87 duds or D.A.)
34996 incendiary bombs
1106 phosphorous bombs
37 oil bombs
6000 leaflets.

The majority of this bomb load fell on the town centre and south-west districts causing:

Casualties:

181 dead, 213 injured & 3097 homeless.

Houses:

401 destroyed
1285 severely damaged
11469 slightly damaged

Fires:

17 large, 134 medium & 276 smaller fires. Further damage was caused to 16 industrial concerns, including Kloeckner and the Chemical Works in Kalk, where the calcium carbonate and formic acid plant was destroyed and the sulphuric acid department suffered a loss of production of 100% for 2 weeks.

Also hit were:

11 railway installations including the Central and 7 other stations.
3 main streets were seriously affected.
1 telephone exchange
3 gas mains
4 water mains
2 electricity mains
3 military installations
1 bridge (Hindenburg) by incendiaries.

1 aircraft was shot down, the crew of 7 being killed.

COLOGNE

28/29 JUNE

E. 1679 - Chief, Orpo.
E. 2461 - LGK VI
8a 2211 - LGK XII
A 399 - Pol. Pres.
8a 1151 - Min. of Pub.
 Inf. & Prop.
E. 2459 - Pol. Pol. Pres.

The main weight of this attack which was carried out by 350 - 400 aircraft in several waves was borne by the Town Centre and the Old Town. The raid lasted in all from 0130 hours until 0235 hours.

/Bombs

R E S T R I C T E D

R E S T R I C T E D

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Bombs dropped: 67 (2 duds)
1084 H.E. (145 duds)
158000 incendiary bombs
4038 phosphorous bombs

Buildings: 6386 destroyed
3515 severely damaged
11298 slightly damaged.

Dwellings: 34869 destroyed
17960 severely damaged
48707 slightly damaged

Official Buildings: 18 destroyed
5 severely damaged
2 slightly damaged

Post & Telegraph: 7 destroyed
1 severely damaged

Military installations: 5 destroyed

Casualties: 3460 dead, 5000 injured & 230000 homeless.

Among the targets hit were the following:
The Electricity Works; the Market Hall;
Police Barracks, Zugweg; Opera House;
Railway Regional Offices; Central
Station; Police H.Q.; Kloeckner-
Humboldt-Deutz Works in Kalk and Deutz;
Rhenania Machine Factory; Bamag Machine
Factory; Felton & Guillaume;
Westwaggon A.G., Deutz.

43 Industrial concerns were destroyed and
42 damaged to a greater or lesser degree.

Telephone communications were interrupted
to a great extent and many post office
buildings were destroyed, partially
destroyed or damaged by fire.

Much damage was done to railway
installations, the Hohenzollern Bridge
being closed due to duds. As well as
the Central Station which suffered
considerable damage many suburban stations
were also hit and a large number of
passenger and goods waggons were burnt
out. Rail and tram traffic was stopped.

The administrative building of the Power
and Pump Station, Am Zugweg, and repair
workshops and store belonging to it were
totally destroyed.

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R E S T R I C T E D

R E S T R I C T E D

- 27 -

In the Rheinau Harbour 8 goods sheds and stores were destroyed and 6 more damaged and 3 Customs houses destroyed. 2 crane installations were destroyed and 3 damaged. 5 ships were sunk and 2 damaged. About 80% of the harbour traffic was brought to a standstill. A large number of businesses adjacent to the harbour were destroyed or damaged.

About 90% of all wholesale and retail firms in the Town Centre were destroyed.

Water and power supplies in central and many suburban districts was largely cut off.

COLOGNE

3/4 JULY

E. 1679 - Chief, Orpo.

A. 399 - Pol. Pres.

About 600 aircraft in several waves attacked between 0110 hours and 0215 hours. The areas chiefly affected were Poll, Deutz, Kalk and Muelheim on the right bank of the Rhein and Bayenthal, Marienburg and Zollstock on the left bank.

Bombs dropped:

49 mines
814 H.E. (86 duds)
125000 incendiary bombs
8164 phosphorous bombs

Houses:

2894 destroyed
1780 severely damaged
513 medium damage
5216 slightly damaged

Casualties:

588 dead, 2010 injured & 72000 homeless.

49 Industrial firms were hit, of which 20 including Kloeckner-Humboldt-Deutz at Poll and Kalk were destroyed. Inter alia the Chemical Factory in Kalk and the Gottfried Hagen Accumulator Factory and the firm of Leybold in Bayenthal were severely damaged.

A telephone exchange was destroyed and the teleprinter service interrupted.

In the severely damaged Mudra Barracks the Vehicle Repair Shop and 2 large huts were completely destroyed. Nine further vehicle sheds were partially and 3 totally burnt out. Six vehicle sheds at the Pionier Barracks were also badly damaged and 5 sheds housing various appliances destroyed.

The Autobahn was damaged at three places.

On the Rhein the "Lohengrin" and 3 tugs were damaged.

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R E S T R I C T E D

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The railway stations at Muelheim, Deutz, Kalk, Kalk-North and Gramberg were hit. Muelheim and Kalk suffered severe damage by fire to the buildings and the permanent way was also badly damaged. Traffic to Duesseldorf, Wuppertal and Niederlahnstein was suspended. The whole tramway network on the right bank of the river was unusable due to numerous instances of damage to overhead cables and tracks and lack of current.

The following firms suffered damage causing 100% loss of production:

Chemical Factory, Kalk,
Kloeckner-Humboldt-Deutz
(tractor & pump works),
Gottfried Hagen Accumulator Works,
Stuehlen Iron Foundry,
Bergmann & Simon White Lead Factory,
Koll & Spitz White Lead Factory,
Acla Tannery,
Flutowerk I
Metallwerk, Kalk,
Lupré Chemical Works.

COLOGNE

8/9 JULY

E. 1679 - Chief, Orpo.

8a 1151 - Min. of Pub.

Inf. & Prop.

E. 2459 - Pol. Pres.

About 200 aircraft attacked from 0110 hours to 0142 hours. Residential areas to the north and north-west of the town were mainly affected.

Bombs dropped:

77 mines (1 dud)
868 H.E. (115 duds)
115000 incendiary bombs
4638 phosphorous bombs

Casualties:

965 dead, 1500 injured & 48000 homeless.

Houses:

2381 destroyed
1756 severely damaged
9003 slightly damaged

Industrial:

55 destroyed
37 severely damaged
53 slightly damaged

The following were either destroyed or damaged to a greater or lesser degree:

9 Public buildings
4 army installations
11 Railway installations,
several post offices,
1 gas works,
2 power cables,
2 ships burnt out.

2 gasometers at the Wittersdorferstrasse gas works were burnt out. A transformer works in the Town Centre was destroyed, the 25000 volt cable being damaged.

/Numerous

R E S T R I C T E D

R E S T R I C T E D

- 29 -

Numerous H.E. and incendiary bombs hit the Central Station. Severe damage was caused by hits scored on the Hohenzollern (rail) bridge. Some 20 engines and 350 passenger and goods waggons were destroyed or severely damaged. 2 Railway Post Offices were badly hit. Apart from damage to the buildings 62 large waggons and 318 platform waggons, most of them loaded with parcels and letters, were burnt.

Post Offices Nos. 1 and 2 were again hit by H.E. as well as the telegraph office, rendering them unusable.

In the harbour 9 ships were sunk and 19 suffered serious damage. The large warehouse of Rhenus A.G. in Muelheim was destroyed.

The Rhein Wire and Cable Works, the Land and Sea Cable Works, Imbert Generator Works, the firm of Steiner and Keller (uniform manufacturers), Blaupunkt A.G., a hall of Kloeckner-Humboldt-Deutz Engine Works, the firm of Felten and Guillaume in Muelheim were all destroyed or severely damaged.

COLOGNE

22/23 AUGUST

A. 399 - Pol. Pres.
E. 1679 - Chief, Orpo.

About 30 aircraft out of a force of about 250 - 300 which penetrated to south-west and west Germany attacked Cologne between 0100 hours and 0155 hours.

Bombs dropped:

8 mines
18 H.E. (3 duds)
850 incendiary bombs
175 phosphorous bombs

Casualties:

3 dead, 6 injured & 460 homeless.

Fires:

6 medium and 41 smaller fires.

Houses:

9 destroyed
7 severely damaged
18 medium damage
31 slightly damaged.

Fire occurred in the Glanzstoffabrik (Courtaulds) in Merheim and in a FW Camp. The Rhenus Mineral Water Factory was destroyed and the railway line from Cologne to Muelheim was cut. One military installation was hit.

/OUXHAVEN

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R E S T R I C T E D

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CUXHAVEN

11 JUNE

E. 1679 - Chief, Orpo. (USAAF)

From 1725 hours on about 150 aircraft penetrated Western German. Some of these attacked Cuxhaven.

Bombs dropped: 112 H.E. (7 duds and 1 D.A.)

Houses: 59 destroyed
3 severely damaged
34 medium damage
635 slightly damaged.

Casualties: 39 dead, 117 injured & 700 homeless

Railway Station and Post Office were severely damaged. There were 30 cases of damage to cables. The telephones were partially, light and water supplies at first completely cut off. There were 20 gas mains hit, 14 water main bursts and 14 cases of damage to sewers.

DARMSTADT

23/24 SEPTEMBER

E. 1679 - Chief, Orpo.

Penetrations took place between 2153 hours and 0013 hours by strong forces, about 30 to 40 of which raided Darmstadt.

Bombs dropped: 22 mines
130 H.E.
2000 incendiary (including 770 phosphorous bombs.

Fires: 30 large, 250 medium and small fires.

Casualties: 117 dead, 202 injured, 50 buried and 5000 homeless.

The Municipal Gas Works was hit and 1 gasometer burnt out. Damage by fire was also caused to railway installations.

DORTMUND

4/5 MAY

E. 2461 - LGK VI

E. 1679 - Chief, Orpo.

8a 2211 - LGK XII

100 - 120 penetrations took place and were over the target area between 0100 hours and 0200 hours.

Bombs dropped: 123 mines (17 duds)
1015 H.E. (110 duds)
83356 incendiary bombs
6685 phosphorous bombs

Houses: 1218 destroyed
2141 severely damaged
1354 medium damage
7488 slightly damaged.

Fires: 379 large, 1127 medium & 2687 smaller fires.

Casualties: 683 dead, 1073 injured & 42000 homeless.

/Industrial

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Industrial:

At Brown-Boveri & Co. about 50% of the works were destroyed.

Works III of the Electro-engine works "Glueckauf" was destroyed resulting in 100% loss in production until further notice.

Hoesch Foundry and Blast Furnace Works suffered severe damage by H.E. in the Power Station, Rolling Mill VIII and sheet rolling mill 3. The Cold Press Works suffered a 100% loss in production until further notice.

Wilhelm Daume Iron Castings also suffered severe damage resulting in 80% loss in production until further notice.

Area gas mains in S. Westfallia were without gas. 2 gas supply plants were destroyed. 52 gas mains, 5 electricity cables and 65 water mains were damaged. The Hardenberg transformer house was destroyed. Tram and telephone services were interrupted.

The Central Station itself as well as the permanent way and the Dortmund East Goods Station were damaged. Large area fires near the Central Station interrupted all lines passing through.

Two ships in the barbour were burnt out and six main roads were closed for some time.

DORTMUND

23/24 MAY

E. 2461 - IGK VI

E. 1679 - Chief, Orpo.

From 0045 hours a very heavy raid took place, heavier than that of 4/5 May. Area fire raged in the Town Centre. The focal point was the Hoeschwerke and the Hoerder-Dortmund Foundry. About 250 - 300 aircraft participated in the raid which hit mainly the Town Centre and the north, east and Hoerde districts of the town.

Bombs dropped:

225 mines (8 duds)
1750 H.E. (90 duds)
135000 incendiary bombs
27500 phosphorous bombs
2000 oil bombs.

Houses:

1848 destroyed
1582 severely damaged
1286 medium damage
8389 slightly damaged.

Fires:

806 large, 1035 medium and 2507 smaller fires.

/Casualties

R E S T R I C T E D

R E S T R I C T E D

- 32 -

Casualties: 584 dead (including 74 foreigners),
1340 injured (including 61 foreigners),
& 90000 homeless.

Industrial: Hoeschwerke: Cement factory severely
damaged, likewise electrical department,
locomotive sheds and gas main.
Electrical workshop and model joinery
shop with all models burnt out. Oxygen
plant damaged.
E Willmann Machine & Boiler Works: was
completely destroyed by fire and H.E's.
Dortmund Power Station: 2 cooling towers
completely burnt out, reducing output
from 55000 kw to 15-18000 kw.
Hoesch Petrol Co.: Considerable damage.
Numerous hits on piping and gasometer.
Loss of production 100% for some weeks,
if not months.
Dortmund-Hoerder Foundry, Dortmund:
Power Station hit and switch board
destroyed.
Dto.; Rheinstrasse Works: Switch board
of power station severely damaged,
causing 100% loss in production.
Joh. Doernen Bridge Building Concern in
Dortmund-Derne: was hit by 8 H.E's.,
destroying 60% of the business. In the
remaining parts work will be possible in
4 - 6 weeks.
Hugo Miebach Electro-engine Works:
suffered damage by fire, the stores, a
small mechanical workshop and offices
in the Bornstrasse being burnt out.
Bark & Co. Machine Factory: Works
completely burnt out.

DUESSELDORF
8a 2211 - LGK XII

23/24 JANUARY

Thirty-eight penetrations are reported,
in which 70 aircraft took part. The
area covered included Bochum, Duisberg,
Essen Duesseldorf, Recklinghausen.

Bombs dropped: 20 mines
45 H.E.
22000 incendiary bombs

Casualties: 25 dead, 129 injured.

DUESSELDORF
As above.

27/28 JANUARY

A so-called "disturbance" raid with
centre Duesseldorf, where 2 hospitals
were severely damaged and had to be
evacuated, the Opera House was burnt
down, several factories severely and
many more slightly damaged. The
station was 1/3 destroyed and a Berlin -
Paris express in the station was hit,
causing 15 dead and numerous injured.

/DUESSELDORF

R E S T R I C T E D

R E S T R I C T E D

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DUESSELDORF 25/26 MAY

E. 1679 - Chief, Orpo.
E. 2461 - LGK VI

A medium attack developed from 0137 hours, mainly in the south, west, Oberkassel and Neuss districts.

Bombs dropped: 16 mines (1 dud)
114 H.E. (19 duds)
20360 incendiary bombs
1451 phosphorous bombs

Fires: 14 large, 62 medium & 383 smaller fires.

Houses: 85 destroyed
246 severely damaged
72 medium damage
1829 slightly damaged.

Casualties: 23 dead, 36 injured & 2326 homeless.

Industrial: 2 destroyed
8 severely damaged
3 medium damage
32 slightly damaged.

9 cases of damage to transport and 5 to public services installations.

The South Bridge (Duesseldorf - Neuss) was hit by H.E. and closed.

3 gasometers of the Gas Works were hit, one (40000 cubic metres) being destroyed by a direct hit.

In the Schwietzke Armament factory a large fire was started, as also in the Ruhrstahl Works' pattern joiner's shop. Direct hits were also scored on Boehler & Co., and the Edelstahl Works in Oberkassel.

In addition to Duesseldorf itself a large number of bombs of all types were dropped in country districts in Kempen, Grevenbroich, Bergheim etc. areas. The total bombs dropped in these areas were:

41 mines
580 H.E.
38590 incendiary bombs
3699 phosphorous bombs
217 phosphorous drums

DUESSELDORF 11/12 JUNE

E. 1679 - Chief, Orpo.
E. 2461 - LGK VI
8a 2211 - LGK XII
8a 1151 - Min. of Pub.
inf. & Prop.

This raid took place between 0048 hours and 0235 hours by strong formations, in which about 500 aircraft participated.

/Bombs

R E S T R I C T E D

R E S T R I C T E D

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Bombs dropped: 210 mines
920 H.E. (190 duds or D.A.)
26812 phosphorous bombs
198000 incendiary bombs
8000 incendiary bombs with explosive heads
312 phosphorous drums

Fires: 3 large area fires, 1444 large, 1840 medium and 5598 smaller fires.

Houses: 3879 destroyed
3273 severely damaged
6133 medium damage
16783 slightly damaged.

Public Buildings: 58 destroyed
51 severely damaged
25 medium damage
48 slightly damaged.

Industrial: 60 destroyed
61 severely damaged
37 medium damage
46 slightly damaged

Casualties: 1189 dead, 2768 injured, 26 missing and 140000 homeless.

The town burnt at every bend and turn. Large fires were started in various government and local government buildings, the Town Hall, Central Station, 5 hospitals, 3 police buildings etc., including the Police H.Q. Also hit were a number of public works and supply installations, post and telegraph offices, interrupting telephone communications, and a military installation. Two accommodation ships were burnt out, one fire float sunk and 5 freighters damaged.

Habersang Machine Tool Works: Completely destroyed. 100% loss in production until further notice.
German Pipe Works: The Lierenfeld and Oberbilk works sustained damage resulting in 100% loss in production for 8 days and then 50% for a further 6 weeks.
Schmidt Rolling Machine Works: Total loss. 100% loss in production until further notice.
The Fuesseldorf works of the Oberhausen Gute Hoffnung Foundry: Hit by 2 mines and some 1000 incendiary bombs and phosphorous bombs. No. 1 mechanical workshop burnt down. Pattern Store 80% burnt. Material Store burnt down. Oil stocks undamaged. Joiners and electricians shed burnt down.

/Upper

R E S T R I C T E D

R E S T R I C T E D

- 35 -

Upper floor of pattern joiners shop burnt down. Huts for 120 French and 200 Russian workers burnt out.
Rheinmetall-Borsig Works: 50% destroyed. Damage to main stores, sheet metal workshop and other departments caused 25% loss in production for a short time. In the Duesseldorf-Rath works the electropress shop was destroyed.

DUESSELDORF 22/23 AUGUST
E. 1679 - Chief, Orpo.

This is part of the raid directed against Leverkusen, Wuppertal and Krefeld.

Bombs dropped: 35 mines
172 H.E. (75 duds or D.A.)
30000 incendiary bombs
6900 phosphorous bombs.

Houses: 132 destroyed
644 severely damaged
680 medium damage
2513 slightly damaged.

Fires: 28 large and 400 smaller fires.

Casualties: 18 dead, 89 injured & 1750 homeless.

7 public buildings, 3 administrative buildings, 2 public services installations and 4 public transport installations were hit. 3 Industrial concerns were destroyed and 18 severely or slightly damaged. These include the Krieger Steel Works, Rhenania-Ossag, Boehler, Buederich, Mannesmann Pipe Works. Also damaged were 1 post office building, 4 railway and 11 tramway installations.

DUESSELDORF 3/4 NOVEMBER
E. 1679 - Chief, Orpo.
E. 1322 - Min. of Pub.
Inf. & Prop.

The alarm was sounded at 1923 hours and the all clear at 2055 hours.

Bombs dropped: 146 mines (8 duds)
967 H.E.
187000 incendiary bombs
27580 phosphorous bombs.

Fires: 383 large, 940 medium & 1957 smaller fires.

Houses: 1668 destroyed
1239 severely damaged
1504 medium damage
4700 slightly damaged.

Casualties: 524 dead, 982 injured.

Industrial: 10 works were destroyed and 15 damaged.

/Among

R E S T R I C T E D

R E S T R I C T E D

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Among those hit were:
Gas and Electricity Works,
Schiess A.G.,
Press & Walzwerk,
Deutsche Roehrenwerke,
Vereinigte Kesselwerke,
Mannesmannwerke,
Rheinmetall-Borsig in Rath and Derendorf

4 Railway installations, including the
Central Station and Bilk Station, 7
military and 3 postal installations
were hit. Gas light and water supplies
were interrupted as well as telephone
and teleprinter communications.

DUISBURG
8a 2211 -- LGK XII

8/9 JANUARY

There were 19 penetrations into this
Air Area Command.

Bombs dropped: 12 mines
58 H.E.
17700 incendiary bombs

Casualties: 2 dead, 4 injured.

Severe industrial damage was caused to
the Ruhrort-Meiderich Foundry.

DUISBURG
E. 2601 -- LGK VI
E. 624 -- Min. of Pub.
Inf. & Prop.

26/27 MARCH

The attack commenced at 2148 hours and
lasted until 2235 hours.

Bombs dropped: 7 mines (1 dud)
45 H.E. (21 duds)
4300 incendiary bombs
370 phosphorous bombs
8 phosphorous drums.

Houses: 9 destroyed
79 severely damaged
199 medium damage
1267 slightly damaged

Fires: 2 major, 28 medium and 62 smaller fires.

Casualties: 6 dead, 31 injured & 3252 homeless.

A compressor and a benzol plant of the
firm of Neumuehl in Hamborn was severely
damaged and 100% out of action. The
Lead Works in Hamborn was destroyed
by H.E. Slight damage was caused to
the Law Court at Hamborn, a police
station in Hamborn and 2 bunkers.

/DUISBURG

R E S T R I C T E D

R E S T R I C T E D

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DUISBURG
E. 2601 - LGK VI

8/9 APRIL

Bombs dropped: 6 mines
31 H.E. (6 duds)
5390 incendiary bombs
576 phosphorous bombs

Houses: 35 destroyed
74 severely damaged
89 medium damage
1790 slightly damaged.

Fires: 4 major, 35 medium and 58 smaller fires.

Casualties: 35 dead, 31 injured and 1000 homeless.

Industrial: Slight damage was caused to the Duisburg Cable Works and Deutsche Eisenwerk and a number of other firms. At the August Thyssen Foundry at Ruhrort-Meiderich the elevated ore conveyor was destroyed. At the blast furnace works a store of several machines was burnt out. A blast furnace gas pipe was destroyed over a length of 1000 metres and a warm water pipe for the moulding department for 50 metres.

DUISBURG
E. 2601 - LGK VI
8a 2211 - LGK XII

9/10 APRIL

Between 2300 hours and 2400 hours strong "disturbance" attacks by some 60 aircraft took place on the Western industrial areas.

Bombs dropped: 31 mines
27 H.E. (2 duds)
9490 incendiary bombs
921 phosphorous bombs

Houses: 35 destroyed
66 severely damaged
247 medium damage
3751 slightly damaged.

Casualties: In the whole of the LGK VI casualties amounted to 6 dead and 52 injured.

No severe damage was caused to any industrial concern of major importance. A number of factories were damaged and some rail installations destroyed. The Autobahn was damaged near Bissingheim but the flow of traffic was maintained by means of diversions. Harbour and waterways traffic was not interrupted and medium to slight damage was inflicted on buildings and loading installations.

/Thyssen

R E S T R I C T E D

R E S T R I C T E D

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Thyssen Gas and Water Works in Hamborn suffered considerable damage by a mine and was out of action for 6 hours.

