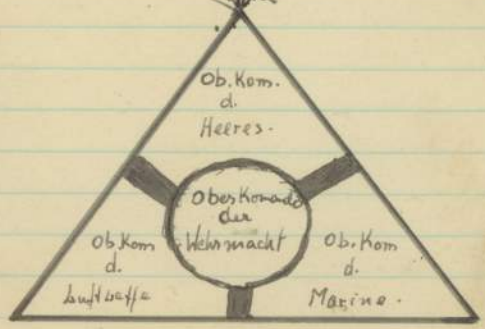
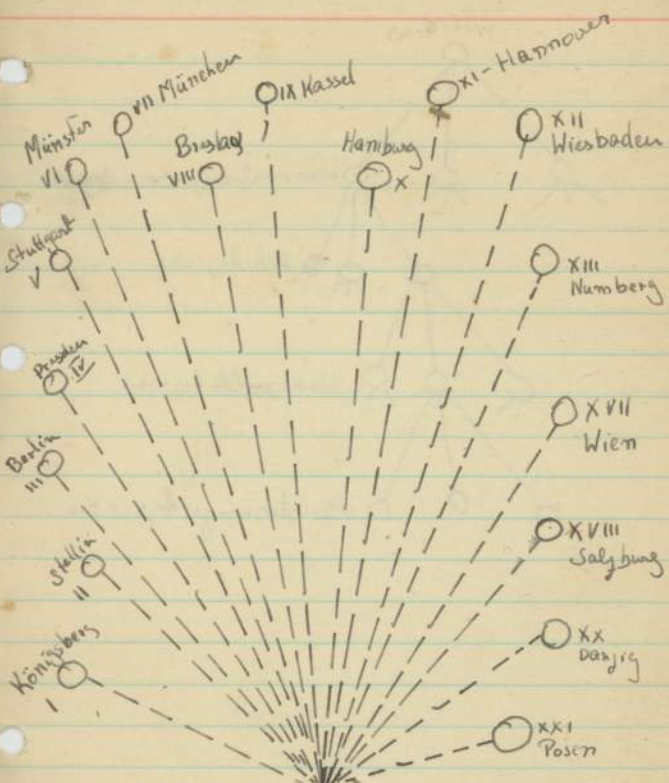
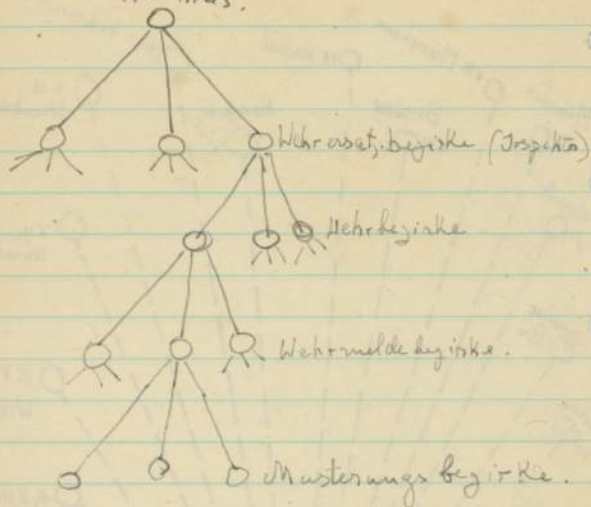


NOTES. ON
GERMAN ARMY
1939 - 1945.

Germ. Organ.



Wehrkreis.



Gliederung des Divisions Stabes.

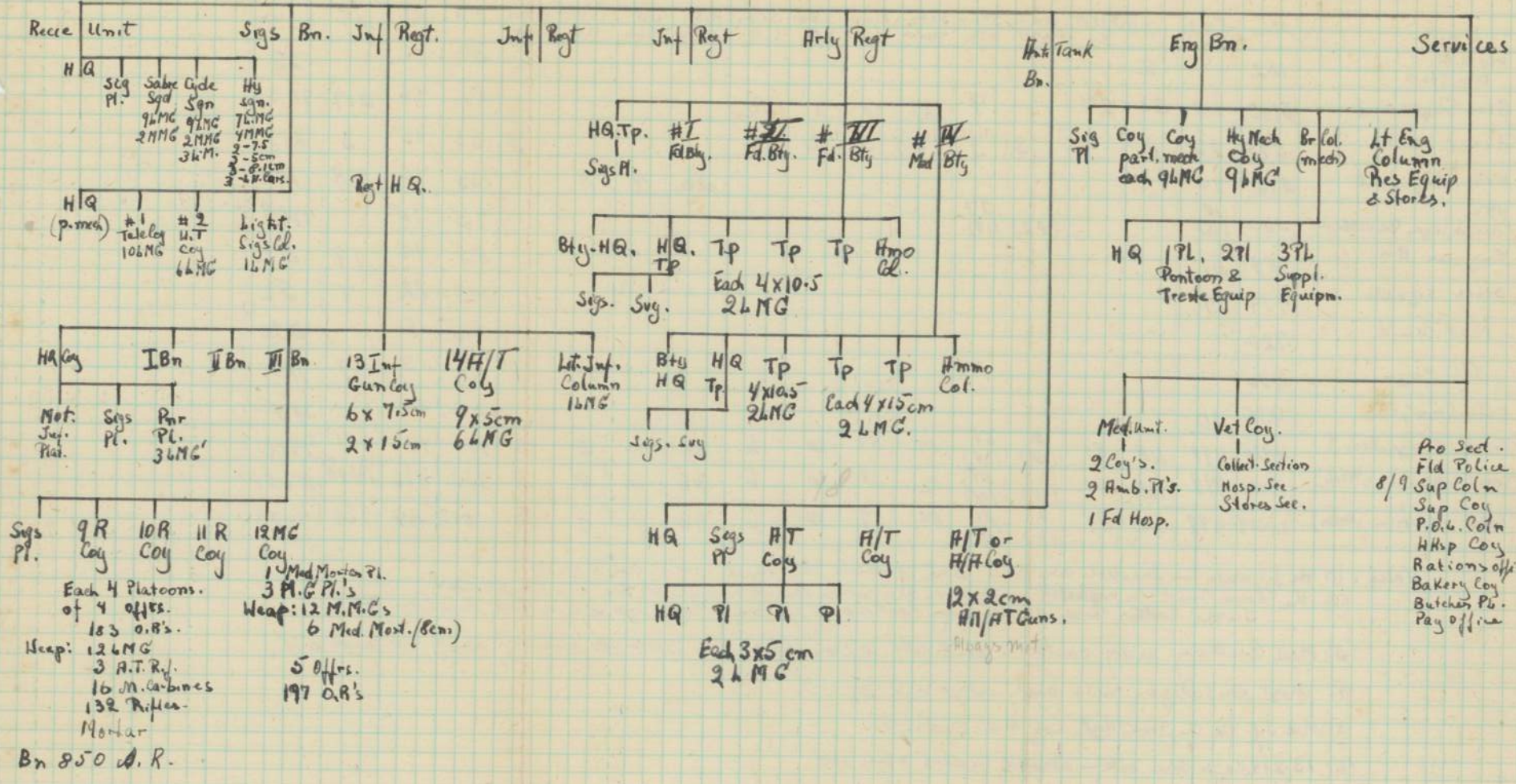
Divisions Kommandeur.

