Draft Report on Army Circulars, August 1875-`Tables shewing war strength and composition of battalion of infantry, regiment of cavalry... medical department'

Publication/Creation

1875

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TABLES

SHOWING THE WAR STRENGTH AND COMPOSITION OF A

BATTALION OF INFANTRY. REGIMENT OF CAVALRY.

Artillery.

BATTERY OF HORSE ARTILLERY. BATTERY OF FIELD ARTILLERY. DIVISIONAL AMMUNITION RESERVE. ARMY CORPS AMMUNITION RESERVE.

Engineers.

Company of Engineers. Field Park. Troop of Pontoon Train. Troop of Telegraph Train.

Medical Department.

AMBULANCE EQUIPMENT. FIELD HOSPITALS.

ARMY SERVICE CORPS.

BRIGADE OF CAVALRY. BRIGADE OF INFANTRY.

DIVISION.

ARMY CORPS.

36728.

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War Establishment of a Battalion of Infantry in the field	
Transport for the Regimental Staff of a Battalion in the field	
Transport for a Company in the field	
Transport for a Battalion	
Establishment of a Regiment of Cavalry -	
Transport for Regimental Staff of a Regiment of Cavalry	
Transport for a Squadron of Cavalry	
Transport for a Regiment	
Establishment of a Battery of Horse Artillery	
", ", Field Battery, 16-pr.	-
" " Field Battery, 9-pr	
Divisional Ammunition Reserve	,
Army Corps " "	
Establishment of a Company of Engineers	
" " Field Park	-
" " Pontoon Troop	-
" " Telegraph Troop	
Army Service Corps. A Company of Transport	1
" " A Company of Supply -	-
Medical Department	-
A Brigade of Cavalry. Detail of Staff, and Troops	-
A Brigade of Infantas	-
A Division.	-
An Army Corps,	-
	-
" " By Arms of the Service	-
" " By Divisions, with details -	- 20-
", "By Arms of the Service, with details	- 24



* For Transport Officer. † Armore-serieant to remain at base of operations. ‡ If tents are not carried, the detail will be, privates, 960; drivers, 18; with draught horses, 98. No bat animals allowed.

A 2



WAR ESTABLISHMENT OF A BATTALION IN THE FIELD.

Transport.—Table I. TRANSFORT required by the REGIMENTAL STAFF of a BATTALION in the FIELD for Camp Equipment, Light Baggage, Books, Small Arm Ammunition, Quartermasters' Stores and Intrenching Tools.

			Total	Numbers	required.		Describe				
Articles to	be conveyed.	Numbers.	Weight.	Carts.	Wagons.	Drivers.	Draught Horses.	Dr	TAIL.		
Firs Axes, hand, 1	t Line. handled - •	6	12		No.						
Blankets, g	rey, field - •	60	241							-	
Buckets, car	nvas	10	6						ght	8	
Forge, portal	ble	1	212					10	Draught.	61	
Hooks, reap	ing	5	. 5					Horses.			
Mettles, cam	p, Flanders -	10	86					-	1001	-	
Lanterns, b	rass, globular -	2	4						Chargers.		
Ropes, picke	t 16 yards -	4	33						ē .		
Sacks, corn		6	25	1	1	9	4	1	offic	3	
Shoes, horse	, sets	4	28					al.	N. C. officers and men.		
Tools, {col	llarmakers' -	1	05 281					Total.			
Regimenta	Books -		100					1.	Officers.	80	
Officers' { fiel mo	id officers - ounted officers - ansport officer -	3 4 1	240 200 40					-		0	
Cooking po			60						ALL DATE	10	
Mits, staff ser	rjeants'	9	180	l of the							
	Total		1,818	1				tan	file.	14	
tion.	n Ammuni-	28,500	3,840	8		8	6	-		-	
a second and a second	ster's Stores		2,240		1	02			and	8	
the Axes, 43 lbs.	helved, felling,	25	150	1				-			
4 lbs. Bars, c Hooks Picks, Shovel	row { 5' 6"	2 2 50	62 50	R.			123		Luomoers	14	
HPicks,		150	20	1		1	2	3	Pro-		
	1s, light	150	435				195 10	1.5	Hora		
Spade	s - · · · ·	10	60		100.1	100		Staff serjeants,	including transport serjeant.	00	
	Total		1,967	2	1			- 108	the set		
	Add for spare -		-	-	-	2	4		Ft.		1 1
	first line		9,165	4	2	10	20	Other	including transport officer.	10	
Blankets,	nd Line.	50	400	2			-	-			
Pads and St		1	50	-	3	6	12	- Inter) morene.	00	
Tents, comp	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		8,100	J		1 1 1 1 1 1 1		4	No.		
	second line -		8,616	-	3	6	12				
	Grand total		-	4	5	16	32				



5

WAR ESTABLISHMENT OF A BATTALION IN THE FIELD.

Transport.-Table II.

TRANSPORT required by a COMPANY in the FIELD for Equipment and Light Baggage.

Articles to be	conve	yed.		-	Num- bers.	Total Weight. Ibs.	Carts.	Drivers.	Horses.	DETAIL of a Company.
Axes, hand, handled					6	12	1	-		
Blankets, field servic	0	•	•	•	125	475		10 .		Tota
Buckets, canvas	•	•	-	•	10	6		1		Officers
Kettles, camp, Fland	ers	•	-	•	16	136				N.C.O. and Men :-
Ropes, 8 yards -		-	-	•	1	8	1	1	2	Serjeants 57
Sacks, corn .				•	1	42	1	1		Drammers 2
Shoes, horse, sets			•	-	2	14		1		Rank and
officers' bagago		:	:	:	3	$120 \\ 20$		1		File -117 Driver - 1
		Total	-			7951	U			Driver - 13

For Tentage, see Table I.