In addition to Duisburg bombs fell also on Muenchen-Gladbach, Oberhausen, Duesseldorf and Wesel. The total for the LGK VI came to:

37 mines
131 H.E. (13 duds)
24080 incendiary bombs
1568 phosphorous bombs
10 phosphorous drums.

DUISBURG
As above.

26/27 APRIL

Penetrations by some 60 aircraft took place and the raid lasted from 0209 hours until 0254 hours.

Bombs dropped: 24 mines
110 H.E. (7 duds)
1443 phosphorous bombs
5075 incendiary bombs.

Fires: 44 major, 110 medium and 210 smaller fires.

Houses: 90 destroyed
283 severely damaged
198 medium damage
1886 slightly damaged.

Casualties: 55 dead, 66 injured.

Air raid police accommodation at the Preussen Sportplatz was destroyed. The telegraph offices at Duisburg and Meiderich were among buildings severely damaged. Freiter and Fischer Varnisa Factory was destroyed and Friemann and Wolff Chemical Products and the Teerverwaltung at Meiderich were among those industrial targets severely damaged. Passenger and goods traffic to the North was interrupted. The Harbour station was severely damaged and temporarily closed and a workshop and rest room at the shunting station destroyed. One ship was sunk and 4 destroyed. Gas water and power mains were damaged at a number of points.

DUISBURG
E. 2461 - LGK VI
8a 2211 - LGK XII
E. 1679 - Chief, Orpo.

12/13 MAY

The raid was carried out by about 200 aircraft from 0150 hours until 0258 hours.

/Bombs

R E S T R I C T E D

R E S T R I C T E D

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Bombs dropped: 92 mines
743 H.E. (48 duds)
90000 incendiary
11285 phosphorous bombs.

Fires: 97 large, 510 medium and 1310 smaller
fires.
Particularly severe fires occurred in
the Centre, Neudorf, Ruhrort, Meiderich
and Hamborn.

Houses: 879 destroyed
1069 severely damaged
1003 medium damage
5425 slightly damaged.

Casualties: 271 dead, 529 injured, 8 missing and
15000 homeless.

In Hamborn-Neuenmuehl an ammunition
dump was blown up. Rail traffic at the
Central Station was stopped as a result
of duds and fire and various lines
closed.

80 H.E. and 2000 incendiary bombs fell
on the Ruhrort harbour area. The
Harbour station was severely damaged by
H.E. and traffic was stopped for at
least a week. 20 ships were sunk and
86 damaged. Damage to a foundry at
Ruhrort-Meiderich caused a loss in
production of 12000 tons of pig iron
and 25000 tons of unrefined steel.

In addition 12 mines (1 dud), 49 H.E.
(4 duds), 98880 incendiary bombs and
620 phosphorous bombs fell on Oberhausen/
Muehleim, causing 6 major, 22 medium and
167 smaller fires and destroying 5
houses and damaging 286 others. 7
industrial concerns were hit and
casualties amounted to 7 dead and 17
injured.

DUISBURG

14/15 JUNE

E. 1679 - Chief, Orpo.
E. 2461 - LGK VI

The alarm was sounded at 0037 and the
all clear at 0236 hours.

Bombs dropped: 8 mines
33 H.E. (11 duds)
6700 incendiary bombs
600 phosphorous bombs

Houses: 57 destroyed
76 severely damaged
157 medium damage
1096 slightly damaged.

Casualties: 8 dead, 23 injured and 3735 homeless.

/Fires

R E S T R I C T E D

R E S T R I C T E D

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Fires: 3 major, 19 medium and 50 smaller fires.

The firms Niemag and Eisenkonstruktion Brand in Hamborn sustained medium damage. Ruhrort Station and Railway Repair Works at Wedau were severely damaged.

In addition to bombs dropped on Duisburg and Oberhausen (see report of this raid on Oberhausen) 5 mines, 29 H.E., 3940 incendiary bombs, 176 phosphorous bombs and 12 phosphorous drums are reported to have been dropped on Duesseldorf, Rheinhausen, Buedrich, Muenchen-Gladbach, Essen and Bottrop, causing some damage.

DUISBURG
As above.

22/23 JUNE

Bombs dropped: 5 mines
14 H.E. (4 duds)
2710 incendiary bombs
778 phosphorous bombs.

Houses: 16 destroyed
22 severely damaged
67 medium damage
943 slightly damaged.

Fires: 1 large, 5 medium and 81 smaller fires.

Casualties: 4 dead and 15 injured.

The Administrative buildings of the Thyssen Gas and Water Works were severely damaged. Hapag stores in the harbour area were partially burnt out. A 1000 ton ship (laden) was severely damaged by fire.

Medium damage was also caused to Hamborn station and the Law Court in Hamborn. The post office there was also slightly damaged. Buildings of the Cellulose Factory at Walsum were damaged.

Of a number of other places on which some 15 mines, 113 H.E., 6090 incendiary and 1770 phosphorous bombs fell, Essen was hit by 5 mines, 8 H.E., 3200 incendiary and 800 phosphorous bombs causing 2 large fires, 18 medium and 31 smaller ones, destroying 28 houses, badly damaging 17 and damaging to a lesser degree 392 others. 18 were killed and 26 injured and 800 rendered homeless. Details of industrial damage not given.

/EDER

R E S T R I C T E D

EDER DAM

E.1679 - Chief, Orpo.

16/17 MAY

This was a low level attack carried out by 3 aircraft which dropped 3 H.E. The resulting damage was 75 metres wide and 20 metres deep. The flow of water through the gap was 2000 cubic metres per second. Electric power from the power station on the Losse was only partially maintained. Trams in Kassel were stopped. By 18 May the water level in Kassel was again almost normal. Road traffic was only slightly interrupted. Water supply by 18 May had risen from 50% to 83%. Except for the cut for trams and the firm of Henschel (for the latter only for a few hours) the electricity supply was maintained. About 1900 were rendered homeless in Kassel town area.

In Fritzlar water, light and telephone services were interrupted. In the surrounding districts of Fritzlar 3 road and 2 railway bridges were destroyed. Water supply was still interrupted on 19 May. Dorf Affoldern in the Waldeck area was seriously affected. 12 corpses were found. The total stock of food and fodder was destroyed. There were 31 dead in the Waldeck area. The railway line Kassel - Marburg - Frankfurt/Main was cut by the collapse of the Eder Bridge and damage to the railway embankment between Grifte and Wabern. Long distance traffic was diverted and local traffic maintained by bus shuttle service. Total area inundated was about 8500 hectares.

Damage to buildings:

Kreis Waldeck:

Houses:	42 destroyed
	32 severely damaged
	39 slightly damaged
Businesses:	60 destroyed
	26 severely damaged
	16 slightly damaged
Public Buildings:	2 destroyed
	2 severely damaged

Fritzlar-Homberg:

Houses:	9 destroyed
	9 severely damaged
	79 medium damage
	25 slightly damaged
Businesses:	2 destroyed
	23 severely damaged
	10 medium damage
	5 slight damage

Kreis Melsungen:

Houses:	5 destroyed
	11 severely damaged
	50 medium damage
	264 slightly damaged
Businesses:	17 destroyed
	7 severely damaged
	24 medium damage
	59 slightly damaged

R E S T R I C T E D

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Public Buildings: 1 each destroyed, severely damaged, medium damage and slightly damaged.

Landkreis Kassel:

Houses: 1 severely damaged
29 medium damage
50 slightly damaged
Businesses: 1 medium damage
4 slightly damaged

Kassel Town:

Houses: 2 destroyed
63 severely damaged
193 medium damage
539 slightly damaged
Businesses: 1 destroyed
4 severely damaged
15 medium damage
25 slightly damaged
Public Buildings: 6 medium damage
2 slightly damaged

Kreis Hofgeismar:

Houses: 5 severely damaged
113 medium damage
233 slightly damaged
Businesses: 6 destroyed
40 slightly damaged
Public Buildings: 5 slightly damaged

Damage to
Bridges:

Destroyed: 4 railway
7 road
8 wooden
Severely damaged: 1 railway
4 road
Slightly damaged: 1 road

Loss of Animals etc.:

63 horses
658 head of cattle
878 pigs
475 sheep
260 goats
8062 small animals
(chickens etc.)
201 swarms of bees

Casualties
(Deaths):

Kreis Waldeck: 31
Kreis Fritzlar-Homberg: 16 (incl. 3
Kreis Melsungen: 3 foreigners)
Kanssel Town: 2

Total 52

EMDEN 21 MAY
E.1679 - Chief Orpo. (USAAF)

From 1200 hours to 1345 hours the North German coastal areas were penetrated in strength from the North Sea, resulting in raids on Wilhelmshaven and Emden.

Bombs dropped: 250 H.E.
300 incendiary bombs

/Houses:

R E S T R I C T E D

R E S T R I C T E D

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Houses: 36 destroyed
22 severely damaged
217 medium or slight damage

Casualties: 5 injured and 400 homeless

Barrack huts at the Naval Equipment Depot were to a large extent destroyed by incendiary bombs. Further damage was caused to Service, industrial, transport and supply installations. Severe damage is reported at the Electro and Machine Factory Schoneboom.

Cables are reported damaged at 15 - 20 points, as well as several cases of damage to gas and water mains.

EMDEN

27 SEPTEMBER

E. 1679 - Chief, Orpo. (USAAF) Between 1100 hours and 1137 hours some
E. 624 - Min. of Pub. 230 aircraft attacked.
Inf. & Prop.

Bombs dropped: 5 mines
875 H.E.
300 Phosphorous bombs
1500 oil bombs

Houses: 58 destroyed
64 severely damaged
44 medium damage
422 slightly damaged

Casualties: 72 dead, 87 injured and 548 homeless

The majority of the bombs fell in open country. One direct hit was scored on the boiler makers shop at the State Wharf. Telephones and electricity, water and gas supplies were partially cut.

EMDEN

11 DECEMBER

E. 1679 - Chief, Orpo. (USAAF) Between 1130 hours and 1315 hours about
E. 1322 - Min. of Pub. 300 machines attacked mainly the Inner
Inf. & Prop. Town.

Bombs dropped: 1500 H.E.
1000 oil bombs

Houses: 195 destroyed
136 severely damaged
169 medium damage
181 slightly damaged

Casualties: 8 dead, 40 injured and 4500 homeless

With one exception no damage was caused to any industrial concern. Practically all damage was in residential areas. Emden West station and railway installations were severely damaged. Damage was also caused to the Gas, Electricity and Water Works.

/ESSEN

R E S T R I C T E D

R E S T R I C T E D

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ESSEN
8a 2211 - LGK XII

9/10 JANUARY

There were 20 penetrations into the Rhein-Westfalian industrial area with focal point Essen.

No record is available of the number or type of bombs dropped. No serious industrial damage is report but considerable damage to property in the residential districts.

Casualties: 20 dead.

ESSEN
As above

13/14 JANUARY

Between 1851 and 1930 hours there were 27 penetrations with Essen and Recklinghausen as primary targets.

Bombs dropped: 24 mines
39 H.E.
38 phosphorous bombs
14581 incendiary bombs

Casualties: 42 dead, 233 injured.

Slight industrial damage is reported but considerable damage to buildings in residential areas.

ESSEN
As above

21/22 JANUARY

The main districts affected by this raid include Essen, Recklinghausen and Duisburg.

Bombs dropped: 25 mines
30 H.E.
1700 incendiary bombs

Casualties: 15 dead and 170 injured.

The report states that major material damage was caused but further details are not available.

ESSEN
8a 2211 - LGK XII
E. 624 - Min. of Pub.
Inf. & Prop.
E. 2601 - LGK VI

5/6 MARCH

Bombs were dropped from 2055 hours to 2150 hours mainly on the Town Centre, Krupps, Altenessen, Essen-West and south of the Central Station.

Bombs dropped: 80 mines (4 duds)
1050 H.E. (114 duds)
122000 incendiary bombs
17000 phosphorous bombs

Fires: 681 major, 728 medium and 1500 smaller fires.

Houses: 3018 destroyed
2166 severely damaged
3566 medium damage
15711 slightly damaged

Casualties: 457 dead, 1592 injured.

/Among

R E S T R I C T E D

Among the many public buildings destroyed were the Town Hall and a number of large stores (shops). Great industrial damage was caused. Large fires were started in various departments of Krupps including the crankshaft factory, the castings department and the Stukawerk. Other fires were started in the drop forge, sheet metal press, the administrative building and the Krupp hospital. About $\frac{1}{3}$ of the complex was a total loss. One H.E. fell on the Flak barracks in Essen Kray, which partially collapsed. Numerous H.E. and incendiary bombs fell on the Central Station causing considerable damage to buildings and rolling stock. Other stations were also hit and the permanent way was cut by craters in a number of places. Two military trains were hit by incendiary bombs. Very severe damage was caused to Th. Goldschmidt A.G., manufacturers of, inter alia, semi-finished metal products, iron alloys, various metal alloys and synthetic resins, resulting in a complete stoppage in all departments until further notice. The main depot of the Essen Tramway Co. was destroyed and 80 tramcars with it.

ESSEN
As above

12/13 MARCH

Penetrations by some 120 - 150 aircraft took place, culminating in a heavy attack in the Duisburg-Essen-Recklinghausen area with focal point Essen. The raid was made under favourable visibility conditions from heights ranging from 6000 down to 3000 metres and was aimed mainly at Krupps, Essen. In addition a number of other places including Buer, Bottrop⁺, Gladbeck, Gelsenberg, Scholven and Oberhausen were attacked. The raid lasted from 2050 hours to 2311 hours.

Bombs dropped: 426 mines and H.E. (189 duds)
44400 incendiary bombs
8500 phosphorous bombs.

Fires: 169 major, 162 medium and 423 small fires.

+ In Bottrop 15 mines, 120 H.E. (38 duds)
45500 incendiary, 1200 phosphorous bombs and 5 phosphorous drums fell on the Town Centre, where 6 large fires, 25 medium and 255 smaller ones were started. Considerable damage was caused to the shopping and residential districts. 85 houses were destroyed and 2405 damaged. Casualties amounted to 30 dead and 59 injured.

/Houses:

R E S T R I C T E D

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Houses: 468 destroyed
514 severely damaged
1129 medium damage
5661 slightly damaged

Casualties: 164 dead and 352 injured.

Industrial: 30 mines and H.E., 10000 incendiary and 100 phosphorous bombs fell on the Krupp complex, causing severe damage to various factory installations including locomotive construction, cable stores, rolling mill and sheet metal presses. In all about 35 workshops were hit. H.E. and incendiary bombs caused wide-spread damage to installations at various railway stations, Bergeborbeck being destroyed. Two trains, one a leave train from the front, were hit.

The total number and types of bombs, apart from those on Essen, which are reported to have fallen in LGK VI, are as follows:

29 mines (2 duds)
263 H.E. (50 duds and 2 D.A.)
107084 incendiary bombs
10823 phosphorous bombs
38 phosphorous drums

ESSEN
As above

3/4 APRIL

This raid which also affected Oberhausen was carried out by about 140 aircraft.

Bombs dropped: 57 mines
120 H.E. (17 duds)
59000 incendiary bombs
12300 phosphorous bombs and drums

Houses: 552 destroyed
386 severely damaged
820 medium damage
5102 slightly damaged

Fires: 200 large, 220 medium and 585 smaller fires.

Casualties: 95 dead, 413 injured and 7000 homeless.

At Krupp Steel Casting Works 27 buildings were hit, $\frac{1}{3}$ of them seriously. Fire damaged a generator and the armourplating rolling mill. Power and water supplies were destroyed in many places.

One railway bridge was destroyed and the permanent way and stations were damaged in many places. One train fell into a bomb crater. A large fire was started in the Seegeroth Goods Station.

/ESSEN

R E S T R I C T E D

R E S T R I C T E D

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ESSEN

E. 2461 - LGK VI
8a 2211 - LGK XII

30 APRIL/1 MAY

From 0236 to 0322 hours penetrations were made by about 120 aircraft.

Bombs dropped: 34 mines
145 H.E. (12 duds)
41900 incendiary bombs
8640 phosphorous bombs

Houses: 146 destroyed
234 severely damaged
245 medium damage
1820 slightly damaged

Fires: 38 large, 114 medium and 236 smaller fires.

Casualties: 45 dead, 224 injured and 4485 homeless.

At Krupps 20 H.E., 10000 incendiary and 30 phosphorous bombs started 10 major, 10 medium and 50 small fires. One gasometer at the firm was burnt out. Much damage was caused to the steel sheet treatment shop, the joinery and casting shops and a repair shop. 46 workshops and offices in all were damaged. The production of steel was reduced by 10000 tons for 4 weeks, mainly due to severe damage to power plants (gas, electricity, water and steam).

Bierhoff-Springorum Oil and Fat Factory in Altenessen was burnt down, destroying 700000 kilo of fats and oils, 4 road tankers with 6000 kilo of machine oil and several thousand empty casks.

Six railway stations were hit.

ESSEN

E. 1679 - Chief, Orpo.
E. 2461 - LGK VI
8a 2211 - LGK XII
E. 2459 - Min. of Pub.
Inf. & Prop.

27/28 MAY

About 120 - 150 aircraft launched a heavy attack from 0045 hours till 0143 hours, mainly on Krupps, the Town Centre, and south of the Central Station.

Bombs dropped: 80 mines
600 H.E. (92 duds)
64000 incendiary bombs
25000 phosphorous bombs

Houses: 475 destroyed
610 severely damaged
965 medium damage
4460 slightly damaged

Fires: 200 large, 100 medium and 300 smaller fires.

Casualties: 191 dead and 509 injured.

/At

R E S T R I C T E D

RESTRICTED

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At the Krupp Steel Works some 30 large and medium fires were started. Medium damage was done to No. 1 Casting plant and Martin Works. Gas mains were damaged and post office telephone lines within the works area were nearly all destroyed.

At Theodor Goldschmidt 1 H.E. destroyed the thermit works and blew down the chimney stack. A further H.E., 130 incendiary and 15 phosphorous bombs caused further extensive damage.

A telescopic container of 15000 cubic meters content at the gas works was damaged and installations in Unionstrasse severely damaged.

A store containing a stock of 40000 captured gasmasks was burnt out.

The bottle store and cooling tower of the Jacob Stauder Brewery in Alternessen were destroyed by 250 incendiary and 20 phosphorous bombs.

All buildings of the Road Transport Contractors van Eupen sustained considerable damage from a mine and several phosphorous bombs. The garage, workshops and stores were destroyed as well as 6 lorries and a number of furniture and goods waggons.

14 horses were killed.

The Berliner Bridge was destroyed. All rail traffic to the West was temporarily suspended owing to the destruction of the whole network.

Ladewig Vehicle Works were severely damaged by 1 H.E., 160 incendiary and 20 phosphorous bombs which destroyed 30 military vehicles.

Loss of production 50% for 4 weeks and then 20% for some months.

A number of neighbouring towns and country districts were also affected and the following number of bombs were dropped on places other than Essen:

17 mines
160 H.E.
24462 incendiary bombs
3282 phosphorous bombs

Damage caused in these districts includes: The low temperature carbonization plant and a gasometer of the Hydrogenation Plant in Scholven, Gelsenberg-Bensin A.G., the Gelsenkirchen Chemical Industry, Ruhroel A.G. and the Bismarch pit in Gelsenkirchen were badly damaged. The Glass and Mirror factory was also hit. The boilerhouse of the Gute Hoffnung Foundry in Oberhausen was hit, resulting in 100% fall in production in part of the works for an indefinite period. In Bochum a gasometer was burnt out. A number of houses were also destroyed or damaged and there were a number of casualties, both dead and injured.

/In

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In the whole of the LGK VI area the following number of bombs dropped is reported:

98 mines
786 H.E. (111 duds)
87912 incendiary bombs
28163 phosphorous bombs
Casualties: 312 dead and 804 injured.

ESSEN

25/26 JULY

E. 1679 - Chief, Orpo.
8a 1151 - Min. of Pub.
Inf. & Prop.

This raid was carried out by about 400 aircraft from 23.56 hours to 02.10 hours. The area chiefly hit was Krupps and the adjacent parts of the Town.

Bombs dropped: 363 mines
1557 H.E. (99 duds and 60 D.A.)
107000 incendiary bombs
46650 phosphorous bombs

Fires: 550 major, 800 medium and 2100 smaller fires.

Houses: 2852 destroyed
1077 severely damaged
1200 medium damage
6731 slightly damaged

Casualties: 502 dead, 1898 injured, 4 missing and 52926 homeless.

Industrial Buildings: 51 destroyed
83 severely damaged
69 medium damage
28 slightly damaged

Transport: 3 railway buildings destroyed
8 railway buildings severely damaged
15 " " medium damaged
6 trains hit, 16 passenger and 180 goods waggons destroyed. 11 passenger and 100 goods waggons damaged.
7 lines closed to traffic
2 Flak sites hit
Damage to 95 sewers, 15 electricity cables, 91 water mains and 25 gas mains. There was major dislocation in the railway and police telephone networks. Among buildings destroyed were: Reichsbank, Main Fire Station, Telegraph Office and water supply installations. Details of the damage done to industry are not given in the available reports. Firms badly damaged include: Krupps and 2 pits belonging to Krupps, a brewery and Hoppe & Co., a firm of road transport contractors. A direct hit was scored on the Central Post Office considerably interrupting telephone and teleprinter communications. Severe damage by H.E. and fire was caused to the Central Station. The Head Office of the Tramway Co. and the depot at Grillostrasse /were

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were destroyed by fire as well as several trams. 16 cases of damage to tramwires and 8 to tracks are reported. The water tower at Steeler-Berg ran dry.

FLENSBURG 19 MAY
E. 1679 - Chief, Orpo. (USAAF)

About 55 aircraft launched this attack between 1319 hours and 1409 hours.

Bombs dropped: 450 H.E. (25 duds or D.A.)
a number of incendiary bombs.

Houses: 16 destroyed
80 severely damaged
400 slightly damaged

Casualties: 81 dead, 124 injured and 2000 homeless.

The north-west part of the town round the harbour was particularly severely hit. Damage causing a drop in production of between 50 and 90% was inflicted on the shipbuilding yards and stores. The machine shop, new dock and other installations of the Armaments Wharf were damaged. The Johannsen and Soerensen Machine Factory suffered severe damage. Both gasometers at the gas works were damaged and burnt out, resulting in a loss of production for about 14 days. There was also damage inflicted on the railway and tramway rolling stock. 9 goods trucks were destroyed and 24 others damaged. There was also some destruction at the Power Station and of some cables. The main gas supply pipe and buildings of the gas works were destroyed. Water supply was also cut off for about 2 days. In the harbour 1 tug, 1 fire float and a dredger were sunk.

FRANKFURT

10/11 APRIL

8a 2211 - LGK XII
E. 2576 - LGK XII
Summaries

Some 18- 0 200 aircraft were employed, flying at medium to high altitudes. Speed 350-450 k.p.h. Towns, besides Frankfurt, affected by this raid include Mainz, Darmstadt, Wiesbaden and a large number of smaller places, numbering about 81 in all.