Führungsabteilung (F) Erster Generalstabs offizier.	Gruppe Ia (Taktische Führung)	Gruppe Ic (Feindbild; Beobacht.)	Gruppe Nachr.	Gruppe Pi
	Erster Genst. Off. (Ia) Erster Ordnung off. (O.D.)	Dritter Genst. Off. (Ic) Dritter Ord. Off. (O.D.) 2 Mitarbeiter (Dolmetscher)	Kdr. Div. Nachr. Btl. (Div. Nach. Fü.) Leiter d. Nachrichten Betriebes.	Kdr. Div. Pi. Btl. (Div. Pi. Fü.)

Quantitätsmeisterabtl. (Qw) 2. weiter Generalst. offizier.	Gruppe Ib	Gruppe Ib/WuG (Waffenw. u. Genst.)	Gruppe Iv (Kraftfahrwesen)	Gruppe IVa (Intendanten)	Gruppe IVb (Sanitätswesen)	Gruppe IVc (Veterinärwesen)	Gruppe Nachschubführer
	2. Genst. Off. (Ib) 2. Ord. Off. (O.D.)	Hauptmann (H) Mitarbeiter (Beamten - Lt) 2 Sachbearbeiter	Divisionsingenieur Mitarbeiter.	Div. Intendant 2 Mitarbeiter Stabszahlmeister	Div. Arzt Stabsarzt	Div. Veterinär Stabsveterinär	K.O. Di. Na

Adjutantur (Adj.) Divisions Adjutant.	Gruppe IIa (Offiz.-Befehlshaber)	Gruppe IIb (Mannschaftsangelegenheiten)	Gruppe III (Rechtspflege)	Gruppe IVd (Koch- u. Hk.) (Koch)	Gruppe H. Qu.
	Div. Adj. (IIa) Registrator Registrator (Beamten - O.Bt.)	Vierter Ord. Off. (O.D.)	Div. Justizbeamte (Kriegsgericht Rat und Wehrd. Rat)	Div. Pfarrer (Ev. u. Kath.)	Kdr. d. Stabsquartiers Zahlmeister Kopfbed. u. angestellter Verpflegungsbereit., Gepäckfr. Meldes. Ordnung off., Stab isache, Feldpost, Feldgendarmerie.

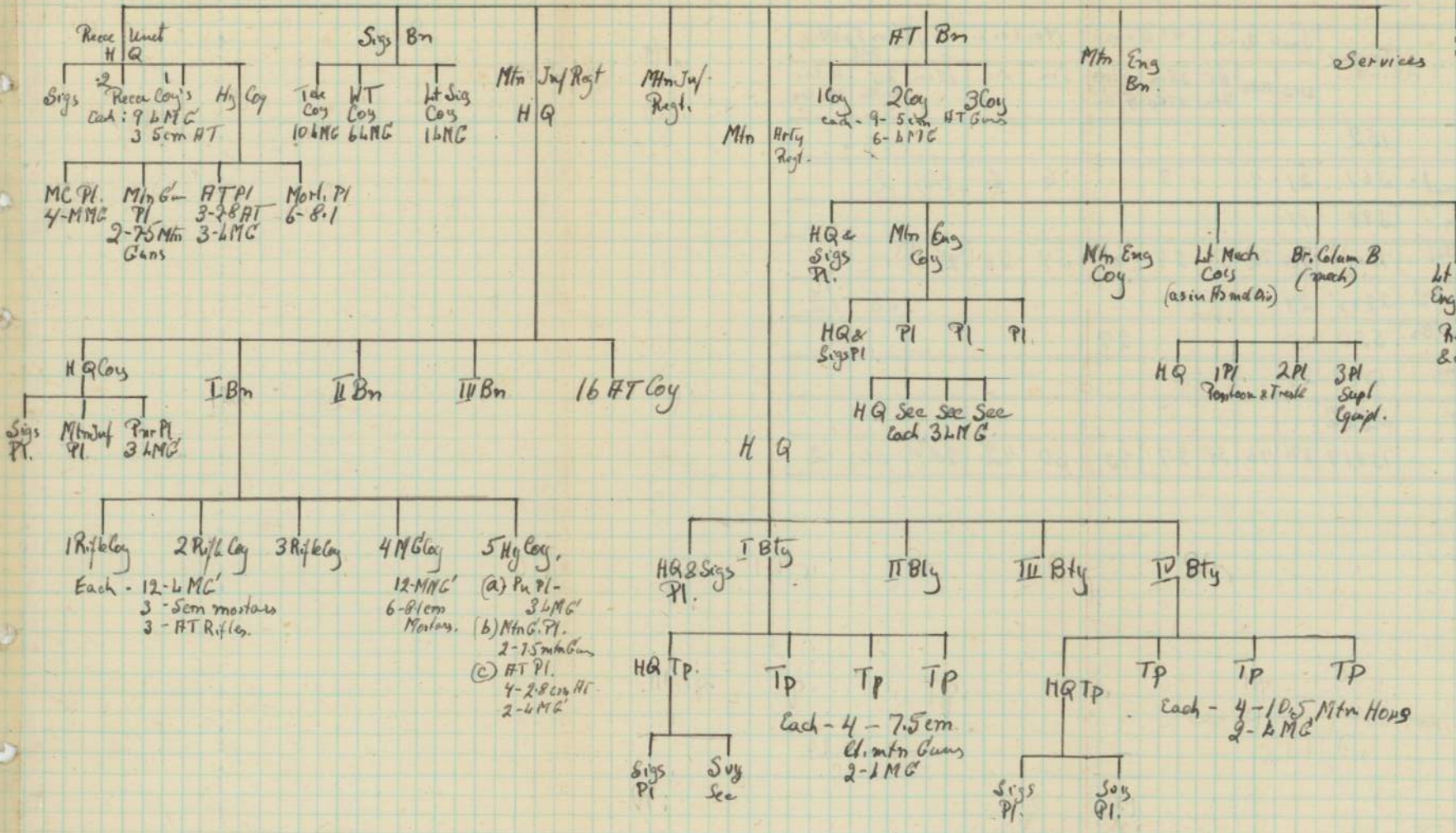
INFANTRY DIV.



INF. DIV.

Unit.	Mess	LMG	HMG	7.92 R.	20mm Exp M/G	50mm ATK	5cm mortar	Plum Mortar	7.5cm I.B	15cm I.B	10.5 Gun How	10.5 Gun	15cm Howl	Arm'd Cores.	M.F.	M/C	H/F	Horses.
Div H.Q. Div. Staff	152		2												30	17		20
Green Regiment	3160	118	26	27		9	27	18	6	2					81	46	217	703
Reece Unit	575	25	2			3	3	3	3	2				3	33	45	3	213
Art'y Regiment	2700	24									36	4	8		135	40	238	1789
ATK. Panzerjäger Battalion.	550	18 (16)				27 (12)	18 (18)								95	45		789
Engineer Bn.	789	31													85	44	19	52
Div's. Signals.	474	17													103	32	7	52
Med. Unit	720														115	18		52
Vel. Coy.	235														10	3	17	185
Other Services.	930	30													200	81		185
Total (Average Mech.)	16925	499	118	81	3 (15)	57 (48)	84	57	20	6	36	4	8	3	960	451	1151	4940
Total (Minimum Mech.)	17405	499	118	81	3 (15)	57 (48)	84	57	20	6	36	4	8	3	873	436	1420	5621
Total (Maximum Mech.)	16609	499	118	81	3 (15)	57 (48)	84	57	20	6	36	4	8	3	1052	464	934	4423