Bombs dropped: 23 mines
202 H.E. (46 duds and 8 D.A.)
14300 incendiary bombs
1640 phosphorous bombs
216 phosphorous drums
and a number of new type phosphorous bombs with time fuse, which exploded in the air and sprayed burning phosphorous.

Houses: 100 destroyed
420 severe to medium damage

Casualties: 20 dead and 72 injured.

/Decoy

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Decoy Sites: 4 mines, 145 H.E., 46600 incendiary, 450 phosphorous bombs and 50 phosphorous drums were dropped on 10 sites.

Very little damage was caused by this raid. In Mainz Work 2 of the Rheinische Maschinenbau Anstalt was burnt out.

FRANKFURT

4/5 OCTOBER

E. 2576 - LGKMXII
Summaries

The following details combine the figures for 3 raids in this month (2 R.A.F. and 1 USAAF), the heaviest of which was on 4/5 October. No other details are available.

Bombs dropped: 83 mines
3939 H.E. (96 duds)
246000 incendiary bombs
11500 phosphorous bombs
1110 oil bombs

Houses: 2975 destroyed
11465 damaged

Casualties: 598 dead and 2261 injured.

FRANKFURT

25/26 NOVEMBER

E. 1322 - Min. of Pub.
Inf. & Prop.
E. 1679 - Chief, Orpo.
E. 2576 - LGK XII
Summaries

This raid is termed a "medium terror" raid. It was carried out by about 300 aircraft which attacked in 3 or 4 waves. Those parts of the town most affected were the Old Town, Offenbach and the Osthafen in Frankfurt.

Bombs dropped: 87 mines
325 H.E. (58 duds and 5 D.A.)
169950 incendiary bombs
2559 phosphorous bombs
a number of flares and marker bombs.

Houses: 120 destroyed
1420 damaged

Fires: 43 large, 125 medium and 331 smaller fires.

Casualties: 52 dead, 328 injured, 45 buried and 6000 homeless.

The Offenbach works of I.G. Farben were severely damaged and some military buildings were destroyed and damaged. Damage was also caused to railway buildings, rolling stock and permanent way. The line to Hanau was temporarily closed owing to the destruction of the main line. There was much damage to water and gas mains. The bridge over the Main at Fechenheim was hit and one Flak H.Q. was destroyed. The Continental Vulcanising Works and the Dunlop Rubber Works were hit as well as a number of leather and shoe factories.

/FRANKFURT

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FRANKFURT

20/21 DECEMBER

E. 1679 - Chief, Orpo.
E. 1322 - Min. of Pub.
 Inf. & Prop.

Between 200 and 250 aircraft took part in this raid, the main target of which was the Altstadt. Large fires were started near the Central Station and in the north-east and Offenbach sectors.

Bombs dropped: 126 mines
 636 H.E.
 275000 incendiary bombs
 19400 phosphorous bombs
 50 oil bombs

Houses: 371 destroyed
 491 severely damaged
 1141 medium damage
 3200 slightly damaged

Fires: 164 large, 548 medium and 1497 smaller fires.

Casualties: 109 dead, 512 injured, 2300 homeless.

Damage caused includes:
failure at the Electricity Works,
Oberforsthaus water works destroyed,
Goods station, Niddastrasse,
Coal dump in the Osthafen, various
military barracks and hutments,
I.G. Farben, Offenbach.
20 were killed in a railway train.
The Gas Works were put out of action
as a result of several direct hits.

Not included in the above are details of that part of the raid which fell on Mainz, of which the following particulars are available.

Bombs dropped: 18 mines
 50 H.E.
 1350 incendiary bombs

Casualties: 12 dead, 35 injured and 881 homeless.

Houses: 62 destroyed
 101 severely damaged
 29 medium damage
 100 slightly damaged

At Neu Isenburg, which was particularly badly hit, the town centre was completely destroyed by 20 mines, 60 H.E., 30000 incendiary and 3000 phosphorous bombs. 300 homes were destroyed, 600 suffered severe, 300 medium and 450 slight damage. Casualties amounted to 45 dead and of 1600 inhabitants about 7000 were rendered homeless.

/FRIEDRICHSHAFEN

R E S T R I C T E D

FRIEDRICHSHAFEN

E.1679 - Chief, Orpo.
 8a 2341 - LGK VII War
 Diary
 8a 1151 - Min. of Pub.
 Inf. & Prop.

20/21 JUNE

About 100 aircraft entered the Luftgau on a broad front, using 26 routes between 0105 and 0150 hours and carried out the attack in 3 waves between 0240 and 0320 hours. They flew mostly at 2 - 3000 metres but some single aircraft flew at heights varying from 800 - 4000 metres. Speed: 110 to 130 metres per second. Recognised types: Stirling, Lancaster. It would appear that the target for the attack was exclusively the Zeppelin Works.

Bombs dropped: 2 mines
 263 H.E. (29 duds or D.A.)
 5000 incendiary bombs
 2000 phosphorous bombs

Houses: 98 destroyed
 4 severely damaged
 962 slightly damaged

Casualties: 50 dead, 148 injured and 782 homeless.

Industrial: 5 destroyed
 18 severely damaged
 59 slightly damaged

The Lowenthal 6000 cubic metre gasometer was burnt out. At the Mayback Motor Works the pattern maker's shop and wood store and a water pumping station were damaged by H.E. The wind tunnel of the Airship station Zeppelin was burnt out and several workshops destroyed. A concrete tunnel was also destroyed by a direct hit. The electron casting department was 50% destroyed by fire and put 100% out of action for probably 2 - 3 months. About 20 H.E. fell on these works. Three huts were destroyed at the Allmannsweiler Dornier Works. There were 20 cases of damage to water mains, 10 to gas mains and 45 to electricity.

Flak Defences: The following rounds of ammunition were expended:

424	--	10.5 cm.
3313	--	8.8 cm.
2555	--	2 cm.
1318	--	3.7 cm.

NOTES: (a) On 21 June two Flak units (2./460 and 2./506) were moved to Friedrichshafen.

(b) In comparison with the number of aircraft the number of bombs as certified up till now is very small. This is explained by the fact that the aircraft flew on to the South through Switzerland and Italy and from there probably to Africa. (Greater flying distances with correspondingly more fuel consumption, caused also by flying over the Alps.)

/GELSENDKIRCHEN

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GELSENKIRCHEN

25/26 JUNE

E. 1679 - Chief, Orpo.
E. 2461 - LGK. VI
8a 1151 - Min. of Pub.
 Inf. & Prop.

This is part of the raid when between 0030 and 0240 hours strong penetrations were made into the Rhein-Westfalian Industrial areas where the main weight fell on Bochum.

Bombs dropped: 9 mines
 116 H.E. (22 duds)
 8550 incendiary bombs
 3230 phosphorous bombs

Fires: 49 large, 200 medium and 500 smaller fires.

Houses: 68 destroyed
 98 severely damaged
 387 medium damaged
 2861 slightly damaged

Casualties: 42 dead, 189 injured and 4859 homeless.

Damage was caused to the Deutsche Iron Works, Grillo-Funke, Ruhrstahl A.G. and the Deloch Glass Factory. Serious damage was also caused to the Scholven Filter Works by fire. Damage causing some lines to be closed was also done to railway buildings and installations.

In 8 localities the following additional bombs were dropped:

5 mines
126 H.E.
7719 incendiary bombs
2855 phosphorous bombs

These caused 2 major, 29 medium and 167 smaller fires and the following damage to houses:

30 destroyed
87 severely damaged
141 medium damage
2891 slightly damaged

Casualties in these localities amounted to 19 dead and 100 injured.

GELSENKIRCHEN

9/10 JULY

E. 1679 - Chief, Orpo.
8a 1151 - Min. of Pub.
 Inf. & Prop.

It will be seen from the following that the primary target (Gelsenkirchen) was not nearly so severely hit as Bochum, on which town far greater quantities of bombs were dropped.

Bombs dropped: 4 mines
 52 H.E.
 some 5000 incendiary bombs
 some 500 phosphorous bombs

Fires: 2 major, 10 medium and 50 smaller fires.

/Houses:

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R E S T R I C T E D

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Houses: 12 destroyed
35 severely damaged
115 medium damage
880 slightly damaged

Casualties: 24 dead and 35 injured

6 industrial plants were damaged.
The Municipal Transport Park was burnt out.
Two timber yards were also destroyed by fire and fire damaged the Ruhr A.G. The mechanical workshop of the Schelker-Verein suffered severe damage.

HAGEN

1/2 OCTOBER

E. 2459 - Min. of Pub.
Inf. & Prop.

The raid was carried out in 3 waves, the first of approximately 50 - 80 aircraft. It was estimated that a total of about 300 aircraft took part. Rendez-vous was to the north and north-east of Hagen so that it was uncertain whether Hamm or Dortmund was to be the target. The raid on Hagen started at 2150 hours and went on till 2245 hours. The whole town area, excluding a few peripheral districts, was hit. The Telegraph Office, Main Post Office and the Central Station were hit but available records give no further details.

HAMBURG

3/4 FEBRUARY

8a 2211 - LGK XII

Penetrations by some 60 aircraft which attacked the harbour area are reported but no details of the damage inflicted are give.

Bombs dropped: 50 H.E.
7000 incendiary bombs

Casualties: 11 dead, 9 injured and a number missing.

HAMBURG

3/4 MARCH

39 penetrations by 80 - 90 aircraft are reported. A large scale attack developed.

Bombs dropped: 6 mines
180 H.E. (Several duds or D.A.)
25000 incendiary bombs

Casualties: 35 dead

The suburb of Wedel was practically wiped out. (This should probably read Veddel, which lies between Hamburg and Harburg. Wedel is well down on the right bank of the Elbe). The Vacuum Oil Co. suffered 100% decrease in production.

HAMBURG

For Effect of Raids between 25 July and 3 August see Appendix A.

/HAMBURG

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HAMBURG

13 DECEMBER

E. 1679 - Chief, Orpo. (USAAF) An attack of medium strength developed by
E. 1322 - Min. of Pub. 150 - 200 aircraft in 4 waves. The main
Inf. & Prop. areas affected were the Harbour, West and
Central Sectors.

Bombs dropped: 4 mines
586 H.E.
5550 incendiary bombs
300 phosphorous bombs
558 oil bombs

Houses: 98 destroyed
138 severely damaged
849 medium to slight damage

Casualties: 206 dead, 389 injured, 37 missing and
2840 homeless.

Targets hit include:
Blohm & Voss; Howaldt Works; Mackensen
Barracks; Harburg station with a train
severely hit. Railway traffic to the
West temporarily suspended. The Phoenix
Harburg Tyre production fell by 50 to 60%.

HAMM

4 MARCH

E. 2601 - LGK VI (USAAF) This raid took place at about 1045 hours.

Bombs dropped: 41 H.E. (12 D.A. or duds, 4 D.A. on the
station).

Houses: 30 destroyed
20 severely damaged
74 medium damage
282 slightly damaged

Casualties: 139 dead and 164 injured.

Because of damage to the track and the duds
all goods and passenger traffic was sus-
pended until 0600 hours on 5 March.

Direct hits on the Westfalian Wire
Industry caused considerable damage.
One oven in the steel hardening depart-
ment was destroyed. There ensued a loss
in production of 50% for an indefinite
period. The transformer room of the
United Westfalian Iron and Steel Industry
received a direct hit, causing 100% loss
of production for 48 hours, after which
time partial production could be resumed.

HANOVER

26 JULY

E. 1679 - Chief Orpo. (USAAF) From about 1148 hours until 1340 hours
8a 1151 - Min. of Pub. about 100 aircraft carried out a raid on
Inf. & Prop. the Town Centre and the outer suburbs.

Bombs dropped: 188 H.E. (11 duds or D.A.)
25000 incendiary bombs
10 oil bombs
a large number of phosphorous bombs (20 duds)

/Fires:

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Fires: 19 major, 43 medium and 42 smaller fires.
Houses: 95 destroyed
122 severely damaged
387 slightly damaged
Casualties: 212 dead, 691 injured, 25 missing and
2200 homeless.

The main targets hit included the Continental Rubber Works, Lindner Iron and Steel Works, the Town Hall, the Police H.Q., the Central Station and main goods station. Damage was also caused to the Mannesmann Steel Pipe Works and Seegers Toothed Wheel Works.

HANOVER

22/23 SEPTEMBER

E. 1679 -- Chief, Orpo.
E. 624 -- Min. of Pub.
Inf. & Prop.

This raid was carried out by about 250 aircraft from 2143 hours until 0041 hours. The districts of Laatzen, Wuelfel and the town area between Maschsee and the South Station were the most affected.

Bombs dropped: 9 mines
497 H.E.
50000 incendiary bombs
200 incendiary bombs with explosive heads.
768 phosphorous bombs
18 oil bombs
18 phosphorous drums

Fires: 374 large, 287 medium and 248 smaller fires.

Houses: 287 destroyed
372 severely damaged
1975 medium to slight damage

Casualties: 90 dead and 184 injured.

17 industrial concerns were destroyed, 1 severely damaged and 1 slightly. The acetylene plant at the Hanomag works, an Iron Works and a chemical works in Wuelfel were damaged by fire. The Goods station at Hanover South was destroyed and a railway bridge at Waldhausen was also destroyed.

Among military targets hit were: Army Kommandantura, Staff building of the Flakbrigade, a barracks and a subsidiary stores of the Doehren munitions factory.

The State Archives were damaged by H.E.

In addition over 200 H.E. and a large number of incendiaries were dropped in the surrounding districts of Hanover. These killed 10, injured 13 and destroyed, inter alia, a German Air Force barracks and 67 houses.

/HANOVER

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HANOVER
As above

27/28 SEPTEMBER

Strong formations, about 300 aircraft, penetrated between 2200 hours and 2400 hours from a westerly and north-westerly direction as far as Hanover. The north, north-eastern and north-western sectors, particularly Langenhagen, were the main targets.

Bombs dropped: 500 mines and H.E.
30000 incendiary bombs
1650 phosphorous bombs

Houses: 132 destroyed
290 severely damaged
694 slightly damaged

Casualties: 59 dead, 124 injured, 32 missing.

The Central Station was destroyed and a train buried. Rail communications to Kassel and Hamelin were temporarily suspended. The main water works at Berkhof was also put out of action.

16 industrial targets were destroyed.

Damaged by fire were:-

Guenther Wagner Chemical Works,
Max Mueller Iron Works,
Hackethal Wire and Iron Works,
Continental Rubber Works
and some barracks

Emmelmann Coach Builders and the Technical High School were also hit.

A 30000 volt grid, supplying the north of the town with electricity, was temporarily put out of action.

HUELS

22 JUNE

E. 1679 - Chief, Orpo. (USAAF)
E. 2461 - LGK VI
8a 1151 - Min. of Pub.
Inf. & Prop.

This raid took place between 0935 and 1050 hours and some 100 - 120 aircraft took part. For fuller details of the damage caused, see USSBS report on the Huels Synthetic Rubber Plant.

Bombs dropped: 11 mines
610 H.E. (45 duds)
30 phosphorous bombs
of which about 200 (6 duds) fell
on the Chemical Works (Buna).

Houses: 13 destroyed
61 severely damaged
70 medium damage
155 slightly damaged
Also 9 hutments destroyed or severely damaged.

Casualties: 245 dead (194 in the Buna works)
716 injured (607 in the Buna works)
764 homeless

/At

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At the Chemical Works (Buna) the communications network was partially destroyed. 100% loss in production for several weeks resulted from the damage.

Particular damage was caused to the polymerisation plant in 2 buildings, the styrene factory, the Buna testing plant, the Linde gas distribution and acetylene compressor plant. The boiler house and turbine plant also received direct hits.

INNSBRUCK

15 DECEMBER

E. 1679 - Chief, Orpo. (USAAF)

This raid, in which about 50 aircraft took part, was between 1246 hours and 1305 hours. The attack came from a south-easterly direction and was directed mainly against railway installations, the inner town and around the West station.

Bombs dropped: 200 H.E. (24 duds)

Fires: 4 large, 8 medium and 7 smaller fires

Houses: 45 destroyed
51 severely damaged
42 medium damage
203 slightly damaged

Casualties: 145 dead, 469 injured, 18 buried, 24 missing and 1627 homeless.

One police barracks was destroyed by a direct hit and one hospital was destroyed. The Central, West and Hoetting Stations were either destroyed or damaged severely, likewise the railway repair shops and sidings at the goods station. The railway bridge on the line to Feldkirch was destroyed, thereby cutting the line.

INNSBRUCK

19 DECEMBER

E. 1679 - Chief, Orpo. (USAAF)

E. 1322 - Min. of Pub.

Inf. & Prop.

About 75 aircraft in 2 waves carried out the raid from a southerly direction at a height of about 5 - 6000 metres.

Bombs dropped: 300 H.E. (15 duds D.A.)

Fires: 1 large, 4 medium and some smaller fires.

Houses: 56 destroyed
21 severely damaged
18 medium damage
50 slightly damaged

Casualties: 49 dead, 81 injured and 1200 homeless.

The Brenner Line between the Central Station and Berg-Isel tunnel was hit in several places. Only temporarily out of use. The Freight and West stations were severely damaged.

JENA

R E S T R I C T E D

R E S T R I C T E D

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JENA
E. 1679 - Chief, Orpo.

27 MAY

This was a low level attack made by 3 - 4 aircraft on the inner town, the Zeiss and the Schott & Co. works during the evening.

Bombs dropped: 28 H.E. (13 duds or D.A.)

Houses: 9 destroyed
120 slightly damaged

Casualties: 10 dead and 199 injured. 353 were rendered homeless.

Medium damage was caused to the Zeiss Main Works and slight damage to the South Works and to Schott & Co. Damage at Zeiss resulted in a decrease in production of 90%.

There was also some damage to the residential district of the town centre and the station at Kahla was hit.

KASSEL 28 JULY
E. 1679 - Chief, Orpo. (USAAF)
8a 1151 - Min. of Pub.
Inf. & Prop.

The air raid warning lasted from 1031 hours to 1130 hours. The suburb of Bettenhausen was mainly affected by approximately 100 aircraft.

Bombs dropped: 220 H.E.
70 oil bombs

Houses: 7 destroyed
11 medium damage
213 slightly damaged

Casualties: 44 dead (incl. 19 foreigners)
113 injured (incl. 34 foreigners)

Severe damage is reported to the Junkers works and at the Fieseler Works fire damaged Nos. 1 and 2 Workshops. At the Spinnfaser Works a foreign labour camp and the Viscose Factory were destroyed. Several hits were scored on the Central Station and 4 trucks of a goods train near Waldau were burnt out, the train being derailed.

KASSEL
As above

30 JULY
(USAAF)

Bettenhausen was again the district mainly affected when about 250 aircraft paid a visit at about 0930.

Bombs dropped: 500 H.E. (40 duds)
310 oil bombs
90 incendiary bombs

Houses: 61 destroyed
130 severely damaged
121 medium damage
231 slightly damaged

Casualties: 209 dead, 146 injured and 2600 homeless.

/Industrial

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Industrial Works: 5 severely damaged
8 medium damage
3 slightly damaged

Medium damage was caused to 3 military installations and the electricity works were also hit. The railway line from Kassel-Bettenhausen to Waldkappel was destroyed. Several instances of damage to gas mains are reported.

Concerning the damage to industrial works the following details are available. Junkers Aircraft and Aero-engine Works: 136 H.E. bombs hit the works. 4 halls and 3 huts were destroyed and 4 other halls were severely damaged. This resulted in 100% production decrease for an indefinite period.

Fieseler Aircraft Works: Severe damage in Works I by 15 H.E. and in Works II by 23 H.E. bombs.

Spinnfaser A.G.: Considerable damage in the whole complex. 80% production decrease for an indefinite period.

KASSEL

E. 1322 - Min. of Pub.
Inf. & Prop.

22/23 OCTOBER

No details of the number of aircraft participating or bombs dropped are available but dated 12 November the following report of some of the damage caused is given:

75 - 80% of all buildings were destroyed. The main business quarter was completely wiped out.

Fires: Some 1600 major, 1000 medium, several thousand smaller and 2 area fires in the Old Town and Town Centre.

Damage to buildings:

Destroyed: 6500 houses
14 banks
11 Stores (shops)
20 warehouses
58 factories
2 railway and post office buildings

Severely damaged: 2500 houses
17 factories
12 railway and post office buildings

Medium damage: 1000 houses
4 warehouses
8 factories

Slightly damaged: 2000 houses
8 factories
1 railway installation

/Military

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Military Installations: Buildings at the Husarenkaserne; East and West Barracks; several heavy transport storehouses and workshops; the administrative building etc. of the Garrison Commander; buildings of the Hindenburg Barracks; a transport hall and ammunition store (bunker) of the Jaeger Barracks were destroyed. Practically all other military installations were damaged to a greater or lesser degree.

A very large number of State and local government buildings were destroyed or severely damaged.

The coal conveyor installation at the Losse Works was destroyed. The Gas Works were put out of action as a result of failure of 3 gasometers and the chief gas main.

The Central Station, together with several trains, diesel engines, numerous coaches insidings, signal boxes and all ancillary installations, was completely destroyed. Large bomb craters damaged the permanent way. The shunting station was destroyed by the blowing up of an ammunition train, as were also the trucks in the sidings and 6 other railway buildings. Three other stations and the railway repair works were severely damaged. Freight, express and baggage traffic was temporarily suspended.

All the available 67 heavy raid alarm systems were put out of action.

Casualties amounted to 5248 dead.

A report dated 1.11.43 states that the output of electricity was 5000 kilowatt as against a normal output of 15000 kilowatt. Also that the water supply would be restored by "tomorrow evening". It also states that the Radio Station was being rebuilt and could operate "as soon as power was available".

KIEL

E. 2391 - Pol. Pres.
E. 2879 - Analysis
of Sit. Reps.

4/5 APRIL

Of 125 aircraft reported entering Schleswig-Holstein only 47 reached the A.A. area of Kiel and 18 the bomb-dropping area. The alarm was from 2232 hours until 0018 hours.

Bombs dropped: 60 H.E. (6 duds or D.A.)
2000 incendiary bombs
1056 phosphorous (13 duds)
11 fragmentation bombs (2 duds)
50 flare incendiary bombs

Houses: 11 destroyed
46 severely damaged
134 slightly damaged
434 damage to roof and glass only.

Casualties: 25 dead, 61 injured and 429 homeless.

/4

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R E S T R I C T E D

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4 gas and 2 water mains were fractured and 2 overhead electric cables damaged. The main line from Kiel to Hamburg was very severely damaged but repaired in 10 hours. A major fire occurred at the old Kolbe (now naval) dockyard and slight damage was caused by stick incendiary bombs to the firm of Anschuetz & Co.

KIEL

14 MAY

E. 1679 - Chief, Orop. (USAAF)
E. 2391 - Pol. Pres.
E. 2879 - Analysis of
Sit. Reps.

About 50 - 60 aircraft dropped their bombs in about 9 minutes from a height of some 7 - 8000 metres at midday.

Bombs dropped: 505 H.E. (62 duds)
6000 stick incendiary bombs

Houses: 262 destroyed
129 severely damaged
1900 slightly damaged
220 damage to roof and glass only

Casualties: 354 dead, 762 injured (not including service personnel) and 3780 evacuated and 5000 temporarily accommodated elsewhere.

The East Fire Station was severely damaged by H.E., destroying fire appliances and engines. The Police Wing of the Gaarden Barracks suffered considerable damage. Buildings of the barracks in the Pickertstrasse were severely damaged, the West wing being burnt out. Considerable damage was also caused to the electricity supply and telephone system, as well as to the gas and water supply and overhead tram cables. 9 water and 4 gas mains and 2 sewers were damaged. The tram depot in the Werftstrasse was destroyed and there was much damage to tram tracks. The Tonberg Goods Station and an air raid shelter were destroyed, killing 35 and injuring 22. Buildings of the Municipal Transport Co. were destroyed including the administrative building in the Kaistrasse. The Germania Dockyard suffered great material damage. A number of oil and petrol installations were also destroyed or severely damaged, in one of which 30000 kilos of oil were destroyed. The passenger ship "Stadt Kiel" was sunk and other vessels were either sunk or burnt out.

KIEL

As above

19 MAY
(USAAF)

Approximately 120 aircraft carried out an attack for about 31 minutes, in which the southern and south-eastern suburbs of the town were mainly affected.

Bombs dropped: 253 H.E. (36 duds or D.A.)
1000 incendiary bombs (200 duds)

/houses

R E S T R I C T E D

R E S T R I C T E D

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Houses: 22 destroyed
25 severely damaged
87 slightly damaged

Casualties: 11 dead, 12 injured, 77 homeless and 440 temporarily accommodated elsewhere.

The suburb of Elmschenhagen suffered severe damage. A hutted camp in Elmschenhagen South and barrack huts at am Weinberg were hit by incendiary bombs. A transformer works at Wellsee, where 63 H.E. bombs were dropped, was hit by 12 H.E. The telephone service was interrupted. No damage was caused to official buildings, transport installations or industrial plants.

On 14 country communities in Schleswig-Holstein, principally in the neighbourhood of Kiel, 137 H.E., some 1300 incendiary and 100 oil bombs were dropped. These caused material damage to a number of farmsteads and farm installations and casualties amounted to 13 dead and 5 injured.

KIEL

As above & (USAAF)
8a 1151 - Min. of Pub.
Inf. & Prop.

13 JUNE

Some 60 aircraft attacked from a height of 8000 metres in one wave, while another wave of 60 aircraft flew past Kiel in a S.E. direction towards Selenter See - Hohwachter Bucht. The raid lasted about ten minutes.

Bombs dropped: 86 H.E. (3 duds)

Houses: 15 destroyed
32 severely damaged
27 slightly damaged

Casualties: 26 dead, 40 injured and 45 homeless.

The carpenter's shop of the firm of Anschuetz in Neumeuhlen was hit and a direct hit was scored on the Electricity Works at Schwentine.

KIEL

As above

(USAAF)

25 JULY

This raid took place between 1650 hours and 1700 hours by about 60 - 80 aircraft from a height of 6 - 8000 metres.

Bombs dropped: 189 H.E. (32 duds of D.A.)
1142 phosphorous bombs
180 oil bombs (100 lbs.)

Houses: 27 destroyed
47 severely damaged
192 slightly damaged
670 damage to roof and glass only

Casualties: 19 dead, 52 injured and 295 homeless.

/The

R E S T R I C T E D

R E S T R I C T E D

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The accommodation ship "Hamburg" was sunk and the steamer "Wollin" was set on fire. A floating dock was sunk by 7 H.E. hits. At the Howaldt Works, the fire Station, the new stores and the new metal workshops were destroyed and H.E. and incendiary bomb hits were scored on the DeutscheWerke. Much damage was done to the tramway system and also to the gas and water mains and to the electricity supply and telephone network.

KIEL

29 JULY

E. 1679 - Chief, Orpo. (USAAF) Some 120 aircraft flew in several waves at heights varying from 6000 to 8500 metres and attacked in particular the ship yards and the east bank. The alarm lasted from 0843 to 0957 hours and the first bomb fell at about 0902 hours.
E. 2391 - Pol. Pres.

Bombs dropped: 426 H.E. (8 duds or D.A.)
292 oil bombs (62 duds)

Houses: 122 destroyed
107 severely damaged
50 slightly damaged
631 roof and glass damage only

Fires: 2 large and 10 medium fires.

Casualties: 4 dead, 36 injured and 800 homeless.

Damage was caused to 12 gas, 12 water and 7 electricity supply mains and also to telephone cables. 2 H.T. cables were destroyed.

The main building of Anschuetz & Co. was severely damaged by oil bombs, where a large fire started.

In the harbour area 2 naval vessels were damaged (1 half sunk) and a floating dock in the Schwentine was sunk. Some damage was also done to quay installations.

At the Deutsche Werke a direct hit was scored on the Ellerbeckertor wharf wall. Between 50 and 100 H.E. fell on the Howaldt Works and hits were scored in all the larger halls, among which were the engine factory, the drop forge and the shipbuilding hall. The E. works were hit and the pay office destroyed. Damage to cables caused a power failure. The rigging loft and the fine mechanics workshops were destroyed. A number of buildings and installations in the Naval Arsenal and in the Arsenal Basin were hit and damaged.

KIEL

13 DECEMBER

E. 1679 - Chief, Orpo. (USAAF) This was a medium raid carried out by about
E. 2391 - Pol. Pres. 100 aircraft between the hours of 1308 and
E. 2879 - Analysis of Sit. Reps. 1320. The main areas attacked were the
Town Centre and the suburb of Gaarden.
E. 1322 - Min. of Pub. Inf. & Prop.

/Bombs

R E S T R I C T E D

R E S T R I C T E D

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Bombs dropped: 575 H.E. (33 duds or D.A.)
1028 oil bombs (14 duds)
28172 incendiary bombs

Houses: 455 destroyed
228 severely damaged
240 medium damage
2822 slightly damaged

Fires: There were 3 large area fires.

Casualties: 142 dead and 409 injured. Also 4777 people were rendered homeless.

Targets hit include:
The Post Office,
The Deutsche Werke,
The Germania Yards,
The Tramway Depot.

There was a breakdown of all telephone communications in Kiel and a partial breakdown in the teleprinter service. The Town Hall was also severely damaged. A soldiers hostel and living accommodation for female Flak staff was destroyed by fire. The Nautical Workshops suffered severe damage, the office building being completely burnt out. A large number of vessels in the harbour was hit but suffered in the main only superficial damage. One steamer, the "Alexandra" received 2 direct hits and sank immediately.

KREFELD

21/22 JUNE

E. 1679 - Chief, Orpo.
E. 2461 - LGK VI
8a 1151 - Min. of Pub.
Inf. & Prop.

From 0137 hours until 0232 hours between 200 and 300 aircraft attacked and left the whole town centre burning. About 2/3 of the town were destroyed. Industrial areas on the outskirts of the town, however, were untouched.

Bombs dropped: 450 mines (35 duds)
1500 H.E. (130 duds)
60000 incendiary bombs
20000 phosphorous bombs

Houses: 6000 destroyed
1550 severely damaged
3000 medium damaged
4500 slightly damaged

Fires: 223 large 655 medium and 487 smaller fires. One fire extended over an area of about 2½ x 1½ kilometres.

Casualties: 1013 dead, 4500 injured and 80000 homeless.

92 industrial concerns, chiefly textile, were in the main destroyed. Rewema machine tool factory was 75% destroyed. Taschner and Joh. Kleinhoefers Sons machine tool factories were both a total loss. The telephone exchange was

/burnt

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R E S T R I C T E D

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burnt down and one accommodation block of the new Husaren Barracks was destroyed by a direct hit as well as 3 vehicle halls with 40 vehicles burnt out.

In addition, in surrounding neighbourhoods, 8 mines, 370 H.E., 16610 incendiary and 1190 phosphorous bombs were dropped.

KREFELD

22/23 AUGUST

E. 1679 - Chief, Orpo.
8a 1151 - Min. of Pub.
Inf. & Prop.

This is part of the raid directed against Leverkusen, Wuppertal and Duesseldorf.

Bombs dropped: 15 mines
120 H.E.
3500 incendiary bombs
2500 phosphorous bombs

Fires: 6 large, 5 medium and 10 smaller fires

Houses: 11 destroyed
300 slightly damaged

Casualties: 7 dead and 30 injured.

6 industrial concerns were damaged.
The Edelstahl works and Kunstseiden A.G. sustained medium damage.

LEIPZIG

3/4 DECEMBER

E. 1679 - Chief, Orpo.
E. 1322 - Min. of Pub.
Inf. & Prop.

This raid was carried out by about 150 aircraft and according to the Police President it was rated as a medium to heavy attack. Fires, including two area fires, were started over the whole town area. The main weight of the attack was on the Town Centre, the East Sector and the Industrial quarter.

Bombs dropped: 18 mines (2 duds)
900 H.E. (40 duds)
80000 incendiary bombs
5400 incendiary bombs with explosive head
17400 phosphorous bombs (120 duds)

Fires: 2099 large, 888 medium and 2094 smaller fires.

Houses: 2392 destroyed
728 severely damaged
1243 medium damage
6875 slightly damaged

Casualties: 1182 dead, 4241 injured, 722 missing and 134000 homeless

The number of industrial concerns destroyed amounted to 166 and of those damaged to 184. The Junkers Aero-engine works were severely damaged and also the oxygen plant of I.G. Farben.

/Opta-Radio

R E S T R I C T E D

R E S T R I C T E D

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Opta-Radio and a number of textile firms were destroyed as were also the Fritz Stoss Machine Factory, one Electricity Works and one Gas Works. The Water supply was interrupted. The Central Station was hit and the Central Post Office destroyed. Telephone and Teleprinter networks of the post office and the police were interrupted. In the town centre the Fair and business houses within the Promenadenring were destroyed by fire. Warehouses at the Madgeburg-Thueringer and Dresdener Goods Stations with large stocks were destroyed.

LEVERKUSEN

22/23 AUGUST

E. 1679 - Chief, Orpo.

From 23.40 hours till 04.00 hours there were penetrations by some 250 - 300 machines to SW. and W. Germany. The main targets were Duesseldorf, Wuppertal, Leverkusen and Krefeld.

Bombs dropped: 1 mine
31 H.E. (5 duds or D.A.)
3000 incendiary bombs
300 phosphorous bombs

Fires: 2 major, 10 medium and 65 smaller fires

Houses: 7 severely damaged
8 medium damage
462 slightly damaged.

Casualties: 4 dead, 5 injured and 1 missing.

I.G. Farben received slight damage in the Acids Works, damage to the cable in the new power station and main steam pipe. The water supply was cut off.

LUDWIGSHAFEN

16/17 APRIL

8a 2211 - LGK XII

E. 2576 - LGK XII,

Summaries

Bombs dropped: 5 mines
145 H.E. (3 D.A. and 14 duds)
7700 incendiary bombs
600 phosphorous bombs
20 phosphorous drums

Houses: 31 destroyed
561 damaged

Casualties: 10 dead, 58 injured and 500 homeless.

Decoy Sites: 185 H.E. and 11800 incendiary bombs were dropped on 5 decoy sites in the whole area.

The Central Station was seriously damaged by fire.

/LUDWIGSHAFEN

R E S T R I C T E D

R E S T R I C T E D

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LUDWIGSHAFEN

9/10 AUGUST

E. 1679 - Chief Orpo.

Large fires and great devastation were caused in the inner town and southern and northern sectors as well as in the harbour area, in tank installations and industrial concerns. The districts of Mundenheim and Rheingoenheim were 2/3 destroyed by H.E. and incendiary bombs and serious fires occurred in Maudach.

Bombs dropped: 32 mines
440 H.E. (17 D.A. and 37 duds)
37972 incendiary bombs
4460 phosphorous bombs

Houses: 279 destroyed
590 severely damaged
1720 slightly damaged

Casualties: 95 dead, 248 injured and 15000 homeless.

Serious damage was caused to the firms of Halberg A.G., Gebr. Giulini, and Dr. F. Raschig. Several warehouses in the Luitpold harbour were partially burnt out and large fires occurred in the tank installations of Rhenania-Ossag and the German-American Petroleum Co. I.G. Farben was not hit. The Water Works were out of action as a result of a power failure. Teleprinter and telephone communications were interrupted.

LUDWIGSHAFEN

5/6 SEPTEMBER

E. 1679 - Chief, Orpo.

E. 624 - Min. of Pub.
Inf. & Prop.

Large area fires were started in the whole of the town centre. Communications as well as water and power supplies broke down. The districts affected were: South, Centre, Hemshof, North, Maudach, Rheingoenheim, Oggersheim and the harbour area. The focal point was the Town Centre. Mainly residential areas were affected.

Bombs dropped: See Ludwigshafen raid for 23/24 September.

Fires: 3 area, 950 large, 600 medium and 300 smaller fires.

Houses: See Ludwigshafen raid for 23/24 September.

Casualties: See Ludwigshafen raid for 23/24 September.

The Central Station and 215 loaded goods trucks were destroyed. The rail bridge over the Rhein was closed for about 6 weeks and 16 ships in the Rhein were severely damaged by fire.

Seriously damaged industrial concerns include: Raschig Chemical Works, where 50% decrease in production, mainly

R E S T R I C T E D

/in

R E S T R I C T E D

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in tar, production, for 2 to 6 months was incurred.

Halberg Machine Works, where several departments were burnt out, thereby causing disruption throughout the whole works for a long time.

Gebr. Giulini was hit by a large number of H.E., 350 phosphorous and incendiary bombs which caused 10 fires. Slight damage was caused to buildings.

I.G. Farben is reported to have escaped with only slight damage.

Telephone communications with Mannheim were interrupted by damage by fire to cables. Widespread damage by fire resulted in the harbour area, destroying a large number of warehouses.

LUDWIGSHAFEN

23/24 SEPTEMBER

E. 1679 - Chief, Orpo.
E. 624 - Min. of Pub.
 Inf. & Prop.
E. 2576 - LHK XII,
 Summaries

This was a heavy attack with H.E. and incendiary bombs on I.G. Farben. About 80% of the town was on fire. The German source most reliable for figures of bombs dropped, casualties and houses damaged combines the two raids of the month as follows:-

Bombs dropped. 65 mines
691 H.E. (11 D.A. and 60 duds)
100000 incendiary bombs
20500 phosphorous bombs

Casualties: 183 dead and 759 injured

Houses: 2405 destroyed
3528 damaged

Fires: 61 large, 175 medium and 2121 smaller fires.

Large fires were started in the Oppau and Etisheim works of I.G. Farben. The Nitrogen plant and associated plants of the Oppau works were put out of action. The Buna factory was slightly damaged, resulting in a temporary loss in production. At Frankenthal considerable areas of the works of Klein Schanzlin and Becker were destroyed by fire. The Machine tool works and technical office were a total loss and damage was also done to the armature works. The South German Sugar Co. and the Bender & Co. Cork Factory in Frankenthal were also total losses.

LUDWIGSHAFEN

17/18 NOVEMBER

E. 1679 - Chief, Orpo.

For details of bombs dropped, casualties and houses damaged see Ludwigshafen raid of 18/19 NOVEMBER.

Damage to industrial targets included:
Damage by 34 mines and H.E. bombs on I.G. Farben, Ludwigshafen works:

/1

R E S T R I C T E D

R E S T R I C T E D

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1 acetylene gasometer and several railway trucks were destroyed. Some lorries and a laboratory building was partially destroyed. The Fire Station, oxygen filling plant, power plant and 1 boiler were also hit.

Damage by 19 mines and H.E. bombs on the Oppau Works:

Main cable from the Rhein-Westfalia Electricity Works was destroyed, 2 transformers and a turbine plant were put out of action. The Saar gas cracking plant and oxygen filling plant, workshops, distillation plant etc. were damaged. Several buildings were also damaged by fire and a number of gasometer and pipe bridge fires occurred. The Works was put out of action.

There was severe damage generally to R.W.E. and water mains in Oppau.

At the shunting station a number of tracks were damaged and 8 trucks were burnt out.

LUDWIGSHAFEN

18/19 NOVEMBER

E. 1679 - Chief, Orpo.

E. 2576 - LGK XII

Summaries

The combined figures for the two raids in the month show:

Bombs dropped: 6 mines
175 H.E. (2 D.A. and 20 duds)
120 incendiary bombs
80 phosphorous bombs

Casualties: 33 dead and 29 injured.

Houses: 137 destroyed
985 damaged

Fires: 2 large, 1 medium and 1 smaller fire
At I.G. Farben works 2 paint factories and the acetylene and lamp black factory were severely damaged. One steam pipe was fractured in 2 places.

LUDWIGSHAFEN

20/21 DECEMBER

E. 1679 - Chief, Orpo.

E. 1322 - Min. of Pub.

Inf. & Prop.

This raid was carried out by part of the 50 - 80 aircraft which went to Mannheim.

Bombs dropped: 1 mine
32 H.E.
2500 incendiary bombs
700 phosphorous bombs

Houses 22 destroyed
6 severely damaged
a large number slightly damaged

Casualties: 10 dead, 22 injured and 200 homeless

The teleprinter service to Wiesbaden was interrupted. Fires were started at the firms of Giuliani and Dr. F. Raschig.

/LUDWIGSHAFEN

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G.11042/HC/10/56/

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LUDWIGSHAFEN

30 DECEMBER

E. 1679 - Chief, Orpo. (USAAF) This is referred to as a light attack
E. 1322 - Min. of Pub. by about 150 aircraft.
Inf. & Prop.

Bombs dropped: 95 H.E.
3500 incendiary bombs
808 oil bombs

Houses: 8 destroyed
41 severely damaged
42 medium damage
125 slightly damaged.

Fires: 7 medium and 46 smaller fires.

Casualties: 28 dead, 8 injured and some 350 homeless.

I.G. Farben, Oppau, was hit by 15 H.E.
and 50 oil bombs. The nitric acid plant
was severely damaged. The works ceased
to operate owing to a fracture in the Saar
gas mains.
The Central and Goods Stations were damaged.

MANNHEIM

16/17 APRIL

8a 2211 - LGK XII
E. 2576 - LGK XII,
Summaries

About 300 aircraft penetrated the Reich
from 2330 hours to 0048 hours. Of these
about 80 - 100 carried out a medium heavy
raid on Mannheim/Ludwigshafen and were
over the target from 0030 to 0123 hours.
(The following details apply to Mannheim
only. For details on Ludwigshafen, see
report of raid on that town.)

Bombs dropped: 15 mines
892 H.E. (14 D.A. and 42 duds)
60400 incendiary bombs
4000 phosphorous bombs
2000 incendiary leaves

Houses: 130 destroyed
2750 damaged

Casualties: 128 dead and 271 injured.

The transformer factory and chemicals
stores of Brown, Boveri & Co. were burnt
down. Large fires also occurred in the
Town Hall, Police Court, Police Barracks
and the Chamber of Commerce.
Daimler-Benz Car Works suffered damage
by fire in 6 workshops but no serious
damage was done.
Neidig Soehne, manufacturing instruments
for the Ministry for War, was hit by 1
H.E., 250 incendiary, 10 phosphorous bombs
and several phosphorous drums, causing a
total loss of buildings, machines and raw
material to the value of 2½ million
Reichsmark. The South German Wire
Industry lost 90% of the buildings from
the effect of a mine in the immediate
neighbourhood and 8 H.E., resulting in
100% loss of production for an indefinite
period.

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The Rhein Rubber and Celluloid Works sustained very severe damage in 10 buildings. Material damage estimated at 485000 Reichsmark and raw materials at 235000 Reichsmark. The Central Station was severely damaged and a troop train was hit. Nine military installations were damaged, one, the Kaiser Wilhelm Barracks, severely.

MANNHEIM

9/10 AUGUST

E. 1679 - Chief, Orpo.
E. 2576 - LGK XII
Summaries

Between 0111 and 0303 hours some 80 - 100 aircraft attacked the Inner Town, Schwetzingen, Lindenhof, Neckarau and Kaiserring.

Bombs dropped: 49 mines
755 H.E. (19 D.A. and 75 duds)
103000 incendiary bombs
14528 phosphorous bombs

Fires: 133 large, 417 medium and 978 smaller fires.

Houses: 761 destroyed
3178 damaged

Casualties: 275 dead, 1225 injured, 24 missing and 20000 homeless.

The machine shops of the Falkenheim Power Station and the Rheinau Power Station as well as the German American Petroleum Co. were severely damaged.

August Weiland Metal Casting Works was complete destroyed. At the Mannheim Aircraft Works one hangar was destroyed and all other buildings were damaged. A.G. Dillinger Iron Works sustained damage causing 100% decrease in production for an indefinite period. At the V.d.M. Cable Works, Suedkabelwerk II, the mechanical workshops, paper stores and joinery were destroyed. The following works were hit and suffered an decrease in production of 100 %:

Rhein Rubber and Celludoid Works
Frankl und Kirchner Electro-engine Works
Hermann Ruf Electrical Works
Anton Pott Iron Works
Siemens Schuckert Works and
Pfpöpfe Chemical Works.

The Lanzwerke and the Asbestwerke were also hit. In all 51 targets of industrial significance were affected.

The western part of the Central Station was severely damaged and many buildings, stores etc., including the battery and transformer station and electricity works were destroyed.

MANNHEIM

5/6 SEPTEMBER

E. 1679 - Chief, Orpo.
E. 624 - Min. of Pub.
Inf. & Prop.

A large formation of aircraft first flew over the town and then attacked in several waves from the southeast. The Town

/Centre

R E S T R I C T E D

G.11042/HC/10/56/

R E S T R I C T E D

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Centre and Lindenhof received the main weight of the attack. Area fires of large size raged in the Town Centre, Harbour and southern and eastern suburbs.

Bombs dropped: See Mannheim raid of 23/24 September.

Houses and Casualties: See Mannheim raid of 23/24 September.

Area fires continued to rage due to the failure of water supplies. Rail traffic between Mannheim and Ludwigshafen was interrupted and road traffic ceased in the whole city. About 4/5 of the town centre was destroyed and among the public buildings affected were the Town Hall, the Castle, several banks, Customs and Telegraph offices, which 2 latter were destroyed. Considerable industrial damage was done and the following are among the firms mainly affected:

Brown-Boveri & Co.
Mannheim Engine Works,
Lanzwerke,
Mannheim Aircraft Works,
Hutchinson Rubber Works,
Rohde und Schwalenburg Rubber Works,
Hommelberg Measuring Instruments and the
Rhein Paper Mills.