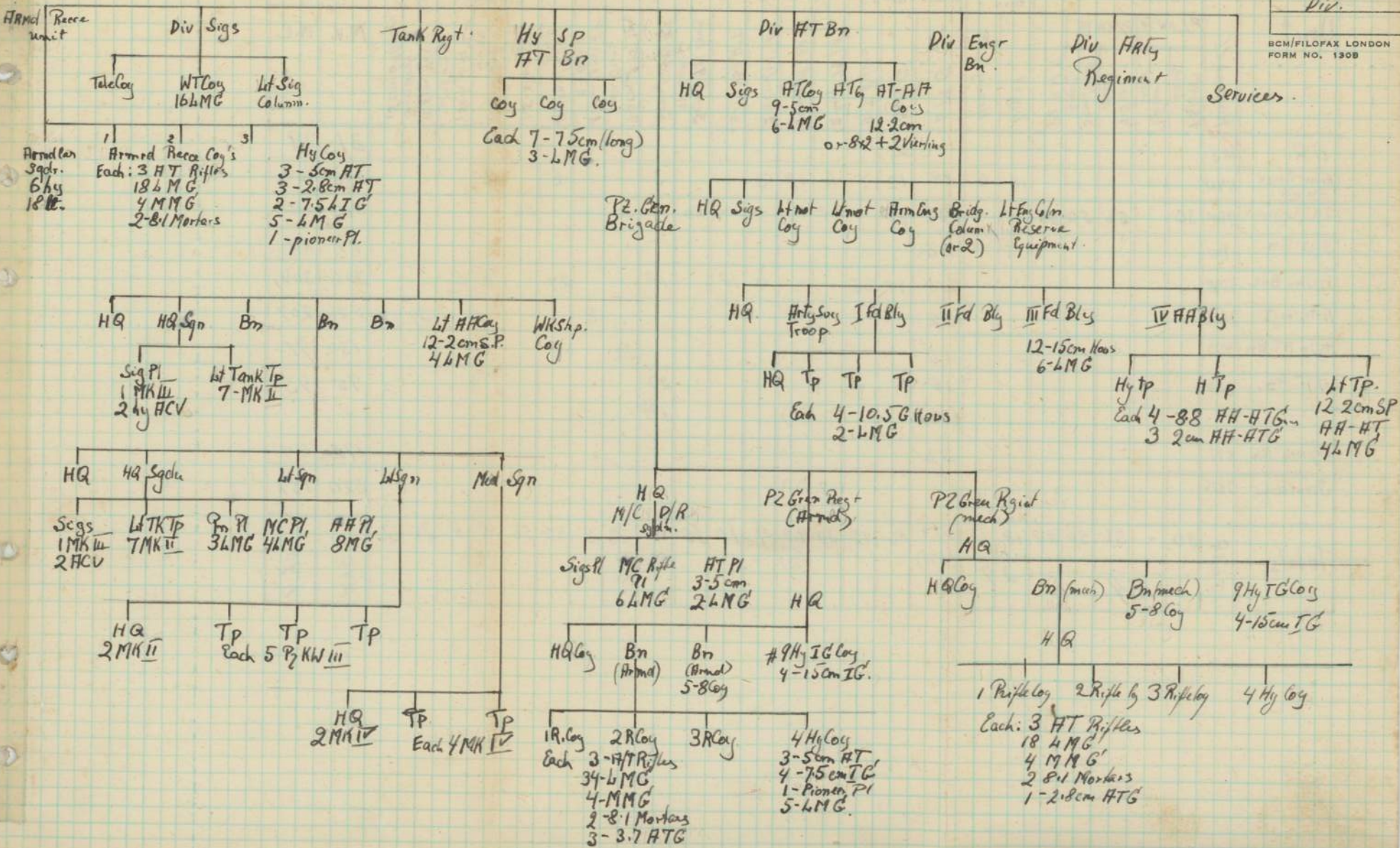
- Notes: (1) The figures in brackets are for a Bn of which the third Coy is an H.H. Coy.
(2) The Reece Unit is reflected in many divisions by either a cyclist Bn or a mobile unit.
In the latter case the div may have no ATK Bn & two coys of the mobile unit are ATK Coys.
(3) Med Battery may contain entirely 15cm hows. Divs 300-400 probably have no med. Coy.
(4) Most low category divs have only a sign Coy.
(5) Mid Inf Flk in Green Regt. may be a cyclist Fl.
(6) 13 & 14 Coys are often absent in divs above 300.
(7) Art'y only instead of a regt in Divs 700-720. And probably no M.G. Coy.
(8) In Russia indep. Hk Coys have been allotted to inf. Divs.



Unit	Personnel	Small Arms			AT Guns		Mortars			Close Support Artillery	
		LHC	MHC	AT Rifles	2.8cm ATG	5cm ATG	5cm	8.1	12cm	7.5 M.Mn Gun	10.5cm M.Mn How
H.Q.	152										
Reece Unit	561	21	4		3		6	6	4(?)	2	
Sigs Bn.	398	17									
Two Mtn Inf. Regt.	7000	264	72	54	24	18	54	36	24(?)	12	
Mtn Artillery Regt.	2245	24								36	12
Anti Tank Bn.	550	18				27					
Eng Bn.	1049	27									
Services	3262										
Total:	15217	371	76	54	27	45	60	42	28(?)	50	12

ARMoured DIVISION

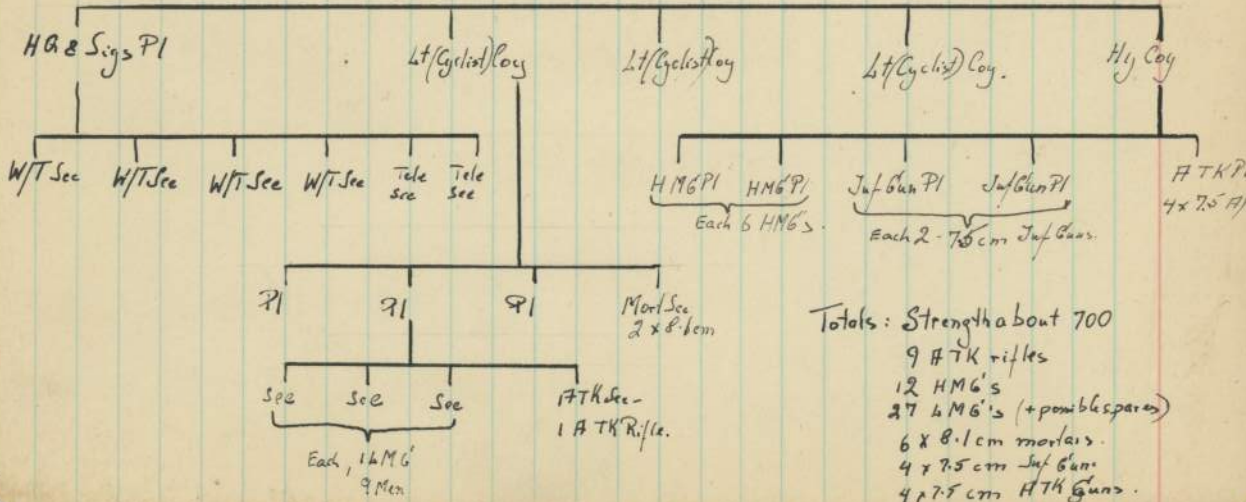
ARMoured
Div.
BCM/FILOFAX LONDON
FORM NO. 1308



SS Divisions.