Power and water supplies failed at the beginning of the raid and fires were also spread by a rising storm. Telephone communication to and from Mannheim partially broke down.

MANNHEIM
As above

23/24 SEPTEMBER

It is estimated that between 300 and 400 aircraft participated in the raid affecting mainly the north and harbour areas of the town. Numerous fires were started in the Old Town and in the harbour.

Bombs dropped: 147 mines
3409 H.E. (11 D.A. and 101 duds)
328200 incendiary bombs
42573 phosphorous bombs

Houses: 7015 destroyed
11562 damaged

Casualties: 429 dead and 2738 injured.

Water, gas and electricity supplies failed immediately and telephone communications were destroyed. Among the targets hit were:
Weil Chemical Works,
Mannheim Gas Works,
Daimler-Benz,
Southern German Cable Works,
two transformer Works.

/H.E.

R E S T R I C T E D

R E S T R I C T E D

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H.E. and incendiary bombs also caused damage to the Kaiser Wilhelm Barracks, the Garrison Administration and Army Food Office, and the industrial firm of Brown, Boveri & Co. was severely damaged. The goods station, industrial harbour, tramway depot and industrial sidings were severely damaged. In the harbour area the German-American Petroleum Co., a large number of warehouses and wharves and several ships were set on fire.

NOTE: The above figures of bombs dropped, casualties and damage to houses are the combined figures of the two raids for the month and are taken from the most reliable German source for such details.

MANNHEIM

17/18 NOVEMBER

E. 1679 - Chief, Orpo.

For numbers of bombs dropped, casualties and houses damaged see Mannheim raid of 18/19 November.

Fires:

1 large, 1 medium and 3 smaller fires.

Five H.E. and several phosphorous bombs on the Weil Chemical Factory caused a large fire, destroying the naphthaline press, the naphthaline cooling system and the laboratory. H.E. bombs hit 3 factory and 2 office buildings. The damage resulted in 100% temporary loss of production.

The administrative building and transformer house of the Municipal Tramway Co. were destroyed.

The quay wall in the Industrial Harbour was seriously damaged for a length of 80 metres and the west part of the Central Station sustained medium damage.

MANNHEIM

18/19 NOVEMBER

E. 1679 - Chief, Orpo.

E. 2576 - LGK XII,
Summaries

E. 1322 - Min. of Pub.
Inf. & Prop.

A heavy "terror" raid was carried out by about 150 aircraft which attacked in 3 or 4 waves from a southerly direction. The northern sector of the town was mainly affected as well as Freudenheim, Neckarstadt, Waldhof and Sandhofen. The combined figures of bombs dropped, casualties and houses damaged for the two raids during the month show:

Bombs dropped: 89 mines
832 H.E. (14 D.A. and 17 duds)
57700 incendiary bombs
1000 phosphorous bombs

Casualties: 28 dead, 209 injured and about 10000 homeless.

Houses: 333 destroyed and 1887 damaged.

/Fires:

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R E S T R I C T E D

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Fires: 525 large, 98 medium and 285 smaller fires. Area fires occurred in Freudenheim and there were about 25 large fires in the northern sector of the town.

Among the non-industrial targets hit were 4 barracks hit by H.E. bombs. The Central Station was severely damaged and the Telegraph Office and Police H.Q. suffered medium damage. At the Lutzenberg Gas Works a gasometer and gas production rooms were destroyed. The station at Lutzenberg was also severely damaged. A bridge on the Frankfurt - Mannheim line was destroyed and traffic had to be suspended. A large number of warehouses in the northern part of the harbour were hit. All communications with Mannheim were interrupted and severe damage was caused to the administrative building of the Chief Customs Office.

Industrial damage included:

Daimler-Benz: Large fires; severe damage was done to 25 factory buildings causing 90% decrease in production.

South German Wire Industry: Also large fires and many factory installations collapsed, reducing production by 80% for an indefinite period.

Karl Mueller Metal Casting Works: The factory installations were a total loss.

Rudolf Geisel Machine Factory, No. 2

Works: The major part of the production halls were completely destroyed, resulting in 100% decrease for an indefinite period. Bopp and Reuter: The armature factory was severely damaged.

Brown-Boveri & Co.: 6 manufacturing shops and all the workers' camps were destroyed. 70% decrease in production for an indefinite period.

Kali-Chemie: The factory railway sidings, joinery shop and timber stores were destroyed.

Heinrich Lanz A.G.: A direct hit destroyed the repair department. Damage was also done in various workshops and to finished machines.

MANNHEIM

20/21 DECEMBER

E. 1679 - Chief, Orpo.

E. 1322 - Min. of Pub.

Inf. & Prop.

50 - 80 aircraft carried out this raid but the bombs fell partially in open country or on previously bombed sites.

Bombs dropped: 100 H.E.
20000 incendiary bombs
1000 phosphorous bombs

Fires: 18 large, 6 medium and 100 smaller fires.

Houses: 15 destroyed

/Casualties

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Casualties: 1 dead and 18 injured.

At the Rhein Rubber and Celluloid Works 3 halls were destroyed and damage was caused to the Nitag A.G.

MANNHEIM
As above

30 DECEMBER
(USAAF)

Between 1138 hours and 1320 hours a heavy attack developed in which about 600 aircraft took part in 5 waves.

Bombs dropped: 700 H.E.
5000 incendiary bombs
4500 30 kg. incendiary bombs (new type)

Casualties: 40 dead and 200 injured.

Several shops of the Rhein Rubber and Celluloid Works were destroyed. Brown-Boveri & Co. sustained severe damage. The Kaefertal Water Works was severely damaged in the machine room. Three barracks including the Luettich and Police Barracks were damaged. There was a power failure in the harbour area and some streets were closed. The Rhein bridge between Mannheim and Ludwigshafen was hit and the carriage way pierced in 2 places. Also hit were Heinrich Lanz A.G., Daimler-Benz, and Kali-Chemie A.G.

MUENCHEN-GLADBACH

30/31 AUGUST

E. 1679 - Chief, Orpo.
E. 624 - Min. of Pub.
 Inf. & Prop.
E. 1322 - do

This raid was carried out by about 200 - 300 aircraft between 0302 hours and 0145 hours.

Bombs dropped: 62 mines
905 H.E. (171 duds or D.A.)
80 - 90000 incendiary bombs
15000 phosphorous bombs

Fires: 135 major, 2211 medium and 4418 smaller fires

Houses: 1848 destroyed
2390 severely damaged
3124 medium damage
6706 slightly damaged

Casualties: 350 dead, 2185 injured, 9584 with eye injuries and 35872 homeless.

In the town centre of Muenchen-Gladbach 2 area fires of 3 sq. km. and 1 in Rheydt of the same area are reported. Large fires were also started in the suburbs of Odenkirchen and Giesenkirchen. Among buildings and firms hit were: The Lower Rhine Light and Power Station, a cable works, 9 banks, 2 insurance offices, 11 stores (shops) and a number of textile firms and 10 administrative public buildings. There were 83 industrial concerns destroyed and 125 severely damaged.

R E S T R I C T E D

R E S T R I C T E D

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Passenger stations in Rheydt, Odenkirchen, and Muelfort and the goods station in Rheydt were destroyed. The line from Muenchen-Gladbach to Cologne was closed.

In addition, 24 mines, 280 H.E., 9600 incendiary bombs were dropped on Neuss/Grevenbroich, as a result of which 11 died and 33 were injured, 25 houses were destroyed and 1041 were damaged. There were 78 major, 138 medium and 370 smaller fires.

A further quantity of bombs including 12 mines, 350 H.E., 25536 incendiary bombs and 1687 phosphorous bombs were dropped over a wide area to the south and southwest of Muenchen-Gladbach.

MUENSTER

11/12 JUNE

E. 1679 - Chief, Orpo.
E. 2461 - LGK VI
8a 2211 - LGK XII
8a 1151 - Min. of Pub.
 Inf. & Prop.

Between 0048 and 0235 hours strong forces penetrated the Rhein-Westfalian industrial area with the primary target as Duesseldorf. About 50 aircraft raided Muenster from 0200 hours till 0217 hours.

Bombs dropped: 28 mines (1 dud)
364 H.E. (32 duds)
4200 incendiary bombs
6000 phosphorous bombs
1113 oil bombs

Fires: 36 large and over 300 smaller-fires.

Houses: 146 destroyed
637 severely damaged
587 medium damage
3972 slightly damaged

Casualties: 53 dead, 284 injured and 5000 homeless.

Public Buildings: 7 destroyed
33 severely damaged
99 slightly damaged

32 industrial installations were damaged. Goods and locomotive sheds and the railway telegraph workshops were severely damaged. Several industrial firms including Petershafen were destroyed. The Central Station and Regional Railway offices suffered considerable damage. 42 lines were closed to traffic. Fires were started in the harbour area. Severe damage was caused to 2 gasometers and 10 electric cables, 5 gas mains, 5 water mains and 2 telephone cables were destroyed.

MUENSTER

11 NOVEMBER

E. 1322 - Min. of Pub. (USAAF)
 Inf. & Prop.

About 200 - 300 aircraft penetrated Western Germany from the direction of Amsterdam and Rotterdam and attacked the harbour area, the southern sector of the town and the neighbourhood of the Central Station from 1416 hours to 1420 hours.

R E S T R I C T E D

/Bombs

R E S T R I C T E D

- 79 -

Bombs dropped: 150 H.E.
1200 stick incendiary bombs
2000 American incendiary bombs

Fires: 30 major, 80 medium and 80 smaller fires.

Casualties: 10 dead, 40 injured and 12000 homeless.

Houses: 28 destroyed
43 severely damaged
60 medium damage
180 slightly damaged

The following damage is reported:
15 business houses destroyed or damaged,
12 warehouses and stores destroyed or damaged,
1 industrial works damaged,
3 railway installations damaged,
1 harbour installation destroyed,
1 harbour installation damaged,
1 military installation damaged,
The wing of the Central Station was also damaged.

MUNICH

9/10 MARCH

8a - 2341 LGK VII
War Diary,
E. 624 - Min. of Pub,
Inf. & Prop.
E. 1027 - } Police
E. 739 - } President

Penetrations, each with several aircraft, took place in 2 waves between 2244 hours and 0051 hours. About 80 - 100 aircraft reached the target area, of which 30 - 40 penetrated to the Town Centre. The raiders were flying at a height of between 2000 and 6100 metres in their approach and over the target came down to 1000 to 4000 metres. Speed: 95 to 100 metres per second. Types: Lancaster Boeing, Liberator, Fortress, Halifax and Stirling. Damage was caused mainly in the town centre and Schwabing. The raid lasted from 2349 hours to 0110 hours and the targets were evidently the railway installations and industrial areas.

Bombs dropped: 76 mines
124 H.E. (about 75% 500 kg) (25 duds or D.A.)
75 oil bombs
786 phosphorous bombs (112 duds)
some 70000 incendiary bombs (10000 duds)
117 phosphorous drums (22½ kg)
123 Flares and photo flashes (21 duds)
23 marker bombs
a large number of leaflets and ration cards.

In addition, 5 mines, 32 H.E., 96 phosphorous bombs and 1358 incendiary bombs were dropped in the neighbourhood of Munich and the rest of the Luftgan area.

Casualties: 205 dead, 475 injured, 18 missing and 9264 homeless. In addition outside Munich there were 4 dead, 18 injured and 112 homeless.

Fires: 163 large, 179 medium and 244 smaller fires.

/Buildings

R E S T R I C T E D

- 80 -

Buildings: 291 destroyed
660 severely damaged
22134 medium to slight damage

Industrial: Atlas Werke: Assembly hall, stores hall, garage and accommodation huts burnt down.
South German Aluminium & Iron Foundry: Completely destroyed by mine.
B.M.W.: Aero-engine assembly shop out of action for 6 weeks.
Suedbremse: Pump assembly, brakes and 2 cm. shell casings departments out of action for 1 or 2 months.
Municipal Gas Works: Severely damaged by H.E. and incendiary bombs. The small gasometer destroyed. Supply interrupted 2 - 3 weeks for private purposes and for 3 months for industry.
Nymphenburg Porcelain Factory: Technical porcelain department out of action for an indefinite period.
Waggonfabrik Rathgeber: Coach building and aircraft parts departments out of action for some weeks. One wood store valued at $\frac{3}{4}$ of a million Reichsmark burnt down, 28 completed waggons and 2 smaller halls destroyed. 40 - 60% decrease in production for the month of March.

Transport: Several buildings of the Central Station Railway Works were burnt out and collapsed. 16 electric engines, 7 steam and 3 diesels destroyed. Oil gas installations at the Central Station were hit. The Power Station at the Central Station and various buildings collapsed. Traffic was interrupted for 2 to 4 days. Some buildings of the Municipal Tramways were completely burnt out destroying 40 locomotive coaches, 71 trailer coaches, 12 buses and 8 trailers. The depot at the Dachauerstrasse was burnt out.

Military: A total of 194 military buildings and installations were hit.
Air Force: 6 Flak sites and battle H.Q. were attacked. A number of other buildings were destroyed or damaged.
Army: About a dozen buildings including 1 barracks were destroyed or damaged.

Public Buildings: The Main Customs Office and the Police H.Q. suffered slight damage by fire.

Post: 3 local and 3 long distance cables were destroyed.
At Neubaubing the Dornier Works suffered severe damage.

Defences - Flak: The following rounds of ammunition were expended:

/2314

R E S T R I C T E D

R E S T R I C T E D

- 81 -

2314	-	10.5 cm.
8328	-	8.8 cm.
3592	-	2 cm.

Night Fighter: 4 ME.110, 2 Ju.88, 1 Do.217 were airborne from 2230 hours to 0214 hours.

MUNICH

6/7 SEPTEMBER

E. 1679 - Chief, Orpo.
8a 2341 - LGK VII
War Diary
E. 739 - Pol. Pres.

The raid was made by some 300 aircraft in 2 waves but due to heavy fighter and flak defences only about 50 - 70 aircraft could reach the Town Centre. The whole town area was hit, the east and south particularly severely.

Bombs dropped: 73 mines (1 dud)
269 H.E. (15 D.A. and 21 duds)
302 oil bombs
6000 phosphorous bombs (480 duds)
180000 incendiary bombs (3-5000 duds)
127 flares
24 marker bombs

Buildings: Damage was caused to 2499 buildings by H.E., of which 344 were destroyed. 1334 buildings were damaged by fire, of which 536 were destroyed.

Casualties: 204 dead, 778 injured and 17597 homeless.

Damage was caused to 2 bridges, electricity, gas and water systems as well as overhead cables and tracks of the tramways. A number of railway lines were cut and traffic control, tracks and signal boxes, mainly in the Thalkirchen and East Station areas, were destroyed. Damage also to post, telephone and telegraph installations, some of them destroyed. 2 military buildings were destroyed and several more damaged. 5 searchlight sites were hit. Among the damaged military buildings were the General-Kommando VII LGK VII and an Air Force Signals Barracks.

Of the 59 firms engaged on war production which were damaged, two, the Sueddeutsche Waggon und Foerderanlagen and Robel & Co. were a total loss. The Wernerwerk of Siemens & Halske and the Agfa Camera Works were among those damaged. A large number of other firms were either a total loss or suffered severe damage from H.E. or incendiary bombs.

The Steam Power Station in the Isartalstrasse of the Municipal Electricity Works was very severely damaged. Of the 6 turbines only one with an hourly output of 20000 kw could be brought into operation again in the next few days.

/One

R E S T R I C T E D

G.11042/HC/10/56/

One other with an hourly output of 15000 kw, was in the process of overhaul and was in fact less damaged and would need re-assembling. The Main Stores building south of the Works was completely destroyed by H.E. and incendiary bombs. The adjacent Cable Stores with cable drums in it was also practically burnt out.

In the country districts of Munich, Landsberg, Starnberg, Weilheim, Wolfratshausen, Memmingen, Kaufbeuren and Schwabmuenchen 18 mines, 66 H.E., 1875 phosphorous, 7150 incendiary bombs and 31 duds were dropped. These caused the destruction of 40 properties, partial destruction of 48 and slight damage to 100 other properties. There were 3 forest fires in the Munich district, one enveloping about 100 acres. Casualties amounted to 5 killed, 12 injured and some 120 rendered homeless.

MUNICH
8a 2341 - LGK VII
War Diary
E. 2459 - Min. of Pub.
Inf. & Prop.

2/3 OCTOBER

Several hundred aircraft were engaged in the raid from 2330 hours until 0022 hours. The main force flew at a height of 4000 - 6000 metres with a few at 2500 to 7700 metres. Speed 90 - 140 metres/Sec. Recognised types: Stirling, Halifax and Lancaster. The raid caused great damage particularly in the residential quarters in the south, southeastern, eastern and inner districts of the town.

Bombs dropped: 52 mines
276 H.E. (mainly 500 kg)
7000 phosphorous bombs
160000 incendiary bombs
204 flares and marker bombs

Houses: 465 destroyed
1500 severely damaged
2500 medium damage
4000 slightly damaged

Casualties: 204 dead, 696 injured and 10000 homeless.

The National Theatre was destroyed by fire and a large fire also damaged the old Heavy Cavalry Barracks. The East Station with all storage halls and the Isartal Station were severely damaged by fire. H.E. bombs caused damage to the municipal electricity works No.1 at the Isartal station. There were large fires mainly at Untersendling, Giesing, Au and in the neighbourhood of the East Station. The Luftgau H.Q. was also set on fire.

NUREMBERG
8a 2211 - LGK XII
E. 2576 - LGK XII
Summaries

25/26 FEBRUARY

The attack was aimed mainly at the North and West of the town.

/Bombs

R E S T R I C T E D

- 83 -

Bombs dropped: 12 mines
227 H.E. (18 D.A. and 16 duds)
29400 incendiary bombs
4100 phosphorous bombs/drums
100 oil bombs
6 marker bombs

Fires: 10 large, 20 medium and 20 smaller fires.

Buildings: 112 destroyed and 7293 damaged.

Casualties: 44 dead and 98 injured.

Only slight damage was caused to industrial installations and medium damage to house property. Three power cables were damaged.

A new workshop of the Mueller Ballbearing factory was destroyed by H.E., resulting in 100% decrease in production till 4 March. Two workshops of the Ehrmann Machine Works were destroyed by a nearby mine which resulted in 100% decrease in production until further notice.

Of the above bombs the following breakdown is given:

On military installations, including airfields and flak emplacements:
26 H.E. (including mines)
940 incendiary bombs (including phosphorous and oil types)

On industrial works:
10 H.E.
700 incendiary bombs

On decoys:
22 H.E.
6640 incendiary bombs

On Autobahn:
1 H.E.
200 incendiary bombs

On smaller business
6 H.E.
1630 incendiary bombs

On residential areas:
131 H.E.
19250 incendiary bombs

On open country:
43 H.E.
4300 incendiary bombs

NUREMBERG/FUERTH

8/9 MARCH

8a 2211 - LGK XII
E. 624 - Min. of Pub.
Inf. & Prop.
E. 2576 - LGK XII
Summaries
E. 1320 - Unknown

The raid lasted from 2305 hours until 0015 hours and was directed mainly on the southern part of the Town and carried out by approximately 100 aircraft (4 engined).

/Bombs dropped:

R E S T R I C T E D

R E S T R I C T E D

- 84 -

Bombs dropped: 20 mines
643 H.E. (27 duds and 11 D.A.)
65407 incendiary bombs
5501 phosphorous bombs/drums
40 oil bombs
34 marker bombs

Fires: 141 large, 339 medium and 654 smaller fires.

Houses: 717 destroyed (200 by fire)
13788 damaged

Casualties: 343 dead, 759 injured and 11000 homeless.

The transformer works of Siemens-Schuckert was very severely damaged. The Municipal Gas Works was put out of action for about 8 days. At the Aluminum Works 15 buildings were destroyed, 6 severely and 15 slightly damaged. The pattern building was burnt out. Until 15 March 100% decrease in production and after that 50% for some time. Severe damage was also caused to the tube manufacture of the Vereinigte Deutsche Metallwerke and other Siemens-Schuckert works suffered considerable damage mainly by fire. The Franken Power Station was also damaged.

Considerable disruption of traffic was caused by damage to electrified lines and severe damage by fire to various railway stations and installations. The Marien tunnel was pierced by H.E. The hole had a diameter of 14 metres. Nos. I and II hangars at the Airfield were rendered unusable by H.E. and incendiary bombs. Seven aircraft of the A/B School were destroyed and 5 damaged. Flak and searchlight sites were attacked by H.E., incendiary bombs and machine gun fire causing some damage and casualties. The Reserve Food Stores of the Army Command in Nuremberg was burnt out. The Artillery Barracks were severely damaged and the SS Barracks slightly by fire. Broadcasting House was damaged and a 10000 volt cable was destroyed. The tram service Luedersheim - Maltingen - Wuerzburg was brought to a standstill.

The following breakdown of bombs dropped is given:

<u>Military including</u>	157 H.E.
<u>airfields & Flak sites:</u>	5207 incendiary
<u>Industrial:</u>	77 H.E.
	16211 incendiary
<u>Decoys:</u>	32 H.E.
	13315 incendiary

/Railways:

R E S T R I C T E D

R E S T R I C T E D

- 85 -

Railways: 41 H.E.
4403 incendiary

Smaller
businesses: 50 H.E.
3810 incendiary

Residential: 239 H.E.
23989 incendiary

Open country: 105 H.E.
4047 incendiary

NUREMBERG/FUERTH

10/11 AUGUST

E. 1679 - Chief, Orpo.
8a 1151 - Min. of Pub.
Inf. & Prop.
E. 1320 - Unknown

It is estimated that between 180 and 200 aircraft attacked from 0056 hours until 0223 hours. The focal point was the northern sector of the town.

Bombs dropped: See Nuremberg raid of 27/28 August.

Fires: 1 area, 552 major, 1078 medium and 2260 smaller.

Houses: 1732 destroyed
1156 severely damaged
2386 medium damage
4679 slightly damaged

Casualties: 585 dead, 2854 injured and 2800 homeless.

The building of the LGK in the Schaf-Hofstrasse was severely damaged by fire. At the airfield the administrative buildings were destroyed and the airfield itself was hit by H.E. Bombs. The Police H.Q. also suffered considerable damage by fire. Severe damage was caused to the Sedan Barracks in Fuerth. The Transformer Works were also damaged by H.E. bombs. 18 water and 34 gas mains were affected. Fires occurred in the firms of Neumeyer and Telephone Cable and Wire Works (TDK) and at the Viktoria Works of Chillingworth damage was sustained resulting in 100% loss of production for some weeks. At the Faun Works damage caused 100% production loss for 5 months and at Dyamit A.G. for 3 months. At the firm of Schickedanz 90% of the Army stocks were destroyed and Daimler-Benz suffered a production loss of 80% for an indefinite period. The following firms also suffered a 100% production loss:
Schieder Metal Works; Werder Metal Works; Steinemesse and Stollberg Metal Works; Hintermeier Metal Works; Mammut Machine Tool Works; Diehl Metal Works; Muschi & Co.; Gemeinschaftswerk.