Div	Type	Regt.
1. Leibstandarte Adolf Hitler	P ₂	PGR 1 and 2
2. Reich	P ₂	PGR 3 and 4
3. Totenkopf	P ₂	PGR 5 and 6
4. Polizei	P ₂	PGR 7 and 8
5. Wiking (believed destroyed)	P ₂	PGR 9 and 10
6. Nord	Geb	Geb jä. R 11 and 12
7. Prinz Eugen	Geb	Geb jä. R 13 and 14
8. Kavallerie	Kav.	Kav. R 15, 16, 17 and 18.
9. Hohenstauffen	P ₂	PGR 19 and 20
10. Frundsberg	P ₂	PGR 21 and 22
11. Nordland	P ₂	PGR 23 and 24
12. Hitlerjugend	P ₂	PGR 25 and 26
13. Kroatien	Geb	Geb jä. R 27 and 28
14. Galizien	Juf	GR 29, 30 and 31
15. Lettische (Latvian)	Juf	GR 32, 33 and 34
16. Reichsführer	P ₂ GR	PGR 35 and 36
17. Götz v. Berlichingen	P ₂ GR	PGR 37 and 38

DIVISIONAL
FUSILIER BATTALION



Totals: Strength about 700
 9 ATK rifles
 12 HM6's
 27 HM6's (+ possible spares)
 6 x 8.1 cm mortars.
 4 x 7.5 cm Inf Guns
 4 x 7.5 cm ATK Guns.

GHQ Tank Units.

- The GHQ Tank bn numbered in 500 Series.
- Consists of PzKw VI's and PzKw III's

There are five main groups.

(a) Flame Thrown Tank Battalions.

(Normally allotted to corps.)

HQ Coy (with NO Lt TK platoon)

3 TK Coys, each

HQ (2 PzKw II's)

3 flame thrown pl. (each 4 Fthrs - II's)

1 TK Pl - (5 MK II's)

Lt TK Coln

Workshop platoon.

Total strength: 770 (est)

Note: - the MK II Fthrs may be replaced by MK III's.

(b) Organic Corps TK Unit.

(Numbered - corps, or corps plus 100 or plus 400)

1. French Tanks. (organization unknown).
- ii. MK III's and IV's

HQ Coy (1 MK III; 7 MK II's)

4 TK Coys/each, 22 MK III's or MK IV's

Workshop Coy.

Est. strength - 1300.

- iii. Tiger TK bn may be allotted to corps by Army.

(C) Foreign Tank Battalions

Numbered from 205 to 223 and normally allotted to Corps

Org. unknown. May have German Tanks, or German Guns on Foreign chassis.

1) Bns and Coys controlling Goliaths & B-4 Equipment.

1. Engr Coys in 800 Series -

1st Plat. of 3 Sections

Each Sec 16 men, 5 Goliaths and 1 AM6

2nd Plat of 3 Goliath Sec and 1 AM6 Sec (2 AM6)

The Coy is reported, incl spares, of 96 Goliaths.

2. One Coy in 300 Series reported to have

16 - 7.5cm assault guns

46 - Goliath equipments

36 - B-4 equipments.

2) Independent GHO Tank Battalions.

Numbered 501 and up - Army tps may be suballotted.

HQ Coy (2 MK VI's, 3 MK III's)

2 Coys

HQ

HQ plat (1 MK VI; 2 MK III)

4 Plat (each, 2 MK VI's; 2 MK III's)

Workshop Coy.

Total strength 950 (est).

Indications are that a Coy incl 12 rather than 8 Tigers, and 3 rather than 2 coys.

R E S T R I C T E D

ORGANIZATION OF GERMAN STAFFS

The Army Archives (Heeresarchiv) section of the GMDS Archives consists mainly of journals (with appendices) of German field units. Since each staff section of a German headquarters was generally responsible for the preparation of a journal, the card catalogue of the Army Archive section has been arranged according to the responsible staff sections. (The documents are filed on the shelves within units according to the German accession number). The purpose of this chart is to show the staff sections of the various German headquarters and the fields of activity for which they were responsible. Sometimes a staff section did not issue its own journal, but made a contribution to the one of the next senior staff section or group.

OPERATIONS GROUP (Führungsabteilung)

	<u>Army, Group</u>	<u>Army</u>	<u>Corps</u>	<u>Division</u>
Operations (G-3)	Ia	Ia	Ia	Ia
Operations, Maps & Survey	Ia/Mess	Ia/Mess	Ia/Mess	Ia/Mess
Artillery Staff Officer	Stoart	Harko	Arko	
Engineer Staff Officer	Gend Pi	Pi FÜ	Stopi	Stopi
Signal Staff Officer	Na FÜ	Na FÜ	Na FÜ	Na FÜ
Anti-tank Staff Officer	Stopak	Stopak	Stopak	Stopak
Gas Defense Staff Officer	Gabo	Gabo	Gabo	Gabo
Transportation Staff Officer	Gend Trs Pw	Bu T.O.		
Training	Id	Id		
Intelligence (G-2)	Ic	Ic	Ic	Ic

SUPPLY GROUP (Quartiermeisterabteilung)

	<u>Army, Group</u>	<u>Army</u>	<u>Corps</u>	<u>Division</u>
Supply (G-4)	OQu	OQu	Qu	Ib
Military Police	Feldgend	Feldgend	Feldgend	Feldgend
Administrative Officer	IVa	IVa	IVa	IVa
Medical Officer	IVb	IVb	IVb	IVb
Veterinary Officer	IVc	IVc	IVc	IVc
Motor Transport Officer	V	V	V	V
Postmaster	FPM	FPM	FPA	FPA

PERSONNEL GROUP (Adjutantur)

	<u>Army Group</u>	<u>Army</u>	<u>Corps</u>	<u>Division</u>
Personnel Officer-Officers	IIa	IIa	IIa	IIa
Personnel Officer-Enlisted Men	IIb	IIb	IIb	IIb
Judge Advocate	III	III	III	III
Chaplain	IVd	IVd	IVd	IVd
National Socialist				
Indoctrination Officer (N.S.F.O.)	VI	VI	VI	VI

Staff















German Conventions
S. 501.

German Conventional Signs.

I Base Signs














H.Q.s													
	Div.	Rest.	Bn.	Coy	Inf. Bn.	Arty		HA	Tk	PZ (P. Grm)	Car. Recce		

II Weapons.

													
MG	AT Rifle	Flame thrower	Inf. Gun	Mortar	HT Gun.	Small Mortar	Smoke Equipment	Gun.	How	HA Gun	Assault Gun	P.T.K. Art.	

III H.F.V's













IV M.T

												
TK	Hand Car	Arm. Tr. Gun	Mgt.	pantry w/d.	Tractor drawn	S.P.	Semi-trailer	Cyclist	M/C	Miss. Eng.	T. Rec. Pl.	Motor Printing

ARMS.

												
Para	Engineers	Radio	Supply	Car. or Recce.	Medical	Mountain	Signs	Survey	HT-Jobs capros.	Infantry app.	Sch. Unit	Balloon Bom.















Boundaries.















													
Army	Pz. Army	Corps	Division	Regt	Battalion	Company	Target	limit of Recce			Main line of Resistance		

Obstacles.

Misc

Mines

													
Gas/Chemical Mine	4 Ton Fun	8 Ton	16 Ton	Assault Pl	12 Ton Bury	4 Ton Bury	Coastline	Apron	in depth	Trip wire	Trip wire mines	Trip wire	Bound marked lane

													
Missile Sign Lane	Box Mines	Anti Pers. Mines	AT ditch or Trap	Rly	Protest	Bakery	Butchery	Construction					

ECM/FILE FAX LONDON FORM No. 130A

Signs

German

FILOFAX REGD.