56 grain barns were burnt out.
Damage to railway installations included
The western portion of the Central Station

/and

R E S T R I C T E D

R E S T R I C T E D

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and buildings at the East Station were severely damaged. Goods sheds at Doos Station were destroyed and 45000 cwt. of coal at North Station were burnt. In a number of country districts further 26 mines, 205 H.E., 11930 incendiary and 1259 phosphorous bombs were dropped which caused 4 large, 53 medium and 61 smaller fires. 71 houses were destroyed, 32 severely, 37 suffered medium and 416 slight damage. Casualties were 19 dead and 14 injured.

NUREMBERG/FUERTH 27/28 AUGUST

E. 1679 - Chief, Orpo.

E. 2576 - LGK XII Summaries

E. 1320 - Unknown

The raid was undertaken by an estimated number of 300 aircraft in 6 waves, attacking the eastern sector of the town and the southern part of the Old Town.

Bombs dropped: The German document giving the most reliable figures combines the bombs dropped during the two raids in this month as follows:

110 mines

2616 H.E. (33 D.A. and 75 duds)

173980 incendiary bombs

30472 phosphorous bombs

Fires: Large fires were started in the southern part of the Old Town and at the shunting station and Dutzendteich station. 105 major, 113 medium and 517 smaller fires.

Houses: 468 destroyed
410 severely damaged
829 medium damage
1754 slightly damaged

Casualties: 73 dead, 203 injured and 5556 homeless.

A branch of the Dresdener Bank was destroyed and an Air Force hospital, a PW camp and some hotels were badly damaged. At Neumeyer Cable and Metal Works the large store in the ammunition preparation department, the shell casings finishing shop, the development laboratory, the technical office, and the cable splicing department were completely destroyed. The administrative building suffered medium damage.

The lorry assembly shop at M.A.N. was destroyed. The several storeyed laboratory of the Siemens Schuckert Works was destroyed and other buildings were severely damaged. The Christof Stahl Mineral Oil Store was completely destroyed.

Damage to railway installations etc. included the holing and blocking of the Celtis Tunnel and a direct hit on a platform at the Central Station. The

/Administrative

R E S T R I C T E D

administrative buildings of the Regional Railway Office and buildings of the Central Station were damaged and the line to Amberg was closed. The telegraph and various other buildings of the post office sustained medium damage. In addition to Nuremberg itself the surrounding districts were also visited. There 39 mines, 212 H.E., 9330 incendiary and 1890 phosphorous bombs were dropped causing in the main only superficial damage and casualties amounted to 20 dead and 77 injured.

OBERHAUSEN
E. 2601 - LGK VI

26/27 MARCH

The raid took place between 2120 hours and 2230 hours but there is no estimate of the number of aircraft participating.

Bombs dropped: 13 mines (2 duds)
34 H.E. (2 duds)
6000 incendiary bombs
189 phosphorous bombs

Fires: 2 major, 13 medium and 154 smaller fires.

Houses: 13 destroyed
61 severely damaged
189 medium damage
1478 slightly damaged

Casualties: 19 dead, 23 injured

August Thyssen Blast Furnaces sustained only slight damage from blast. The sulphuric acid factory of the Rombach Chemical Works was damaged causing 50% loss of production for 1 day only. The power plant of the nitrogen works of Ruhrchemie was damaged and through a power failure was out of action for 1 day. H.E. bombs destroyed the water gas gasometer (20000 cubic metres) at the Ruhrchemie Fuel Plant and caused considerable damage (up to 1½ metres in diameter) to pipe lines. 100% loss of production for 4 weeks and then 50% of normal production was estimated. Fires at the Gute Hoffnug Foundry were put out by the automatic operation of the Sprinkler apparatus.

OBERHAUSEN/MUELHEIM
E. 1679 - Chief, Orpo.
8a 2211 - LGK XII
E. 2601 - LGK VI

26/27 APRIL

Penetrations into the Rhein-Westfalian industrial area took place by about 60 aircraft. The raid lasted from 0210 hours until 0330 hours.

Bombs dropped: 38 mines
170 H.E. (12 duds)
26700 incendiary bombs
2052 phosphorous bombs

Fires: 64 major, 344 medium and 1132 smaller fires.

/Houses

R E S T R I C T E D

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Houses: 195 destroyed
336 severely damaged
713 medium damage
5072 slightly damaged

Casualties: 244 dead and 552 injured.

The Police H.Q. in Oberhausen was hit as were also 3 industrial works and 8 railway installations. The Central Station was put out of action and one line was closed. Water mains were fractured in many places. In Muelheim 5 industrial works and 2 railway installations were hit and 2 lines were closed. The extent of the damage or the industrial works concerned is not recorded in the source material available.

OBERHAUSEN/MUELHEIM 14/15 JUNE

E. 1679 - Chief, Orpo.

E. 2461 - LGK VI

8a 2211 - LGK XII

A medium attack was carried out by approximately 100 aircraft from 0118 hours until 0200 hours.

Bombs dropped: 29 mines
250 H.E.
56000 incendiary bombs
5000 phosphorous bombs

Fires: 36 major, 202 medium and 764 smaller fires.

Houses: 230 destroyed
500 severely damaged
1230 medium damage
3680 slightly damaged

About 20 industrial concerns were either destroyed or damaged. Considerable damage was caused to railway installations, buildings, rolling stock, signals boxes and permanent way and the tramway system was at a standstill. Both the locks in Oberhausen on the Rheine-Herne Canal were hit and traffic was diverted through the Wesel-Datteln Canal for 2 or 3 days. The Town Hall, Police H.Q. were among the buildings severely damaged.

Casualties: 30 dead and 280 injured.

At the Rombach Chemical Works damage to the sulphuric acid plant caused 100% loss of production for 10 days. 3 sulphuric acid tanks of Kali-Chemie were emptied, causing 100% loss of production for 3 days. 30 H.E. and 800 incendiary and phosphorous bombs hit the Gute Hoffnug Foundry. As a result of the damage to the power supply the blast furnaces were put out of action. Babcock Boiler Works suffered severe damage to buildings and plant. In Muelheim the Deutsche Roehren and the Deutsche Eisen Works as well as A.E.G. were hit. The administrative building of Siemens-Schuckert was destroyed.

/OBERHAUSEN

R E S T R I C T E D

R E S T R I C T E D

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OBERHAUSEN/MUELHEIM 22/23 JUNE

E. 1679 - Chief, Orpo. About 200 aircraft took part in this raid
E. 2461 - LGK VI which was carried out from a height of
8a 2211 - LGK XII 5400 - 6000 metres from 0025 hours until
8a 1151 - Min. of Pub. 0230 hours.
Inf. & Prop.

Bombs dropped: 99 mines
772 H.E.
131000 incendiary bombs
22000 phosphorous bombs

Fires: 204 major, 949 medium and 2970 smaller
fires. The difficulty in fire fighting
was increased by a complete break-down
in the water supply. Water for this
purpose had to be pumped from the River
Ruhr.

Houses: 900 destroyed
2000 severely damaged
2550 medium damage
7800 slightly damaged

Casualties: 442 dead, 528 injured, 45 missing and
50000 homeless.

Considerable damage by H.E. bombs was
caused to the centres of Oberhausen and
Muelheim. Industrial concerns damaged
include Ruhr-Chemie; Grillo-Werke (zinc
rolling mills); Gute Hoffnung Foundry
and the Deutsche Iron Works, where the
coking plant was put out of action for
3 weeks.

Oberhausen Central Station was hit by
H.E. and traffic was diverted. Trams
could not run and numerous streets were
closed.

The Reichsbank, Treasury, Town Hall, Main
Post Office, Police Court were severely
damaged. Gas and electricity supplies
were out off and telephone and teleprinter
connections in Muelheim and Oberhausen
interrupted.

In Muelheim the Reichsbank, Treasury
Customs Office, Town Hall and Infantry
Barracks were damaged. Siemens Schuckert
suffered severe damage by fire, stopping
production for some days. Several local
stations were severely damaged and some
lines temporarily closed. The Thyssen
Foundry also suffered severe damage as
did the Roehrenwerke. The Muelheim-Ruhr
station was burnt out and the adjacent
Friedrich-Wilhelm Foundry was also
seriously affected.

OSCHERSLEBEN 28 JULY

E. 1679 - Chief, Orpo. (USAAF) The alarm lasted from 1100 hours until
8a 1151 - Min. of Pub. 1230 hours.
Inf. & Prop.

/Bombs dropped:

R E S T R I C T E D

G.11042/HC/10/56/

R E S T R I C T E D

- 90 -

Bombs dropped: 60 H.E. (4 duds)
1000 incendiary bombs

Casualties: 44 dead and 192 injured.

The Ago Aircraft Factory was hit by 20 to 30 bombs, mainly in the assembly halls and stores. 3 shops, several huts and special buildings were destroyed. The Initial Air Technical School was also hit.

OSNABRUECK

22 DECEMBER

E. 1679 - Chief, Orpo. (USAAF)
E. 2614 - Burgomaster
as local
Chief A.R.P.
Warden.

At 1254 strong enemy penetrations West of Amsterdam were reported. As the aircraft were on an easterly course the alert was given at 1302 hours for Canabrueck. At 1315 hours some 250 aircraft took a S.E. course while 80 - 100 continued on an easterly course in the direction of Osnabrueck. They flew at 7 - 8000 metres and the clouds reached to over 5000 metres. German fighter formations took off before the enemy reached Osnabrueck which broke up the formations and caused some to change course. At 1358 about 30 - 35 aircraft reached the north of the town. This was the first attack on Osnabrueck since 6 November 1942.

Bombs dropped: 121 H.E. (250 kg) (1 dud)
some 200 incendiary bombs
96 oil bombs (50 and 113 kg)

Houses: 9 destroyed
5 severely damaged
18 medium damage
69 slightly damaged.

Casualties: 8 dead, 10 injured and 60 homeless.

A modern saw mill was destroyed and the railway line to Rheine was damaged at several points. Numerous bombs dropped on a firing range without damaging the installations. It is presumed that the target was intended to be the town centre and the Teutowerk at the north eastern edge of the town.

FEENEMUENDE

17/18 AUGUST

8a 1151 - Min. of Pub.
Inf. & Prop.
E. 1679 - Chief, Orpo.
Transl. of German doc. -
ADIK Report 252A/45.

The alarm lasted from 2311 hours until 0340 hours over a wide area and there were 300 penetrations, of which 10 paid a visit to Berlin.

Bombs dropped: 1000 H.E. (60 duds cr D.A.)
an untold number of incendiary and phosphorous bombs and drums.

Casualties: 6 - 800 dead, 300 injured and about 9000 were rendered homeless.

Several hutted camps and settlements in Karlshagen were destroyed and about 20

/houses

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houses destroyed and nearly all others damaged in Trassenheide. Karlshagen is reported as being 90% and Trassenheide as 30% destroyed. The road to Peenemuende was severely damaged. One industrial complex in Karlshagen was damaged and the development works in Peenemuende 80% destroyed. The A.4 assembly plant and the power station and oxygen plant as well as the administrative building and drawing office of the East Plant were destroyed. Light and water supplies, telephone and works railway were put out of action. The greater loss was not so much in the destruction of buildings as in the loss of material and accommodation for the staff.

RECKLINGHAUSEN 12 AUGUST
E. 1679 - Chief, Orpo. (USAAF)

At about 0840 hours an estimated number of 250 - 300 aircraft penetrated the Rhein-Westfalian industrial areas and attacked various towns including Recklinghausen.

Bombs dropped: 85 H.E. (6 duds or D.A.)
206 oil bombs

Houses: 8 destroyed
11 severely damaged
74 slightly damaged

Casualties: 26 dead, 29 injured and 2 buried.

The Central Station was hit and the line to Haltern was closed. The Autobahn was also severely damaged. Several fires occurred at the Gelsenkirchen-Benzin A.G. in the Gas laboratory and petrol extracting plant. Hits were also scored on the Gelsenkirchener-Ruhrigas A.G.

RECKLINGHAUSEN
E. 1679 - Chief, Orpo.
E. 624 - Min. of Pub.
Inf. & Prop.

29/30 SEPTEMBER

This was part of the raid on Bochum in which about 200 aircraft attacked between 2120 hours and 2340 hours. The following details concern Gelsenkirchen, Buer, Herten, Westerholt, Marl and Berthlich.

Bombs dropped: 1 mine
286 H.E.
6800 incendiary bombs
1760 phosphorous bombs

Houses: 10 destroyed
33 severely damaged
161 medium damage
1005 slightly damaged

Casualties: 7 dead, 38 injured, 23 buried and 3 missing.

/Fires:

R E S T R I C T E D

R E S T R I C T E D

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Fires: 8 large, 50 medium and 250 smaller fires.

In Gelsenkirchen the Deutsche Iron Works, some pits and a coking plant were damaged. The Rhein-Westfalian Electricity Works was damaged by H.E. and a 100000 volt cable was destroyed.

REGENSBURG

17 AUGUST

E. 1679 - Chief, Orpo. (USAAF)

8a 1151 Min. of Pub.

Inf. & Prop.

E. 2606 - Min. of Armaments
& War Production.

From about 1128 hours about 120 American aircraft attacked the town and the Messerschmitt Aircraft Works. Damage was mainly inflicted on the Messerschmitt Works and that on the town was "scarcely worth mentioning".

Bombs dropped: 1200 H.E. (21 duds or D.A.)
100 incendiary bombs
500 phosphorous bombs and/or drums
4 oil bombs

Houses: 4 plus 4 hutments destroyed
4 plus 6 hutments severely damaged
7 medium damage
19 slightly damaged

Casualties: 247 dead and 461 injured.

Several flak sites (works defences) were destroyed. A direct hit was scored on the chief water main and telephone lines were destroyed.

In the factory area of Messerschmitt factory 1080 H.E. bombs were dropped, destroying 80% of the factory and causing 100% loss of production for some time. Several assembly halls and the administrative building were destroyed, equalling a floor space of 91532 sq. metres out of a total of 138920 sq. metres.

REMSCHIED

30/31 JULY

E. 1679 - Chief, Orpo.

8a 1151 - Min. of Pub.

Inf. & Prop.

The raid was carried out by about 300 aircraft from 0130 until 0153 hours. The Town Centre was the area most affected.

Bombs dropped: 125 mines
457 H.E.
78000 incendiary bombs
6000 phosphorous bombs
100 oil bombs

Fires: 160 major, 430 medium and some 800 smaller fires.

Houses: 3115 destroyed
799 severely damaged
469 medium damage
1583 slightly damaged

Casualties: 1038 dead, 6700 injured and 45000 homeless.

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R E S T R I C T E D

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An area fire covering an area of about 12 sq. km. developed and about 100 industrial targets were hit. Incendiary bombs caused severe damage to the Bergische Steel Industry, Mannesmann, Alexander Works and Edelstahl Works. The Post Office and the Central Station as well as the Town Hall were destroyed. 6 banks, 2 insurance offices, 3 stores (shops) and a market were destroyed, or severely damaged. Gas, water and electricity supplies failed.

ROSTOCK

20/21 APRIL

8a 2211 - LGK XII

E. 2606 - Ministry of
Armaments &
War Prod.

Between 2310 hours and 0333 hours about 100 aircraft are reported to have penetrated with focal point Rostock.

Bombs dropped: 20 H.E.
1500 incendiary bombs
a number of phosphorous bombs and drums
and oil bombs.

Houses: 87 destroyed
54 damaged

Casualties: 5 dead, 39 injured, 20 buried and 500
homeless.

Only slight industrial damage is reported. At the Neptum Yards 40 - 50 phosphorous bombs, drums and oil bombs fell on the Works and surroundings. 10 - 12 H.E. bombs (500 lb) fell in the water. During this raid 18600 sq. metres (=9% of the total area) of factory buildings were destroyed.

SCHWEINFURTH

17 AUGUST

E. 1679 - Chief, Orpo. (USAAF)

8a 1151 - Min. of Pub.
Inf. & Prop.

E. 2576 - LGK XII Summaries

E. 2606 - Min. of Arm. &
War Prod.

Approximately 270 aircraft took part in this raid from 1600 hours until 1700 hours. The main weight of the attack fell on the Central Station, Old Town and the industrial and barracks areas.

Bombs dropped: 1 mine
1317 H.E. (59 duds)
27 phosphorous bombs
1800 oil bombs

Houses: 160 destroyed and 1010 damaged.

Fires: 19 major and 150 medium to small fires.

Casualties: 249 dead, 639 injured.

The firms of Kugelfischer, Georg Schaefer & Co., Fichtl & Sachs Ballbearing works and the Rothenburger Metal Works were severely damaged. No. 2 Works of the Vereinigte Kugellager Works was partially damaged.

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R E S T R I C T E D

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The Central Station was destroyed and a few trains burnt out. The Goods Yards were also hit, damaging buildings, tracks and rolling stock. Damage was also caused to 2 barracks. The Municipal Gas Works were destroyed and Post Office buildings badly damaged. On the firm of Kugelfischer, Georg Schaefer & Co. 33500 kg of H.E. and 3900 kg. of incendiary bombs were dropped, destroying 19000 sq. metres = 8% of the total area of the factory.

SCHWEINFURTH

14 OCTOBER

E. 2576 - LGK XII,
Summaries
E. 2606 - Min. of Arm.
& War Prod.

(USAAF)

There are no German documents available which give details of where the bombs fell but it is evident from the following that the ball-bearing works were mainly affected. About 250 - 300 aircraft took part.

Bombs dropped: A number of mines
1200 H.E.
1500 oil bombs.

Houses: 107 destroyed and 280 damaged.

Casualties: 283 dead and 359 injured.

Of the bombs dropped
3600 kg of mines
35500 kg of H.E. and
2400 kg of incendiary bombs
fell on the factory area of the Kugellagerwerk Kugelfischer, Georg Schaefer & Co. They destroyed 19400 sq. metres of the factory area, equal to 8.5% of the total area. In addition 45 1000 lb (2 duds) H.E. and 43 26lb (2 duds) incendiary bombs fell on the factory area of the Vereinigten Kugellager-fabrik, Works I and II.

STETTIN

20/21 APRIL

E. 2606 - Min. of Arm.
& War Prod.

No other source document is available. The only details given are:
60 - 70 aircraft attacked.

Bombs dropped: 21 mines
420 H.E.
98000 incendiary bombs
5000 oil bombs

These caused damage to 3780 buildings, 51 industrial concerns and 6 transport installations. The total tonnage was reckoned to be 276 tons.

STRASSBURG

6 SEPTEMBER

E. 1679 - Chief, Orpo.
8a 2341 - LGK VII War
Diary
E. 624 - Min. of Pub.
Inf. & Prop.

(USAAF)

This raid which was undertaken by about 100 aircraft started at 1124 hours.

Bombs dropped: (180 H.E. (12 duds and 12 D.A.)
(1 phosphorous drum
(250 oil bombs (45 duds)

/Fires:

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R E S T R I C T E D

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Fires: 7 large, 3 medium and 84 smaller fires.
Houses: 66 destroyed
60 severely damaged
138 medium damage
631 slightly damaged
200 damage to glass only
Casualties: 173 dead, 212 injured and 1800 homeless.

Severe damage was sustained by 2 and medium by 1 factory. Medium damage was caused to 4 railway installations and 1 stores was destroyed. The Army transport park was severely damaged by fire.

For general comments see Stuttgart raid of the same date.

STUTTGART
8a 2341 - LGK VII,
War Diary

11/12 MARCH

A total of some 90 - 100 aircraft entered the Luftgau by 28 routes, some 60 of them reaching the target area and attacking in quick successive waves. Their height ranged from 1800 - 6000 metres, one as low as 800 metres. Their speed was about 90 - 100 metres per second. Recognised types were Lancaster, Stirling and Halifax. The raid lasted from 2241 hours until 0007 hours and the majority of the raiders attacked from the southwest. The districts most affected were Sindelfingen, Vaihingen, and Moehringen and the Town Centre and industrial quarter were spared except for a few fires.

Bombs dropped: 25 mines (12 duds)
433 H.E. (112 duds)
40000 incendiary bombs including 500
with explosive head (1000 duds)
5000 phosphorous bombs
200 phosphorous drums
1500 flares and marker bombs
In addition in the surrounding districts
and remainder of the Luftgau:
4 mines
65 H.E.
8800 incendiary bombs
100 phosphorous bombs
38 phosphorous drums

Houses: 209 destroyed
457 severely damaged
1045 slightly damaged

Casualties: 105 dead, 240 injured, 4 missing and
1000 homeless.

Emil Niethammer, electrotechnical factory, suffered considerable damage. Ruppmann Fireproof Clay Works was put out of action for an indefinite period. At the electro-technical works of Bauknecht the joiners shop, boilerhouse, garage and

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/office

office buildings were destroyed. The Karl Schmidt Aluminium Smelting Works were out of action through lack of power. At the Robert Bosch works 30 incendiary bombs started fires which were all quenched and there was no loss in production.

The station at Vaihingen was destroyed and goods sheds at the West Station were partially burnt down.

The Municipal Electricity Works at Kaltental were severely damaged.

The SS Barracks were severely damaged and the Engineer Officers' Academy in the Kurmaeker Barracks was set on fire.

Attacks were made on 2 decoy sites.

On one about 60 incendiary bombs were dropped and on the other 1 mine, 16 H.E. (10 duds) and 1000 incendiary bombs.

In defence 4 night fighters were put up, one each Do. 217, Ju. 88 and 2 Me. 110 and the following rounds of flak ammunition were expended:

6356	-	8.8 cm.
14822	-	1 cm.
229	-	3.7 cm.
1113	-	4 cm.
300	-	0.79 cm.

STUTTGART

8a 2341 - LGK VII,
War Diary
E. 624 - Min. of Pub.
Inf. & Prop.

14/15 APRIL

Between 0004 hours and 0131 hours about 100 - 120 aircraft penetrated to the Stuttgart area, flying at 1200 - 5000 metres and at 350 - 400 k.p.h. Recognised types were Stirling, Lancaster, Liberator and Wellington. The weight of the attack fell on Stuttgart and was delivered by some 70 - 80 machines. Bombs were dropped principally in the north and east of the town along the Neckar. The main target was evidently to have been Daimler-Benz but as the screen put up prevented aimed bombing, the residential district of Cannstadt with scattered effect on the industrial installations there were hit. "The enemy in this raid corrected the error made in the raid of 11 March of running in to the attack from the northwest over Zuffenhausen-Neckartal."