Long Distance Raider	Army Co Operation	Bomber.	Dive Bomber	Twin Engine Fighter	Single Engine Fighter.	Night Fighter
Ground Attack	Transport	Multi Prop	Courier.	Single Engine Fighter Bomber.	H.Q Single Engine Fighter Bomber	H.Q Bomber Group
Bomber S. 12 Hiresail.	Ground Attack 41 Hiresail.					

Kennzeichen am Kfz und Krad:

Stab 1. Pz-Div.		weiß		III, A.R. 73		weiß	
Pz.-Rgt. 1		"	gelb	Pz.-Pi.-Btl. 37		"	gelb
Pz. Werkst. Kp.		"	"	Brück. Kol. K		"	"
1. Kol I, Pz.		"	"	2. Pi. Kol		"	"
" II, "		"	"	Div. Nachsch. Fuh.		"	"
Pz. Abt. (F) 101		grün	"	1. (-10.) Kw. Kol		"	"
Stab 1. Schtz.-Brig		weiß	"	Nachschubkp.		"	"
Schtz.-Rgt. 1		"	"	1. 50. Kp.		"	"
1. J. f. Kol. S.R. 1		"	"	2. "		rot	"
Schtz.-Rgt. 113 (sonst wie S.R. 1)		rot	"	1. (-3) Kr. Kw. Zug		gelb	"
Kradschtz.-Btl. 1		weiß	"	Verpflegungs-Amt		weiß	"
Pz.-Aufkl.-Abt. 4		"	"	Feldpost-Amt		"	"
2. Kol. Pz. A. A. 4		"	"	Bäckerei-Kp.		"	"
Pz. Jäg. Abt. 37		"	"	Schlachterei Zug		"	"
Pz. N. A. 37		"	"	Feldgend. Trupp		"	"
1. Pz. Nachr. Kol.		"	"	1. (-3.) Div. Werkst. K		"	"
Artl.-Rgt. 73		"	"			"	"

Taktische Kennzeichen für Flak

(dazu kommt, wenn 1 Pz-Div. unterstellt: ein A (in gelb) am Kfz u. Krad.)

Stb. 5. Abt.	Stb. 7. Abt.	105 cm	88 cm	37 cm	2 cm	M.G. Flugabwehr

Beleuchtungsstufen:

1 - 4

- Beleuchtungsstufe I: Normale Beleuchtung ohne Abblendkappen und ohne Nachtmarschgerät.
- II: Abblendkappen, Abblendlicht für Nachtmarschgerät. Schalterstellung V 3
- III: Abblendkappen, Standlicht für Nachtmarschgerät. Schalterstellung V 2
- IV: Normale Kfz. Beleuchtung ganz ausschalten, für Nachtmarschgerät. Schalterstellung V 1
- V: für Normalgerät wie Stufe II, Nachtmarschgerät ebenfalls ausgeschaltet.

Kennzeichen der 20 Panz.-Div.: (in gelb)

1.	6.	11.	16.
2.	7.	12.	17.
3.	8.	13.	18.
4.	9.	14.	19.
5.	10.	15.	20.

Zeichen für taktische Grenzen:

	Armee-grenze		Bataillonsgrenze
	Korpsgrenze		Kompaniegrenze
	Divisionsgrenze		Zielgrenze
	Regimentsgrenze		Aufklärungsgrenze

Equipment, Weapons
A.F.V's.

Details of German Tanks.

German
Tanks.

BCM/FILOFAX LONDON
FORM NO. 130B

Type	Weight tons	Thickest Armour in mm			Armament	Ammo carried in Rounds	Speed on Rds in M.P.H.	Radius in Miles		Crew	Remarks.
		Front	Sides	Top				Rd.	Cross Country		
<u>Light</u>											
PzKW IB	5.7	15	15	8	2 MG 13	1525	25	95	70	2	
Comd	5.8	30	15	8	1 MG 13					3	
PzKW II A-F	9/10	35	15	15	1-20 mm KwK	180	25	115	72	3	
(F)	12	35	15	15	2 Flame Throwers	1000	34	155		3	Flame thrower S.D. KFZ 122
5/60					1 MG	2735 Gal.					1942 - 66 tyre wheels.
PzKW 38 (t)	10	50	30	15	150mm KwK 39	90+3000	25	140	100	4	
1x3-T or 4.7 T or 2 MG.											
<u>Light - Medium</u>											
PzKW III 1-5	22	50	32	18	1-50mm KwK 39		28			5	1942 spaced armour.
K-M	22	50+22	32	18	1 MG 34					5	1942 Spaced Armour Standard.
Note 1					1-50mm KwK 39						
Comds DE.	19/22				1 MG 34						Similar in Appearance to PzKW III
H	22	30+30		12+14	1 Dummy 50 KwK						
					2 MG 34						
<u>Medium</u>											
PzKW IV F		50	30	12	1-75 KwK	83				5	1941
G'		50	30	12	2 MG 34	2025				5	1942
Brückenleger					1-75 KwK 40						Br. Leger.
					2 MG 34						
<u>Heavy</u>											
Panther (PzKW V)	45	100	45	17	75 KwK ⁴³ 40-77	75	25 (max)	105		5	1942 submersible.
	24/50				1-75 MG 34	2500					
PzKW VI	56	102	82	26	1-88mm KwK 36	92	17			5	1942 sides of turret & hull have been penet-ated by 6 lbs at 500 yds.
					2 MG	46 Bells.					

- Note: (1) PzKW III have been seen in large numbers apparently identical to Model 4, except that they mount a 75mm KwK.
 (2) PzKW I has been discontinued - Possible new model will emerge for airborne troops.
 (3) German tank now being equipped with new Panther to replace III & IV
 (4) MK VI has submersible properties up to 15 feet.

PzKW III - Flame thrower. - Range 35 yds.

German Inf Guns, Fd and Med ARTY.

	German Name	Length in lbs.	Ht in Action	Wt of Shell lbs	Max Range Yds.	Max Muzzle Wt.	Types of Ammo used.	Remarks.	Engl. Equip. approx.
Infantry Guns.	1) 7.5cm (2.95 in) GIG 18	10	880 lbs	12	3880	730	HE. Hollow Charge	5 charges - split into 6 loads for pack tpt. - Horse or MT drawn	4.2 Mils
	2) 7.5cm (2.95 in) GIG 18			12			HE	Performance similar to Serial 1 No shield fitted to Gun	
	3) 7.5cm (2.95 in) LG 40	15.3	320 lbs	12.56	7410	1197	HE APCBC Hollow charge	Recoilless Gun, can be dropped by parachute in two parts.	
	4) 10.5cm (4.14) LG 40		895 lbs				HE HP	Recoilless Gun, can be dropped by Para in four parts	
	5) 10.5cm (4.14) LG 42							Manufactured by Rhein Metall (LG 40 by Krupp) Difference not known	
	6) 15cm (5.9) SIG 33	11	1.5 tons	85	5140	790	HE Smoke	6 charges. - may be fitted with Rubber Tired wheels - Horse or Tractor	
Field Artillery	7) 7.5 (2.95) Geb. K 15	15.4	1380 lbs	12	7250	1270	HE	4 charges - split into 7 loads for pack transport.	
	8) 7.5 (2.95) Geb. K 36							Detail not known. 5 charges same ammo as Serial 3	
	9) 7.5cm (2.95) L.F.K 18	25.8	11 tons	15	10310	1590	HE, Hollow Charge APCBC Tracer Smoke	3 charges, Hty wheels.	
	10) 7.5 (2.95) FK 38						He Hollow charge		
	11) 10.5cm (4.14) L.F.H. 18	25.7	1.9 tons	34	11670	1540	HE; AP; Tracer APCBC - Smoke etc. Hollow charge Tracer	6 charges - Muzzle break on some new Equip. - Horse or MT. L'EH 18(M) (ir. brk) Fires special long shell to range of 13450	25 lbs
	12) 10.5 (4.14) G.Eb.H. 40							No Details Known.	
	13) 10.5 (4.14) L.F.H. 42							No Details Known - this is a L.P. model.	
Medium Artillery	14) S 10cm K 18	50	5.5 tons	34	20800		HE; AP Shell APCBC Shell	3 charges - 10.5 same carriage as 16 - Horse or MT drawn.	
	15) S 10cm K 42							No details known.	
	16) 15cm (5.9) S.F.H. 18	29.6	5.5 tons	95.7	14570		HE Anti Concrete Shell - AP Shell	8 charges - same carriage as 14 Horse or MT drawn.	5.5 inch Gun How
	17) 15cm (5.9) S.F.H. 42							No Details Known	
	18) 15cm (5.9) K 16	42	10.7 tons	113.5	24100		HE	3 charges - modified from tent size Horse or MT in two loads.	
	19) 15cm (5.9) K 18	55	12.6 tons	99	27200		HE - APBC APBCB	Horse or MT - 2 loads	
	20) 15cm (5.9) K 39	55		99			HE - APBC & APCBC shells		
21) 17cm K 18	50	16.5 tons	140	30500		HE	Details unconfirmed - actual cal 17.25 (6.79 inch).		