Bombs dropped: No records are available of bombs dropped on Stuttgart itself but in the surrounding neighbourhood the following figures are given:
171 H.E. (2 duds)
11906 incendiary bombs
582 phosphorous bombs
25 phosphorous drums (1 dud)
6 flares (1 dud)

/Houses:

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Houses: 612 destroyed
1176 severely damaged
8512 slightly damaged

Casualties: 212 dead, 517 injured. In addition a French and Russian POW Camp in Stuttgart-Rosenstein was hit, killing 399 prisoners.

Andreas Stihl Motorsaw Factory suffered damage valued at about 1,000,000 Reichsmark. It was estimated that partial production would be resumed in ammonth's time. Andreas Veigel, Measuring Instruments, will be out of action for at least some months. The Stadt Muehle was a total loss through fire. The United Ball-bearing Works suffered damage estimated at 3.7 million Reichsmark. Part production could be resumed in about 3 weeks. 25% of the works was completely destroyed. A.E.G. was also damaged. After much damage to railway installations traffic was resumed on 17 April. An Army transport train was hit. A gasometer of 100000 cub. m. capacity was burnt out. The Steam Power Station production was reduced from 99000 kilowatt to 59000. The duration of the reduced production was not determinable.

The following rounds of flak ammunition were expended:

10738	-	8.6 cm.
1905	-	4 cm.
850	-	3.7 cm.
14249	-	2 cm.

STUTTGART

6 SEPTEMBER

E. 1679 - Chief, Orpo. (USAAF) About 150 aircraft attacked the Old Town and the residential districts from 1045 hours until 1110 hours.
8a 2341 - LGK VII
War Diary
E. 624 - Min. of Pub.
Inf. & Prop.

Bombs dropped: 130 H.E. (17 D.A. and 9 duds)
9 oil bombs (6 duds)

Fires: 11 large, 2 medium and 8 smaller fires.

Houses: 46 destroyed
270 severely damaged
947 medium damage
840 slightly damaged
1100 glass damage only

Casualties: 107 dead, 165 injured and 4447 homeless.
2 Factories were destroyed and 3 others were damaged.

In addition to the bomb load recorded for Stuttgart and Strassburg the following were dropped on country districts:

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/4

R E S T R I C T E D

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4 mines
639 H.E.
624 incendiary bombs
305 phosphorous bombs
45 phosphorous drums and
181 oil bombs

There were also some 3 - 400 incendiary bombs with H.E. head. These bombs caused only very slight damage and little loss of life or personal injuries.

General Comments: The main target was Stuttgart but as a result of weather conditions, smoke screen and German defences the attack did not develop. On the return flight bombs were dropped on what was apparently the secondary target, Strassburg. Bombs were also dropped in many country districts of Wuerttemberg and Baden and the resulting damage to the war economy was negligible.

STUTTGART

7/8 OCTOBER

8a 2341 - LGK VII
War Diary
E. 1322 - Min. of Pub.
Inf. & Prop.

In addition to Stuttgart the raid covered Freiburg, Friedrichshafen, Munich and Boeblingen, in which about 200 - 250 aircraft took part. The actual raid on Stuttgart was made by about 170 aircraft in 4 or 5 waves. The raid took place in thick fog and was the heaviest yet on Stuttgart.

Bombs dropped: Stuttgart:
24 mines
206 H.E.
10300 incendiary bombs
1000 phosphorous bombs

Boeblingen:
25 mines
250 H.E.
14200 incendiary bombs
2100 phosphorous bombs

Friedrichshafen:
10 mines
32 H.E.
50 incendiary bombs

Other places:
3 mines
99 H.E.
7050 incendiary bombs
500 phosphorous bombs

Total: 62 mines, 587 H.E., 31600 incendiary and 3600 phosphorous bombs. There were also 300 flares.

Casualties: STUTTGART:
113 dead, 310 injured, 11500 homeless

/BOEBLINGEN:

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R E S T R I C T E D

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BOEBLINGEN:

60 dead, 250 injured, 2200 homeless

FRIEDRICHSHAFEN:

15 dead, 31 injured, 325 homeless

Other places:

27 dead, 44 injured, 975 homeless

Total: 197 dead, 580 injured, 15000 homeless

Houses:

STUTTGART:

240 destroyed, 905 severely, 2930 slightly

BOEBLINGEN:

350 destroyed, 160 severely, 1120 slightly

FRIEDRICHSHAFEN:

12 destroyed, 35 severely, 297 slightly

Other places:

268 destroyed, 350 severely, 973 slightly

Total: 870 destroyed, 1450 severely, 5329
slightly damaged.

At Boeblingen airfield several H.E. and incendiary bombs burnt down 2 wooden huts. 20 incipient fires were put out. Strassburg-Polygon airfield was hit by H.E. bombs, where a direct hit destroyed No. 5 Hangar and 25 trainer aircraft. Severe damage was also caused to the H.Q. buildings.

STUTTGART

8a 2341 - LGK VII

War Diary

E. 1679 - Chief, Orpo.

26/27 NOVEMBER

From about 1937 hours some 60 aircraft penetrated the Luftgau area using 13 recognised routes at a height of 4500 - 6000 metres and at a speed of 120 m/sec. measured and a few at 160 m/sec. estimated. Types were not recognised. Bombs fell between 2025 hours and 2130 hours.

Bombs dropped: 19 mines
180 H.E. (13 duds or D.A.)
22460 incendiary bombs (620 with
explosive head)
979 phosphorous bombs
4 oil bombs
25 phosphorous drums

Fires: 106 major, 117 medium and 621 smaller
fires.

Houses: 159 destroyed
173 severely damaged
242 medium damage
3536 slightly damaged

Casualties: 32 dead, 190 injured and 1227 homeless.

Daimler-Benz in Untertuerkheim was practically destroyed, the manufacture of speed boats being complete stopped. A barracks in Bad Cannstadt was destroyed and another damaged. The Oxygen Works in Untertuerkheim was severely damaged and an electricity works sustained medium damage.

/WARNEMUENDE

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G.11042/HC/10/56/

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WARNEMUENDE

29 JULY

E. 1679 - Chief, Orpo. (USAAF)
8a 1151 - Min. of Pub.
Inf. & Prop.

About 100 aircraft took part in this raid on the Rostock-Warnemuende area.

Bombs dropped: 200 H.E. (20 duds)
several hundred incendiary bombs

Casualties: 90 dead, 261 injured and 25 homeless.

At the Arado Works 4 workshops were destroyed or damaged. Other buildings were also damaged. About 80% loss of production resulted. Damage was also caused to railway rolling stock and buildings. A passenger train was damaged and detailed by H.E. bombs at the station and the goods station received a direct hit. In the harbour 4 tankers were destroyed at the Kroeger Yards and a steamer with ammunition aboard was hit. At the Kroeger Yards a hut used to accommodate Russians was destroyed by a direct hit. The Office building and porters house were damaged and slight damage was caused to all other buildings.

WIENER NEUSTADT

13 AUGUST

8a 1151 - Min. of Pub. (USAAF)
Inf. 7 Prop.
8a 2383 - LGK XVII,
War Diary Data

Concerning this raid the following points should be borne in mind:

- (a) that it was a daylight raid and
- (b) that Wiener Neustadt had not previously been attacked.

The works alarm was not taken seriously by the personnel. In addition, the attack came at a time when shift changing was in progress, which caused overcrowding in the slit trenches. Further, the majority of the workers chose to remain in the open in the belief that they would be safer there. The raid took place between 1356 and 1430 hours and was carried out by about 50 Liberators who flew in via Korfu - Sarajevo - Brod - Plattensee between Steinamanger and Oedenburg. The attack was in 3 waves at a height of 2000 to 5000 metres and at a speed of 350 - 400 k.p.h.

Bombs dropped: 247 H.E. (150 1000lb, 94 medium and 3 light)
370 incendiary bombs

Houses: 7 destroyed
26 severely damaged
28 medium damage
303 slightly damaged

Casualties: 134 dead (28 foreigners), 934 injured (128 foreigners) and about 1500 homeless. Of these 70 were killed and 126 injured in the aircraft factory. All casualties were outside the air raid shelters.

/Damage

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8 military buildings were destroyed, 1 sustained medium and 11 others slight damage. At the International Compressed Air and Electricity Works and metal workshops, the stores and an oil store were destroyed. A 100% temporary loss in production ensued.

WILHELMSHAVEN
8a 2211 - LGK XII
R. 265 - Registrar's
Office

11/12 FEBRUARY

About 30 aircraft made a major raid on, mainly, the Naval Base and residential area.

Bombs dropped: 3 mines
120 H.E.
11000 incendiary bombs
100 phosphorous drums

Houses: 25 destroyed
100 severely damaged
300 slightly damaged

Casualties: 17 dead, 71 injured, 21 buried.

There were some large fires. Considerable damage was inflicted on the naval installations. In the Naval Dockyards the artillery and periscope repair shop was destroyed. Otherwise there was no industrial damage.

WILHELMSHAVEN
As above

18/19 FEBRUARY

Penetrations by 30 - 40 aircraft are reported and a major attack developed.

Bombs dropped: 30 H.E.
500 Phosphorous bombs (20 D.A.)
8000 incendiary bombs (2 D.A.)

Fires: 2 large and 30 medium.

Casualties: 21 dead and 48 injured.

No serious industrial damage was done, At the Naval Dockyards the painters shop was destroyed and some workshops were slightly damaged.

WILHELMSHAVEN 21 MAY
E. 1679 - Chief, Orpo. (USAAF)

The raid was carried out by about 100 aircraft from 1343 hours to 1345 hours.

Bombs dropped: 300 H.E. (17 duds or D.A.), of which 200 fell on the town area and 100 on the Naval area.

Houses: 111 destroyed
150 severely damaged
320 slightly damaged

Casualties: 83 dead, 15 injured and 1500 homeless.

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The administrative buildings of the Gas and Electricity Works were severely damaged. One gasometer was burnt. Telephone lines were to a large extent put out of action, as were also the alarm systems. Numerous water mains were damaged. Drinking water was not affected. Damage to naval installations included: Metal workers shop and painters shop severely damaged; the south wing of the clothing store was destroyed; Officers' Messes severely damaged, one barrack block damaged and one tug sunk.

WILHELMSHAVEN 11 JUNE
E. 1679 - Chief, Orpo. (USAAF)
8a 2211 - LGK XII

From 1725 hours onwards strong formations (about 200 aircraft) attacked in several waves. The main weight of the attack fell on the naval installations and adjacent parts of the town.

Bombs dropped: 750 H.E. (31 duds)

Houses: 30 destroyed
30 severely damaged
300 slightly damaged

Casualties: 8 dead, 50 injured and 800 homeless. There were also 25 missing and a large number of slightly injured.

Only unimportant damage was caused to gas, water and electricity mains. The Central and Goods stations and permanent way installations were slightly damaged. A customs office was also damaged. In the naval area an accommodation ship was damaged by fire and 2 underground oil tanks, each of 2000 litres contents, were burnt out. The Deck Officers' School was badly damaged and the machine house of the building yards was damaged by fire.

WILHELMSHAVEN 3 NOVEMBER
E. 1322 - Min. of Pub. (USAAF)
Inf. & Prop.

About 300 aircraft in 4 waves attacked from the south and southeast from 1307 until 1335 hours. The raid was directed against the harbour, lock systems and the naval yards. The town centre and southern sectors were severely hit. It was considered the heaviest raid on the town to date.

Bombs dropped: 1000 H.E. and mines
3000 phosphorous bombs

Casualties: 9 dead, 19 injured and 4000 homeless.

About 80 fires were counted. The local automatic telephone exchange was destroyed and the Gas and Electricity Works was severely damaged, causing gas and power supplied to be cut. There were also

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numerous instances of water mains fractured. Considerable damage, though without details, is reported in the Naval Yards. Three barracks were damaged, two of them burning fiercely.

WUPPERTAL

29/30 MAY

E. 1679 - Chief, Orpo.
E. 2461 - LGK VI
8a 1151 - Min. of Pub.
 Inf. & Prop.

From 0012 hours until 0240 some 200 aircraft attacked Western Germany on a broad front with focal point Wuppertal. The raid on Wuppertal commenced at 0052 hours and by 0100 all postal, police and teleprinter communications with police H.Q. were cut.

Bombs dropped: 93 mines
1560 H.E. (96 duds)
182050 incendiary bombs
3934 phosphorous bombs

Fires: 141 large, 785 medium and 2000 smaller fires. In Wuppertal-Barmen an area fire of 8 sq. km. developed.

Houses: 4661 destroyed
6060 severely damaged
3166 medium damage
3391 slightly damaged

Casualties: 3324 dead, 6864 injured and 126061 homeless.

307 industrial concerns were hit, the County Court was set on fire and the Post Office in Oberbarmen was burnt out.

Considerable damage was caused to railway buildings and installations, including the permanent way, especially at the Central Station, Barmen, Wuppertal-Oberbarmen and Barmen-Heubrich stations. The last three were burnt out and Wuppertal-Barmen and Barmen-Heubrich stations were closed to passenger traffic.

Rudolf Rautenbach Light Metal Castings Works was destroyed by 8 H.E. and the foreign workers camp and the wood stores were burnt out. The Gas Supply Department of the Wuppertal Public Works was destroyed by phosphorous bombs. The Koetter Chain and Screw Works was 80% damaged by fire.

Electro-technical appliances at the Metzner and Jung works were completely destroyed. Considerable damage was wrought at the Hermann Terping Cog Wheel Factory in Wuppertal-Barmen by incendiary bombs which resulted in 100% loss of production until further notice. The effect of mines and incendiary bombs totally destroyed the Wilhelm Reising Machine Works in Wuppertal-Barmen. It was stated by the Kreisleiter of Wuppertal that the population had become careless about air raids and that many did not take shelter as there had not been an air raid for 3 years. Most of the damage to property had been caused by the tremendous blast

/effect

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effect in the hollow of the valley. Over a wide area one could not walk a step due to the extraordinary heat which was generated in the valley and the terrific suction caused jets of flame along the ground, often 40 to 50 metres long.

WUPPERTAL

24/25 JUNE

E. 1679 - Chief, Orpo.

E. 2461 - LGK VI

From 0045 hours until 0300 hours, during which time about 600 aircraft took part, Elberfeld, Unterbarmen, Solingen and Remscheid were mainly hit during this raid.

Bombs dropped: 301 mines
1997 H.E.
250000 incendiary bombs
20000 phosphorous bombs

Houses: 6000 destroyed
5000 severely damaged
3000 medium damage
6000 slightly damaged

Fires: An area fire in Elberfeld extended over about 12 sq. km. There were also 161 major, 149 medium and 183 smaller fires.

Casualties: 1619 dead and 2584 injured.

Apart from the fires in Elberfeld mentioned above there were a large number of fires in Unterbarmen and Langenfeld. In Remscheid there were 57 major, 12 medium and a large number of smaller fires and about 30 in Solingen.

There were 61 targets of industrial significance hit and 25 of these suffered a drop in production of 100%

Herberts Varnish Factory in Elberfeld suffered damage by fire as did also Metzenauer & Jung and Krupp-Clausen.

Two traffic installations were hit and two lines were closed as well as two diversions. Total losses are recorded at:

5 public buildings
16 civil authorities
29 schools
25 churches
3 hospitals
2 supply installations
4 transport installations
61 industrial concerns and
3 military installations.

The Municipal Power Supply failed.

WUPPERTAL/SOLINGEN

22/23 AUGUST

E. 1679 - Chief, Orpo.

This is part of the raid directed against Leverkusen, Krefeld and Duesseldorf. Most of the damage was caused at Solingen/Ohligs and Velbert.

/Bombs

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Bombs dropped: 30 mines (2 duds or D.A.)
44 H.E. (4 duds or D.A.)
6380 incendiary bombs
1093 phosphorous bombs

Fires: 6 major, 12 medium and 75 smaller fires.

Houses: 24 destroyed
46 severely damaged
67 medium damage
854 slightly damaged

Casualties: 38 dead and 48 injured.

Of the 10 industrial targets hit 2 were destroyed and there was also a military installation hit.

R E S T R I C T E D

TRANSLATED EXTRACTS FROM A HAMBURG POLICE HEADQUARTERS REPORT
ON THE LARGE SCALE AIR RAIDS ON HAMBURG FROM 25 JULY TO 3 AUGUST 1943;
dated 10 September 1943.

EFFECT OF RAIDS

1. Casualties

(as on 10 September 1943)

Dead 26,409

Injured 19,854

Homeless and Missing (estimated) 900,000

Bodies are still being recovered from the rubble every day. Conservative estimates expect the number of dead to rise to 35,000 or more. It has not been possible to compile a full list of the injured; the true figure is probably much higher. It will not be possible to establish the number of missing with accuracy until all evacuees and all who are away or have left report to the police.

2. Number of Persons Who Have Left the City

(a) Population before the raids: 1,768,884

(b) Number who have left the city: 970,000 (approx.)

3. Damage

Civil Defence Sector No. 1

Before the raids there were:

38 WLS Factories (Concerns with Factory A.R.P.)

219 ES Works (Extended Self-Protection Businesses)

28 Concerns under Special Administration

Now there are:

31 Concerns with Factory A.R.P.

139 Extended Self-Protection Businesses

25 Concerns under Special Administration

IMPORTANT WORKS DESTROYED OR DAMAGED (Excerpt from List)

Works	Extent of damage	Loss of Production
P.Beiersdorf & Co., Chemical Works	total	100%
Beit & Co., Chemical Works	total	100%
Wasmuth & Co., Chemical Works	total	100%
Fritz Simon, Chemical Works	total	100%
Carstens & Co., Battery Works	total	100%
Otto Schilling, Metal Works	50%	100%
Kampnagel & Co., Engineering	75%	100%
Communications		
Hamburg Hochbahn: (Underground Railway)		
Stadtpark Depot	heavy	100%
Hamburg Hochbahn: Coach Shop and		
Repair Shop	heavy	100%

/Military Installations

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Military Installations	Extent of damage	Loss of Production
Stadtpark Assembly Hall - Armed Forces Store	total	
Skittle Alley - Armed Forces Store	total	
Army Car Park	total	

Civil Defence Sector No. 2

Before the raids there were:

8	Concerns with Factory A.R.P.
154	Extended Self-Protection Businesses
46	Concerns under Special Administration

Now there are:

5	Concerns with Factory A.R.P.
95	Extended Self-Protection Businesses
39	Concerns under Special Administration

IMPORTANT WORKS DESTROYED OR DAMAGED (Excerpt from List)

Works	Nature of damage	Loss of production
P. Beiersdorf & Co., Chemical Works	heavy	100%
Communications		
Hamburg Hochbahn, Sandweg Depot	total	100%
Hamburg Hochbahn, Eduardstrasse Depot	total	100%
Public Buildings		
Hamburg Radio Station	heavy	
Military Installations		
Hamburg Air Raid Warning Command	total	100%

Civil Defence Sector No. 3

Before the raids there were:

116	Concerns with Factory A.R.P.
5835	Extended Self-Protection Businesses
14	Concerns under Special Administration

Now there are:

31	Concerns with Factory A.R.P.
3372	Extended Self-Protection Businesses
10	Concerns under Special Administration

IMPORTANT WORKS DESTROYED OR DAMAGED (Excerpt from List)

Works	Extent of damage	Loss of production
Schenk, Engineering Works	total	100%
Stein & Son, Manometer Works	total	100%
C.Plath, Nautical Instruments	total	100%

/Siemens & Halske

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Works	Extent of damage	Loss of Production
Siemens & Halske	total	100%
Siemens-Schuckert	total	100%
Power Stations		
Hamburg Electricity, Sub-Station Carolinenstrasse	heavy	98%
Hamburg Electricity, Sub-Station Grossneumarkt	heavy	100%
Hamburg Electricity, Sub-Station Gr.Reichenstrasse	heavy	100%
Hamburg Water Works, Administrative Offices	total	
Communications		
Hamburg Hochbahn, Administrative Offices	heavy	

Civil Defence Sector No. 9

Before the raids there were:

59	Concerns with Factory A.R.P.
142	Extended Self-Protection Businesses
61	Concerns under Special Administration

Now there are:

56	Concerns with Factory A.R.P.
117	Extended Self-Protection Businesses
58	Concerns under Special Administration

IMPORTANT WORKS DESTROYED OR DAMAGED (Excerpt from List)

	Extent of Damage	Loss of production
Nobel & Co., Chemical Works	total	100%
Dr. Fritz Voigt, Chemical Works	total	100%
Max Kroenert, Engineering	total	100%
Altona Iron Works, Schenk & Co.	heavy	50%
Communications		
Hamburg Hochbahn, Lagenfelde Depot	total	100%
Altona - Kaltenkirchen Railway, Station and Track	total	

Civil Defence Sector No. 4

Before the raids there were:

70	Concerns with Factory A.R.P.
1123	Extended Self-Protection Businesses
16	Concerns under Special Administration

/Now

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Now there are:

31	Concerns with Factory A.R.P.
233	Extended Self-Protection Businesses
3	Concerns under Special Administration

IMPORTANT WORKS DESTROYED OR DAMAGED (Excerpt from List)

	Extent of Damage	Loss of Production
J. Jansen-Schütt, Iron Construction	total	100%
Klößner Works, Air Construction	total	100%
Heinr. Schütt, Iron Works	total	100%
Klößner-Humboldt-Deutz	total	100%

Concerns under Special Administration

Hamburg Central Station	burnt out	rail traffic reduced to 50%
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Military Installations

Naval Clothing Store, Danielstrasse	total
Naval Depot, Billstrasse	total
P.O.W. Camp, Hanseatenhalle	total

Bridges

Railway Viaduct Heidenkampsweg/Berliner Tor heavily damaged
 Railway bridge over the Tiede Canal heavily damaged

Civil Defence Sector No. 5

Before the raids there were:

40	Concerns with Factory A.R.P.
327	Extended Self-Protection Businesses
22	Concerns under Special Administration

Now there are:

31	Concerns with Factory A.R.P.
111	Extended Self-Protection Businesses
16	Concerns under Special Administration

IMPORTANT WORKS DESTROYED OR DAMAGED (Excerpt from List)

	Extent of Damage	Loss of Production
Promonta Chemical Works	total	100%
Nilsson & Korte, Engineering	total	100%
Carl & Dr. Fritz-Ullner, Chemical	heavy	50%

Power Stations

Hamburg Electricity, Eilbeck Sub-Station	heavy	100%
Hamburg Electricity, Eilbeck East Sub-Station	heavy	100%
Hamburg Electricity, Güntherstrasse Sub-Station	heavy	100%

/Communications

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Communications	Extent of Damage	Loss of Production
Hamburg Hochbahn, Angerstrasse Depot	heavy	
Hamburg Hochbahn, Horn Depot	total	100%
Hamburg Hochbahn, Lübecker Strasse Station	total	100%

Concerns under Special Administration

German Railways, Landwehr, Hasselbrook and Wandsbecker Chaussee and the S-Bahn (District Railway) track and Hamburg-Lübeck main line	heavy	
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Military Installations

Air Force Signals Abteilung, Horst-Wessel Strasse 2	total	
Hamburg Smokescreen Superintendent, Landstrasse 167	total	

Civil Defence Sector No. 6

Before the raids there were:

30	Concerns with Factory A.R.P.
185	Extended Self-Protection Businesses
12	Concerns under Special Administration

Now there are:

14	Concerns with Factory A.R.P.
45	Extended Self-Protection Businesses
4	Concerns under Special Administration

IMPORTANT WORKS DESTROYED OR DAMAGED (Excerpt from List)

	Extent of damage	Loss of Production
New York - Hamburg Rubber Products Co.	total	100%
Hammonia Metal Works	total	100%
H.Danger, Engineering	total	100%
Max Rentsch, Engineering	total	100%
H.J.Dankers, Engineering	total	100%
Fritz Hesselbein, Chemical Works	total	100%
Experimental Shipbuilding Station	heavy	100%

Power Stations

Hamburg Electricity, Flotowstrasse Power House	heavy	70%
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/Communications

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	Extent of Damage	Loss of Production
Communications		
Hochbahn Stations at Wagnerstrasse, Mundsburg, Habichtstrasse, Barmbeck	heavy	
Barmbeck main line station	heavy	

Civil Defence Sector No. 10

Before the raids there were:

22	Concerns with Factory A.R.P.
128	Extended Self-Protection Businesses
13	Concerns under Special Administration

Now there are:

15	Concerns with Factory A.R.P.
75	Extended Self-Protection Businesses
9	Concerns under Special Administration

	Extent of Damage	Loss of Production
Abshagen & Co., Chemical Works	total	100%
North German Asbestos & Rubber Works	total	100%
Augsburg-Nuremberg Engineering Co., Wandsbek Branch	total	100%
Gierner & Son, Engineering	total	100%
A Habermann, Engineering	total	100%
Bauer & Schaurte, Precision Tools	heavy	100%
Aero Engineering	heavy	100%
Daimler-Benz & Co.,	heavy	100%

Power Stations

Hamburg Gasworks, Depot and Workshop, Adolf Hitler Platz	total	100%
Hamburg Electricity, Wandsbek Sub-Station	heavy	100%

Communications

Wendemuthstrasse Tram Depot	total	
Wandsbek Main Line station and track	heavy	
Wandsbek Goods Station	heavy	

Military Installations

Signals Barracks No. 20 and Army Station Administration	heavy	
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Civil Defence Group, Dock Area "A".

Before the raids there were:-

2	Concerns with Factory A.R.P.
118	Extended Self-Protection Businesses
1	Concern under Special Administration

/Now there are:

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R E S T R I C T E D

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Now there are:-

2	Concerns with Factory A.R.P.
80	Extended Self-Protection Businesses
1	Concern under Special Administration

Power Stations	Extent of Damage	Loss of Production	Remarks
Grasbrook Gasworks, Harburgerstrasse 1	heavy	100%	The actual supply was cut by only 40%. But the destruction of the gasometers and coke ovens has brought everything to a standstill.

Communications

Dock Construction Authority	heavy	60%	Some workshops and part of the administrative building wrecked
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Public Property

Stores, warehouses and quay sheds	heavy	60%	
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Under Special Administration

Hannoverscher Station	heavy	60%	
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Shipping Casualties

SS GERHARD	1000 tons, sunk
SS ROTERSAND	1000 tons, sunk
SS GAFERN	1800 tons, sunk
SS FASAN, hospital ship	1000 tons, sunk
SS HAAKON JARL	2800 tons, sunk
SS PITRA	1000 tons, heavily damaged (still afloat)

A further 142 smaller craft (barges, ferries, lighters) totalling 18,580 tons were sunk and 58 vessels totalling 8,980 tons burnt out. One floating dock and 18 pontoons were sunk and 2 floating docks burnt out.

Dock Area "B"

Before the raids there were:

67	Concerns with Factory A.R.P.
283	Extended Self-Protection Businesses
15	Concerns under Special Administration

Now there are:

63	Concerns with Factory A.R.P.
234	Extended Self-Protection Businesses
15	Concerns under Special Administration

/IMPORTANT

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IMPORTANT WORKS DESTROYED OR DAMAGED (Excerpt from List)

	Extent of Damage	Loss of Production
Schliemanns Oil	total	100%
Hitzler Shipyard	heavy	70%
Töpfers Oil	heavy	60%
Schlafhorst, Chemical Works	heavy	70%
Kiehn Shipyard	heavy	75%

Shipping

1 Seagoing Ship (unnamed, new),	3000 tons, sunk
SS ALWIN RUSS	900 tons, heavily damaged
SS HELGA RUSS	2000 tons, heavily damaged
SS MOLTKEFELS	8000 tons, heavily damaged

A further 48 smaller craft (barges, ferries, lighters etc.) totalling 19,510 tons were sunk and 46 craft totalling 17,466 tons heavily damaged.

Dock Area "C"

Before the raids there were:

22	Concerns with Factory A.R.P.
104	Extended Self-Protection Businesses
8	Concerns under Special Administration

Now there are:

20	Concerns with Factory A.R.P.
98	Extended Self-Protection Businesses
7	Concerns under Special Administration

IMPORTANT WORKS DESTROYED OR DAMAGED (Excerpt from List)

	Extent of Damage	Loss of Production
Deutsche Werft, III Works	total	100%
"DEBEG" (German "Cable & Wireless" Firm)	total	100%
Rothmann & Co., Engineering	total	100%
G.C. Jenson, Shipyard	total	100%
Wagner & Abicht, Shipyard	total	100%
H.C. Stülcken & Son, Shipyard	heavy	90%
		(for 6 mths)
Blohm & Voss, Shipyard	heavy	70%
		(for 4 mths)

Shipping Casualties

SS DITMAR KOEL,	5088 tons, heavily damaged
SS HILDUR,	211 tons, seriously damaged
SS GENERAL ARTIGAS,	11,254 tons, sunk
SS VALE,	5981 tons, heavily damaged
SS LEUNA,	6956 tons, sunk

/SS MAGDALENA VINNEN

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SS MAGDALENA VINNEN, 3473 tons, sunk
Whaling Depot Ship WIKING 15,00 tons, heavily damaged
Blohm & Voss New Ship 36,000 tons, completely burnt out.
1U-boat sunk, 10 heavily and 20 slightly damaged
3 docks sunk, 4 heavily and 1 slightly damaged
A number of pontoons, barges and lighters sunk or damaged.

4. Effect on Transport

(a) Underground and Trams:

As a result of heavy and widespread damage to depots, stations, halts, tracks, tunnels, viaducts, overhead wires, signalling, rolling stock and other installations, the entire tram and Underground (Hochbahn) system was brought to a standstill. In the face of tremendous difficulties, an emergency bus service was soon brought into operation, and gradually the tram service and Underground service was restored on certain routes.

(b) Main Line Railways:

All the Hamburg stations were either completely wrecked or heavily damaged, and all lines from Hamburg heavily damaged. Fire damage on two occasions to central offices of the German Railways Administration and damage to telephone exchanges had a particularly serious effect. Services on nearly every line in Greater Hamburg were interrupted. Vital goods traffic was, however, maintained. It was possible to reach destinations outside Greater Hamburg from Bergedorf, Harburg and Altona.

5. Effect on Power

(a) Gas:

Following the raids on 28 July 1943, all the large gasworks in Hamburg were put out of action, partly as a result of direct damage to or destruction of installations and gasometers or mains, partly as a result of the interruption of current. There is no clear picture about the mains system, as many of the broken places are buried under wreckage. Only the Bergedorf works continued to function normally.

(b) Water Supplies:

The water works at Stellingen and Rothenburgsort were heavily hit by the raids, the latter in particular. The entire mains system was heavily damaged. Pipes supplying individual districts were destroyed. An emergency drinking water service was immediately provided from numerous public wells and factory supplies, purifiers and water carts being used.

(c) Electricity:

The NeuhoF power house was heavily damaged by H.E. bombs and will be out of action some time. The Tiefstack power house also suffered H.E. damage, but was only put out of action for a few days. Barmbeck power house was hit by a landmine and is out of action. The entire electricity supply is seriously affected. Current was cut off in

/various

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various districts as a result of severe damage to the mains system. The Lower Elbe power house was able to cover supply requirements, which were on a reduced scale as a result of the dislocation of industry and traffic.

6. Brief Summary of Damage (Excerpts)

Residential

- (a) Number of dwelling houses before the raids: 122,323
- (b) Number of houses still fit for occupation: 81,909
- (c) Number completely destroyed: 35,719
 - Number heavily damaged: 4,666
 - Number slightly damaged: 18,062
- (d) Number of flats before the raids: about 450,800
- (e) Number of flats completely destroyed: about 253,400

The figures given for (d) and (e) refer to the city area (excluding Harburg). Some 45,000 more flats suffered heavy, medium or slight damage; about half of these are at present fit for occupation.

Factories

(a) Before the raids there were:

- 524 Concerns with Factory A.R.P.
- 9068 Extended Self-Protection Businesses
- 292 Concerns under Special Administration

(b) Of these, the following were completely destroyed:

- 183 Concerns with Factory A.R.P.
- 4118 Extended Self-Protection Businesses
- 63 Concerns under Special Administration

(c) Number and description of the most important works, buildings and installations destroyed or damaged;

- 580 Industrial concerns and armament works (299 of the most important are listed by name)
- 2632 Commercial concerns (83 of the most important are listed by name)
- 379 Offices
- 7 Department Stores
- 13 Public Utilities works
- 22 Transport properties or installations (German State Railways and Post Office are listed under "Special Administration")
- 76 Public Offices or Buildings
- 80 Military stations or installations (34 of the more important are listed by name)
- 69 Concerns under Special Administration
- 24 Hospitals and clinics
- 277 Schools
- 58 Churches
- 77 Cultural centres and places of entertainment; theatres, cinemas, museums, libraries etc.
- 72 Banks, savings banks
- 11 Insurance companies
- 1 Zoo (Hagenbeck)
- 12 Bridges
- 112 National Socialist Party and National Socialist Welfare offices

/Shipping

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Shipping Damage

18 Seagoing ships totalling 108,262 tons
294 Small craft totalling 64,536 tons
31 U-boats
11 Docks

A number of pontoons, barges, lighters

Damage to Underground (Hochbahn) Carriages and Tramcars

225 Tramcars (driving sections) completely destroyed
195 Tramcars (trailing sections) completely destroyed
99 Underground carriages completely destroyed
17 Omnibuses completely destroyed
200 Tramcars and Underground carriages haavily damaged

Damage to German State Railways Rolling Stock

125 Passenger, luggage, Post Office and Mitropa carriages completely destroyed
300 Passenger, luggage, Post Office and Mitropa carriages damaged
11 District Railway (S-Bahn) carriages completely destroyed
32 District Railway (S-Bahn) carriages damaged
1000 Goods wagons completely destroyed
1400 Goods wagons damaged

7. Enemy Aircraft Brought Down

35 British aircraft crashed within the Hamburg Civil Defence District during the raids.

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ALLIED RAIDS ON GERMANY - 1943CHRONOLOGICAL INDEX

<u>DATE</u>		<u>TOWNS</u>
8/9	JANUARY	DUISBURG
9/10	JANUARY	ESSEN
13/14	JANUARY	ESSEN
21/22	JANUARY	ESSEN
23/24	JANUARY	DUESSELDORF
27/28	JANUARY	DUESSELDORF
2/3	FEBRUARY	COLOGNE
3/4	FEBRUARY	HAMBURG
11/12	FEBRUARY	WILHELMSHAVEN
14/15	FEBRUARY	COLOGNE
18/19	FEBRUARY	WILHELMSHAVEN
21/22	FEBRUARY	BREMEN
25/26	FEBRUARY	NUREMBERG
26/27	FEBRUARY	COLOGNE
3/4	MARCH	HAMBURG
4	MARCH	HAMM
5/6	MARCH	ESSEN
8/9	MARCH	NUREMBERG/FUERTH
9/10	MARCH	MUNICH
11/12	MARCH	STUTTGART
12/13	MARCH	ESSEN
18	MARCH	BREMEN/VEGESACK
26/27	MARCH	DUISBURG, (OBERHAUSEN)
27/28	MARCH	BERLIN
29/30	MARCH	BOCHUM, BERLIN
3/4	APRIL	ESSEN
4/5	APRIL	KIEL
8/9	APRIL	DUISBURG
9/10	APRIL	DUISBURG
10/11	APRIL	FRANKFURT
14/15	APRIL	STUTTGART
16/17	APRIL	MANNHEIM (LUDWIGSHAFEN)
17	APRIL	BREMEN
20/21	APRIL	ROSTOCK, STETTIN
26/27	APRIL	DUISBURG (OBERHAUSEN/MUELHEIM)
30	APRIL/1 MAY	ESSEN
4/5	MAY	DORTMUND
12/13	MAY	DUISBURG
13/14	MAY	BOCHUM
14	MAY	KIEL
16/17	MAY	EDER DAM
19	MAY	KIEL, FLENSBURG
21	MAY	WILHELMSHAVEN, EMDEN
23/24	MAY	DORTMUND
25/26	MAY	DUESSELDORF
27	MAY	JENA
27/28	MAY	ESSEN
29/30	MAY	WUPPERTAL

/11 JUNE

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<u>DATE</u>	<u>TOWNS</u>
11 JUNE	WILHELMSHAVEN, CUXHAVEN
11/12 JUNE	MUENSTER, DUESSELDORF
12/13 JUNE	BOCHUM
13 JUNE	KIEL, BREMEN/DELMENHORST
14/15 JUNE	OBERHAUSEN/MUELHEIM, (DUISBURG)
16/17 JUNE	COLOGNE
20/21 JUNE	FREIDRICHSHAVEN
21/22 JUNE	KREFELD
22 JUNE	HUELS
22/23 JUNE	MUELHEIM, (OBERHAUSEN), (DUISBURG)
24/25 JUNE	WUPPERTAL
25/26 JUNE	GELSENKIRCHEN, (BOCHUM)
28/29 JUNE	COLOGNE
3/4 JULY	COLOGNE
8/9 JULY	COLOGNE
9/10 JULY	GELSENKIRCHEN, (BOCHUM)
13/14 JULY	AACHEN
25 JULY	KIEL
25/26 JULY	ESSEN
26 JULY	HANOVER
28 JULY	OSCHERSLEBEN, KASSEL
29 JULY	WARNEMUENDE, KIEL
30 JULY	KASSEL
30/31 JULY	REMSCHIED
25 JULY-3 AUGUST	HAMBURG - See APPENDIX A
9/10 AUGUST	MANNHEIM, (LUDWIGSHAFEN)
10/11 AUGUST	NUREMBERG/FUERTH
12 AUGUST	RECKLINGHAUSEN, BONN, BOCHUM
13 AUGUST	WIENER NEUSTADT
17 AUGUST	SCHWEINFURTH, REGENSBURG
17/18 AUGUST	PRENEMUENDE
22/23 AUGUST	LEVERKUSEN, (WUPPERTAL/SOLINGEN), (KREFELD), (DUESSELDORF), (COLOGNE)
23/24 AUGUST	BERLIN
27/28 AUGUST	NUREMBERG/FUERTH
30/31 AUGUST	MUENCHEN-GLADBACH/RHEYDT
31 AUGUST/1 SEPTEMBER	BERLIN
3/4 SEPTEMBER	BERLIN
5/6 SEPTEMBER	MANNHEIM, (LUDWIGSHAFEN)
6 SEPTEMBER	STUTTGART, (STRASSBURG)
6/7 SEPTEMBER	MUNICH
22/23 SEPTEMBER	HANOVER
23/24 SEPTEMBER	MANNHEIM, (LUDWIGSHAFEN), (DARMSTADT)
27 SEPTEMBER	EMDEN
27/28 SEPTEMBER	HANOVER
29/30 SEPTEMBER	BOCHUM, (RECKLINGHAUSEN)
1/2 OCTOBER	HAGEN
2/2 OCTOBER	MUNICH
4/5 OCTOBER	FRANKFURT
7/8 OCTOBER	STUTTGART
8 OCTOBER	BREMEN
8/9 OCTOBER	HANOVER, BREMEN/DELMENHORST
14 OCTOBER	SCHWEINFURTH
22/23 OCTOBER	KASSEL

/2 NOVEMBER

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<u>DATE</u>	<u>TOWNS</u>	
2	NOVEMBER	WIENER NEUSTADT
3	NOVEMBER	WILHELMSHAVEN
3/4	NOVEMBER	DUESSELDORF
17/18	NOVEMBER	MANNHEIM/LUDWIGSHAVEN
18/19	NOVEMBER	MANNHEIM/LUDWIGSHAVEN, BERLIN
22/23	NOVEMBER	BERLIN
23/24	NOVEMBER	BERLIN
25/26	NOVEMBER	FRANKFURT
26	NOVEMBER	BREMEN
26/27	NOVEMBER	STUTTGART, BERLIN
29	NOVEMBER	BREMEN
2/3	DECEMBER	BERLIN
3/4	DECEMBER	LEIPZIG
11	DECEMBER	EMDEN
13	DECEMBER	KIEL, HAMBURG, BREMEN
15	DECEMBER	INNSBRUCK
16	DECEMBER	BREMEN
16/17	DECEMBER	BERLIN
19	DECEMBER	INNSBRUCK
20	DECEMBER	BREMEN
20/21	DECEMBER	FRANKFURT, MANNHEIM, (LUDWIGSHAVEN)
22	DECEMBER	OSNABRUECK
23/24	DECEMBER	BERLIN
29/30	DECEMBER	BERLIN
30	DECEMBER	MANNHEIM, LUDWIGSHAVEN

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APPENDIX C

ALLIED RAIDS ON GERMANY - 1943

TOWN INDEX

<u>TOWN:</u>	<u>DATE OF RAID</u>
<u>AACHEN:</u>	13/14 July.
<u>BERLIN:</u>	27/28 March; 29/30 March; 23/24 August; 31 Aug/1 Sept.; 3/4 September; 18/19 November; 22/23 November; 23/24 November; 26/27 November; 2/3 December; 16/17 December; 23/24 December; 29/30 December.
<u>BOCHUM:</u>	29/30 March; 13/14 May; 12/13 June; 25/26 June; 9/10 July; 12 August; 29/30 Sept.
<u>BONN:</u>	12 August.
<u>BREMEN/VEGESACK/DELMENHORST</u>	21/22 February; 18 March; 17 April; 13 June; 8 October; 26 November; 29 November; 13 December; 16 December; 20 December.
<u>COLOGNE:</u>	2/3 February; 14/15 February; 26/27 February; 16/17 June; 28/29 June 3/4 July; 8/9 July 22/23 August.
<u>CUXHAVEN:</u>	11 June.
<u>DARMSTADT</u>	23/24 September.
<u>DELMENHORST:</u>	See BREMEN
<u>DORTMUND:</u>	4/5 May; 23/24 May.
<u>DUESSELDORF:</u>	23/24 January; 27/28 January; 25/26 May; 11/12 June; 22/23 August; 3/4 November
<u>DUISBURG</u>	8/9 January; 26/27 March; 8/9 April; 9/10 April; 26/27 April; 12/13 May; 14/15 June; 22/23 June.
<u>EDER DAM:</u>	16/17 May.
<u>EMDEN:</u>	21 May; 27 September; 11 December
<u>ESSEN:</u>	9/10 January; 13/14 January; 21/22 January; 5/6 March; 12/13 March; 3/4 April; 30 April/ 1 May; 27/28 May; 25/26 July.
<u>FLENSBURG</u>	19 May.
<u>FRANKFURT:</u>	10/11 April; 4/5 October; 25/26 November; 20/21 December.
<u>FRIEDRICHSHAFEN:</u>	20/21 June.
<u>FUERTH:</u>	See NUREMBURG.
<u>GELSENKIRCHEN:</u>	25/26 June; 9/10 July.

/HAGEN

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<u>TOWN</u>	<u>DATE OF RAID</u>
<u>HAGEN:</u>	1/2 October.
<u>HAMBURG:</u>	3/4 February; 3/4 March; 25 July - 3 August; 13 December.
<u>HAMM:</u>	4 March.
<u>HANOVER:</u>	26 July; 22/23 September; 27/28 September; 8/9 October.
<u>HUELS:</u>	22 June.
<u>INNSERUCK:</u>	15 December; 19 December.
<u>JENA:</u>	27 May.
<u>KASSEL:</u>	28 July, 30 July; 22/23 October.
<u>KIEL:</u>	4/5 April; 14 May; 19 May 13 June; 25 July; 29 July; 13 December.
<u>KREFELD:</u>	21/22 June; 22/23 August.
<u>LEIPZIG:</u>	3/4 December.
<u>LEVERKUSEN:</u>	22/23 August.
<u>LUDWIGSHAFEN/MANNHEIM:</u>	16/17 April; 9/10 August; 5/6 September; 23/24 September; 17/18 November; 18/19 November; 20/21 December; 30 December.
<u>MANNHEIM:</u>	See LUDWIGSHAFEN.
<u>MUELHEIM:</u>	See OBERHAUSEN.
<u>MUENCHEN-GLADBACH/RHEYDT:</u>	30/31 August.
<u>MUENSTER:</u>	11/12 June.
<u>MUNICH:</u>	9/10 March; 6/7 September; 2/3 October;
<u>NUREMBURG/FUERTH:</u>	25/26 February; 8/9 March; 10/11 August; 27/28 August.
<u>OBERHAUSEN/MUELHEIM:</u>	26/27 March; 26/27 April; 14/15 June; 22/23 June.
<u>OSCHERSLEBEN:</u>	28 July.
<u>OSNABRUECK:</u>	22 December.
<u>PRENEMUEDE:</u>	17/18 August
<u>RECKLINGHAUSEN:</u>	12 August; 29/30 September.
<u>REGENSBURG:</u>	17 August.
<u>REMSCHIED:</u>	30/31 July.

/ROSTOCK:

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<u>TOWN</u>	<u>DATE OF RAID</u>
<u>ROSTOCK:</u>	20/21 April.
<u>SCHWEINFURTH:</u>	17 August; 14 October.
<u>SOLINGEN:</u>	See WUPPERTAL.
<u>STETTIN:</u>	20/21 April.
<u>STRASSBURG:</u>	6 September.
<u>STUTTGART:</u>	11/12 March; 14/15 April; 6 September; 7/8 October; 26/27 November.
<u>VEGESACK:</u>	See BREMEN.
<u>WARNEMUENDE:</u>	29 July.
<u>WEINER NEUSTADT:</u>	13 August; 2 November.
<u>WILHELMSHAVEN:</u>	11/12 February; 18/19 February; 21 May; 11 June; 3 November.
<u>WUPPERTAL/SOLINGEN:</u>	29/30 May; 24/25 June; 22/23 August.

R E S T R I C T E D