German Classification	APT Rifles	Jug Cans	Mortar	HT Cans	Smoke Mortars	Cans	Hous	Hy Hoas Houses	RF (km)
Light or Field. (62)	up to 7.9 mm	up to 7.5 cm	up to 7.9 cm	up to 3.9 cm.	up to 10.9 cm	up to 9.9 cm.	up to 12.9 cm		up to 3.6 cm.
Medium (m)			8-11.9 cm	4-5.9 cm	4-13.9 cm				3.7- 5.9 cm
Heavy (S)	8 mm and on	7.6 cm and on	12 cm and on	6-8.9 cm	16-21.9 cm	10-20.9 cm	13-20.9 cm.	21- 24.9 cm.	6- 15.9 cm
Super Heavy (S.W)				9 cm & over.	22 cm & over	8 cm & over.	21 cm and over	25 cm & over	16 cm & over.

German Self Propelled Equipment.

Designation	Mounting	Remarks.
<u>1. AA-AT Guns.</u>		
a. Sfl. 2cm Flak 30 or 38	Sd Kfz 10 / (Zykw 1 ton)	(61) 2cm Flak 30. Ford V8
b. Sfl. 2cm Flakvierling 38	Sd Kfz 7 / (Zykw 8 ton)	(42) 2cm Flak 38 4 wheeled med. car.
c. Sfl. 3.7cm Flak 36 or 18	Sd Kfz 6 / (Zykw 5 ton)	
d. 5cm Flak 41 auf sfl.		Nadeln's Krosser.
e. 8.8cm Flak 36 (Sfl)		" " "
f. 8.8cm Flak 41		" " "
<u>2. AT Guns</u>		
a. 2.8cm PzB 41	Sd Kfz 250	} local improvisation } Armed. Vehicles. } French & German.
b. 3.7cm Pak	Sd Kfz 251	
c. 4.7cm Pak (T) (Sfl)	PzKW I	
d. 5cm Pak 38		unconfirmed. Semi tracked?
e. 7.5cm Pak 40	PzKW 38 (T)	
f. 7.5cm Pak 40	PzKW II	
g. 7.62cm Pak 36 (R)	Sd Kfz 6 / (Zykw 5 ton)	local improvisation?
h. 7.62cm Pak 36 (R)	PzKW 38 (T)	
i. 7.62cm Pak 36 (R)	PzKW II	
j. 8.8cm Pak 43	PzKW VI (P).	
<u>3. Assault Guns.</u>		
a. Stu. G. 7.5cm K	PzKW III	Short 7.5 - 23 cal. pos. out of production 30 cal long, replacing above 7.5 KwK 40 - 43 cal. primarily AT Can.
b. Stu. G. 7.5cm K	PzKW III	
c. 7.5cm Stuk. 40	PzKW III	
d. 7.5cm KwK	Sd Kfz 251	
		short 7.5cm gun

Designation	Mounting	Remarks.
e. 15cm S.T.G. 33 (Sfl.)	P7KW I.	Chassis of 6 bogie wheels. prob. normal MKIV lengthened.
f. 15cm S.T.G. 33 (Sfl.)	P7KW II.	
<u>FD. or Med Artillery.</u>		
a. 10cm K (P2 Sfl.)		No details. believed. S: 10cm K 18.
b. 10.5cm Stu H. 42		No details.
c. 12.8cm K40 (P2 Sfl.)		No details.
d. 15cm S.F.H. (Sfl.)	Lorraine	

Wap. 10.5cm L.F.H. 18 on P7 KW II.
 charge G - 11650 yds.
 charge F - 14535 yds.
 radius - 127 miles.
 Speed - 24 m.p.h.
 Forging - 3 ft.
 gradient - 30°

Bumble Bee (Hummel)
 15cm S.F.H. 18 on ^{G.H.} P7KW IV
 Range - 10 - 14380 yds.
 speed - 25 m.p.h.
 radius - 96 miles.
 Forging - 2 ft. 7 1/2 inch.
 gradient - 33°

8.8 cm Pak 43,
weight: 4.4 tons

Braunbauer

15cm S.T.G on Pz Kw IV

26 tons

100 mm in front.

5 men

24 rounds -

25 m. p. h.

81 miles radius.

Hornet (Hornisse)

8.8 cm Pak 43/1 (Sf) auf Gw IV

Penetrate at 1000 yds 5 1/2 inches of Steel.

Thickest armour 2" on front of the hull

Height 26 ton

Speed 22 mph (approx).

Ferdinand

Weight 72 tons -

Speed 12 1/2 mph.

AMN ABBREVIATIONS

Patr SS	- Ball
Patr Smk (H)	- AP with TC Core
Patr Smk	- AP with Steel Core
L'sp(orm) L'sp	- Tracer
O L'sp	- Without Tracer
L'sp Z	- Tracer, self-destroying
Pzgr	- AP
Spgr	- HE
Nbgr	- Smoke

INTERCHANGEABILITY OF AMN

1. German MGs Rifle Ammo will fit Brit Besas and vice versa.
2. German Machine Carbine and Pistol ammo will fit Brit Stens and vice versa.
3. German 5-cm mortar can be fired from 2-in Mortar with loss of range - NOT vice versa.
4. German 8.1-cm mortar CAN be adapted to 3 in Mortar and vice versa. In either case NOT really suitable.

Abbreviation	PAK	KWK	StuK	StuH.
German words in file	Rangrabeher Kanone (Payerlager Kanone)	Hampfragen Kanone	Sturmkanone	Sturmkanone
General type	An HFG in design primarily for mounting on an ordinary (2 shaft) pedestal	H gun designed primarily for mounting in a tank	H gun designed primarily for mounting in an SP assault equipment	H howitzer primarily designed for mounting in an SP assault equipment
Fired	Mechanically	Electrically	Electrically	Electrically.
Posn of buffer and recuperator.	Both under barrel	One each side of barrel	Both above barrel and below in a key-stone shaped housing	Both above barrel and below in a key-stone shaped housing.

Spl - Selbstfahrlafette
 GW - Geschützwagen

Weapon	Type of Ammo	Total In Issue	With High Troops	On the Ground Coln	With Div Sup. Coln.
1 Rifle	a. Patr. S	a. 25	20	5	-
	b. Patr. Smk.	b. 98	75	20	4
2 Pistol	Patr. Patr. 08	a. 18	16	2	-
	"	b. 24	16	8	-
3 Mach. Carbine	"	a. 670	512	128	50
	"	b. 1536	1024	256	256
4. LMG I	Patr. S. S	675	500	125	50
	" Smk	502	375	90	37
	" Smk. L'sp	173	125	35	13
	Total	1350	1000	250	100
LMG II	Patr. S S	2890	2100	630	160
	" S.m.k	420	300	90	30
	" Smk L'sp	140	100	30	10
	Total	3450	2500	750	200
LMG III	Patr. Smk	2250	1250	500	500
	Smk L'sp	2250	1250	500	500
	Total	4500	2500	1000	1000
5. MMC	S. So. L or S.m.E.	5140	3950	1000	140
	Smk	660	450	150	60
	Smk L'sp	500	350	100	50
	Total	6300	4750	1250	300
	B Patr. for Mtn Div & Jag Div in Mtn range	500	500	-	-
Total	6800	5250	1250	300	
6. A.T. R (A, B, B39)	Patr. 318	145	125	20	-
7. 2cm Flak 30 & 38	Br. Spgr. P. 2 L'sp	480	480	-	-
	Br. Spgr. Patr. L'sp	480	480	-	-
	Patr. Patr. L'sp (2)	480	480	-	-
	Total	1440	1440	-	-
2cm Flak viewing.	Br. Spgr. Patr. L'sp	2900	2900	-	-
	Br. Spgr. Patr. O. L'sp	2900	2900	-	-
	Patr. Patr. L'sp '2'	2900	2900	-	-
	Total	8700	8700	-	-
8. 2cm KKK (A) for Tanks	Patr. Patr	175	115	-	60
	Patr. Patr 40	50	35	-	15
	Spgr. Patr	225	150	-	75
	Total	450	300	-	150
6. for armoured Cars	Patr. Patr	350	230	-	120
	Patr. Patr 40	100	70	-	30
	Spgr. Patr	450	300	-	150
	Total	900	600	-	300
9. 3.7cm Pak	Patr. Patr	120	105	10	5
	Patr. Patr 40	30	20	7	3
	Spgr. Patr	100	91	7	2
	Total	250	216	24	10

1. Rifle : A. all Rifle Platoons. M/C Rifle Coys; wild rifle platoon. Coy. (Coys of all kinds).
 B. by MG pl.; 2 montagnols, cyclists pl., M/C Mpl. Squad Coys. (M/C Mpl.)
 C. M/C M/C Pl. Rifle Coy. & by br. building Coys (much).

2. Pistol : A. Armoured units, cars, org's units with armoured vehicles.
 B. All other units.

3. Mach. Carbine. A. All units except Car & armoured force.
 B. Car and armoured force units.

Ammunition
Issues.

FILOFOX REGD.

Weapon	Type of Ammo	Total Issued	With fighting Troops	On the Lt. Column	With Div supplies.
10. 4.7cm Pak	Frz. 4.7cm	220	146	-	24
11. 5cm Pak	Pgr. Patr.	150	120	20	10
	Pgr. Patr. 40	40	32	4	4
	Spgr. Patr	30	24	4	2
	Total	220	176	28	16
12. 5cm Kuk	Pgr Patr	75	60	8	7
	Pgr Patr 40	50	30	10	10
	Spgr Patr	125	90	17	18
	Total	250	180	35	35
13. 7.5cm Kuk	Spgr Patr	160	105	-	55
	Pgr Patr	65	28	-	37
	Nbr Patr	25	7	-	18
	Total	250	140	-	110
14. 7.5 Sturmgeschutz	Spgr Patr	225	225	-	-
	Pgr Patr	45	45	-	-
	Nbr Patr	30	30	-	-
	Total	300	300	-	-
15. 7.5 cm Lt. inf Gun (L.I.G. 18)	7.5 Spgr 18	165	120	39	6
	7.5 Spgr 38	24	24	-	-
	Total	189	144	39	6
16. 15cm hvy inf Gun (S.I.G. 33)	15cm J.Gr 38	100	50	30	20
	15cm J.Gr 39. Hb/A	7	7	-	-
	Total	107	57	30	20
17. 5cm Mortar (L.G.H. 36)	5cm H.gr. 36	156	100	22	11
	5cm H.gr. 34	135	123	6	6
	5cm H.gr. Nb	15	9	3	3
	Total	306	232	31	20
19. 10cm Smoke Mortar	10cm H. Gr. 40	250	159	-	91
20. 10.5cm gun How (L.F. H. 18)	A.Z.	180	161	-	79
	Dopp. Z.	9	3	-	4
	Pgr	18	10	-	8
	Nbr	18	10	-	8
	Total	225	184	-	99
21. 15cm how (L.F. H. 18)	A.Z.	120	48	-	72
	Dopp. Z.	9	4	-	5
	Be.	9	4	-	5
	Nbr	12	4	-	8
	Total	150	60	-	90
22. 23/20 tapered ATK (S. Pz. B. 41)	2.8cm Pgr Patr	125	125	-	-
23. 7.5cm Lt. inf Mtk6 (L. Geb. I.G. 28)	Spgr. Patr	180	120	40	20
24. 10.5cm gun (K. 18)	Spgr Patr	250	126	-	124

4. L.M.B. I. All other units except those L.M.B.'s employed in R.F.V. in ground units and ssg units with and W.T. units.

II. Rifle boys of all types, cyclist platoon, M.P. Rifle boys of all types, M.P. inf. cav. and recce units, ssg boys of all types.

III. Front units, using L.M.B.'s in R.F.V.'s and ssg units with and W.T. units.

German Anti-Tank and Tank WPNS.

Weapon (German name in Brackets)	Penetration		Performance				Rate of Fire r.p.m.	Remarks.
	Type of Ammo	Muz. vel f.p.s.	Weight in lbs	Range yds.	Thickness of Armour in mm			
					30°	Normal		
① 2cm (.79 in) #1 AT & T Gun (2cm Flak 30; Flak Vierling (KWK 30, KWK 38) Fired electrically	HP Shell	2625	.327	100	31 (1.22)	48	120/150	MT diam or on SP mounting.
				200	29 (1.14)	44		
				300	27 (1.06)	41		
				400	25 (0.98)	38		
				HP 40 shot	3270	.223		
				200	45	52		
				300	41	48		
				400	37	43		
② 2.8cm (1.1 inch) tapered bore AT Gun model 41 (28cm Pa.B. 41) 28/28	HP Shell	4580	.287	100	69	84	8-10	Normally towed on a trailer equipped with ramps. May be transp. by air. Also fitted in 4 wheeled arm car.
				200	63	77		
				300	57	70		
				400	53	65		
③ 3.7cm (1.46 inch) AT & TK Guns (3.7cm Pak & KWK).	HP Shell	2500	1.68	200	42	56	8-10	Towed on own wheels or carried on a carry-alike Air born
				400	38	51		
				500	36	48		
	HP 40 shot	3380	.786	100	84	76	Figures for HP shot are estimated.	
				200	68	74		
				300	55	72		
				400	49	62		
				500	58			
④ 4.2cm (1.65 inch) 4.2cm Pak 41 42/28	HP Shell	4600	.796	200	93	115	Figures estimated.	
				500	77	94		
				700	68	83		
				1000	55	68		
⑤ 4.7cm (1.85 in) SP. AT Gun (4.7cm Pak) Spch.	HP Shell	2540	3.68	300	59	76	Figures estimated, SP. mounting, find chassis 18 i.e. Pak 41 with normal turret removed.	
				500	55	72		
				700	52	68		
				1000	47	62		
⑥ 5cm (1.97 inch) AT Gun & 5cm TK Gun in Neo MK III long barrel. (5cm Pak 38 & 5cm KWK 39)	HP Shell	2700	4.53	500	65	78	5cm Pak 38, towed on own wheels or on SP mounting Also airborne.	
				700	61	73		
				1000	56	67		
				1200	52	63		
⑦ 5cm (1.97 inch) Tank Gun (short barrel) (5cm KWK)	HP Shell	2250	3.68	500	56	68	-	Mounted in PzKW III
				700	52	63		
				1000	47	58		
				1200	44	54		
	HP 40 shot	3445	2.02	200	83	104	-	Figures for "Normal" estimated
				300	80	97		
				400	74	91		
				500	69	84		
⑧ 7.5cm (2.95 inch) TK Gun (short) (7.5cm KWK)	HP CB Shell	1350	14.81	500	46	55	Mounted in PzKW IV & III TK and in 7.5cm "Sturmgeschütz"	
				700	43	52		
				1000	41	50		
				1200	40	48		

Weapon	Penetration		Performance				Rate of Fire R.P.M.	Remarks.	
	Type of Ammo	Muzzle Velocity f.p.s.	Weight in lbs	Range yds	Thickness of Armour in MM				
					30°	Normal			
9) 7.5cm (2.95 inch) TK Gun (Long) (7.5cm Pak 40)	APCBC Shell	2900	15	500 1000 1500 2000	89 79 70 62	108 97 87 77	-	Mounted in the new type of Pz Kw IV TK. - Also S.P.	
10) 7.62 cm (3 inch) Pz Kw (7.62cm F.K(f) or (7.62cm Pak 36(f))	APCBC Shell	2930	16.72	P.B 500 1000 1500 2000 2500	105 94 83 73 64 56	133 118 105 92 81 71	-	Towed on own wheels on an S.P mounting (Pz Kw) 38(f) Figures estimated.	
11) 8.8cm (3.46 inch) Multi Purpose Gun (8.8cm Flak 36)	APCBE Shell	2600	21	500 1000 1500 2000	110 101 92 84	129 119 110 100	15-20	MT drawn out trailer 201 Also reported S.P mounting in form of 12 ton semi tracked tractor (see Fire Gun Trailer emerging).	
12) 7.5cm (2.95 inch) AT Gun 40 (7.5cm Pak 40)	HE. APCBC AP 40 Hollow charge	2830		<u>New Weapons.</u> 15		112.5 102 92 82 73	182 130 108.5 97 87		Mfg similar to that of 5cm Pak 38 but shield not curved, Also S.P on Pz Kw IV & Pz Kw 38(f) chassis. Figures Estimated.
13) 7.5cm ATK Gun 41 (7.5cm Pak 41) (7.5cm Pak 40)	APCBC HE	3963	16.65	500 1000 1500 2000	146 130 114 100	169.5 151 134 125		Revised 75/55 - high of barrel 500-600 yds - Fig's estimated	
14) 8.8cm (3.46 in.) H/H/AT Gun 41 (8.8cm Flak 41) (8.8cm Pak 43)	HE APCBC Hollow charge	3280	22.44	P.B 500 1000 1500 2000 2500	166 150 140 130 121 112	186 175 164 153 142 132		8.8 Pak 43 is 8.8 Pak 41 on F.H. only. Fig's estimated Also believed S.P mounting (Ferdinand).	

15. 7.92 (3.11 inch)
(PTR 39
(BB 39)

16 3.7 H/H/AT Gun 36
(3.7cm Pak 36)
probably obsolescent.

CAMCONCEALING

- (i) Wood, log hollowed and resealed) HE Bomb (has false bottom and contains some oil. HE housed in body; time "pencil" delay in spout)
- (i) Oil can, with long spout HE bomb)Skin of dead rat stuffed
- (iii) Rat HE and time "pencil" and sewn up) HE (Plastic Pocket Incendiary) Carried Magnets and adhesive tape) by agents posing as refugees
- (iv) Loaves of bread
- (v) "SHELL" oil tin, cylindrical HE Various devices (Carried ostensibly as spare footwear by agents posing as refugees)
- (vi) Shoes
- (vii) Tin of Jam
- (viii) Tablets, looking like dirty aspirin
- (ix) Toothpaste tubes uncoloured HE (has hole in bottom for detonator)
- (x) Clogs Abrasive Grease containing abrasive
- (xi) Suitcase HE Incendiary mixture. (Case itself may be made of incendiary material)

AMMUNITION ABBREVIATIONS.

- A. A usstoss.
Al. Mit Zusatz Al.
Bl. Blindgeladen. /form.
Bo. Bohrgeschoss in Pressstahl
Br. Brand.
Br.o'L'spur. Brand o' Leuchtspur.
Buntr. Buntrauch.
Deut. Deut geschoss.
Ex. Exerzier Geschoss.
--Kg. Kilogram.
LS. Leuchtsatzsprengladungen.
MR. mit Rauchentwickler.
Nb. Nebel Geschoss.
oR. ohne Rauchentwickler.
R7. Rauchentwickler Nr 7.
Rot. Rot. &
Stg. Stahlgussgeschoss.
Tp. Tropen.
U. Unterrichtsgeschoss.
Ub. Übungsgeschoss.
Ub. B. " " " B.
Vp. Verpackungs Geschoss.
Z.f.Hbgr. Zünder für Haubegranate.
Nz Nitrozellulose.
L.Gew. " " Gewehr.
Gu. Gudol.
Digl. Diglykol.
Ngl Nitroglykol
Gew. Nitropenta Gewehr.
~~Str~~ Str P³ Streifen Pulver.
Bl.P. Blättchen Pulver.
R.P. Rohren Pulver.
b.P. Staub Pulver.
Man.N.P. Manöver Nitro(?) Pulver.
Kr.P. Kreis Pulver.
Pl.P.
Nz. Maⁿ Nitrozellulose Pulver.

mB mit Bleidraht.
oBD ohne Bleidraht.
Abgebr Ldg. Abgebrochene Ladung.
A.Z. Anschlag Zünder.
Bd Z Boden Z.
Dopp Z Doppel Z.
E.Kzdr. Enfindlicher Kanonenzünder
Igr.Z. Infanteriegranate Z.
K.Z. Kopf Z.
Wgr.Z. Werfergranate Z.
Zt.Z. Zeit.Z.
Z.uZ.Z.
Z u Zt Z. Zug und Zeit Zünder.
Z.Z. Zug.Zünder.
Lg.Zdr S. Leucht Geschoss Z.
nA. neuer Art.
umg. umgeändert.
nV. mit Verzögerung.
oV. ohne. " "
St. Stahl
Zn. Zinc
lm. Leichtmetall
Ms. Messing
Nb. Nebel
Kl. Klein
Fg' or Fl. Flugbolzen
C/22. Construction/22
S/30. Sekunden/30
Fur
Pr. Prosstoff
Zerl. Zerlegung
leicht
z Zerl Zunder