Transport.-Table III.

RECAPITULATION of TRANSPORT for a BATTALION.

		Cart	ls.			Horses.		
Services.	Weight in Ibs.	Small Arm Ammunition.	Stores and Intrenching Tools.	Wagons.	Drivers.	Chargers.	Draught	
First Line, without Tents. Equipment with Head Quar- ters (Table I.)	-	3	1	2	10	u	20	
For Eight Companies at each (Table II.)	-		8		8	-	16	
Total	-	3	0	2	18	11	36	
Second Line, Tents, &c.	-	-	-	3	6	-	12	
Grand Total - •	-	8	-	5	24	11	48	

CAVALRY.



6



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Ve

Armover Serjenti to be left at base of opurations,
If I conts are not carried this detail will be, privatos, 48% i drivers, 14; draught horses, 28. No Bát-animnis allowed.

7 CAVALRY.

ESTABLISHMENT OF A REGIMENT IN THE FIELD.

Transport.—Table I.

TRANSPORT required by the REGIMENTAL HEAD QUARTERS in the FIELD for conveyance of CAMP Equipment Light Baggage, Books, and Quartermasten's Stores.

Articles to be conveyed.	Numbers.	Weight, Ibs.	Wagons.	Drivers.	Horses.	DETAIL.
Axes { handled, hand	5 65 6	10 111 51	1			Officers. Total Field - : : 2 Others : : 5} 7
Bars, crow {5' 6" : :	1	31 23				Drivers · · 6 Horses,
Blankets { grey field service horse (if taken) -	6 (28)	24 (208)				Chargers : : 19 Draught : : 12}31
Buckets, canvas	16	72				C C C C C C C C C C C C C C C C C C C
Hooks, reaping	1.11				1. 12 . 10	
Eettles, camp · · ·	2	17			195	Sector States
Lanterns, brass, globular -	1	2				
Picketing mauls	2 18 4	18 99 33				
Shoes, horse, sets of 4 .	19	84	1 2	4	8	- The August of the P
Sacks, corn	6	8	(-		-	- A CONTRACTOR
Shovels	3	13				
Spades	3	16	a film hi			
Tents, circular (if taken) -	(8)	(720)		a h		
artificer's sets. sets. dietree makers	1	208 281				
officers' { field officers : baggage { others - :	2 5	160 250				
Officers' cooking pots -		60		Setting.	N-1-1-1	
Regimental Books -	-	100				
Kits, dismounted men -						
Quartermaster's Stores		2,000	/			
Total			1 days	0.123		
		12 1100		*		
Forge wagon	TRAINS OF	La St	1	2	4	

N.B.-The Band and Intrenching Tools included in Table II. Each G.S. wagon to carry three or four dismounted men. Small-arm ammunition provided for in "Divisional Ammunition Reserve."

8 CAVALRY.

ESTABLISHMENT OF A REGIMENT IN THE FIELD.

Transport.—Table II.

Articles to be conveyed.	Numbers.	Weight, Ibs.	Wagons.	Drivers.	Horses.	REMARKS.
Axes {handled, hand helved {felling pick	626	19 11 51	1	And the second	re lle X	
Blankets, grey, field -	154	616				
Buckets, canvas	4	8		1.25		mit laterally
Forge, portable	1	212		142		Detail of a Squadron.
Hooks, reaping	16	13		1.12	1	Total
Eettles, camp, Flanders -	19	161		1. 1.		Officers 6
Lanterns, brass, globular -	2	4	1	100		icant-ma-
Picketing {mauls	3 70 16	24 385 130	1	-	1	rg. (Troop ser- gain jor and jor and ser screats- 5 Artificers - 4 Artificers - 4 (Trompoters 2) Rank and Drivers Drivers Mol - 128 Drivers
Sacks, com	32	55				9 5 file 128 E Drivers
Shoes, horse, sets of 4 -	4	28	-			X° ((transport) 4)
Shovels	12	58				§ (Chargers - 19)
Spades	2	11		1 2.		Chargors - 19 Troop - 129 Draught - 8
Officers' baggage	:6	300			5	· · · · · · · · · · · · · · · · · · ·
" cooking pots -	-	40	J	1.		manage
Total	-	2,113	1	2	4	Showold -
2nd Line for Tentage, dc. Blankets, horse	134	1,005	h			A paden -
Buckets, canvas	6	5		a service	1.10	and and a second second
Pads and Surcingles -	130	130	1	2	4	than loss subsciego particular
Shoes, horse, sets of 4 .	4	28		1		
Tents, circular	14	1,200	J			· · · · · · · · · · · · · · · · · · ·
Total	-	2,428	1	2	4	- Martine Line 1
Grand Total		4,541	2	4	8	Technomical Intention

NOTE .-- Three or four dismounted men to be carried on each G.S. wagon.

Transport.-Table III.

	Total	Wag	gons.				
DISTRIBUTION.	Weight, lbs.	Forge.	General Service.	Drivers.	Horses.	REMARKS.	
Regimental head quarters (Table I.)	-	1	2	6	12		
(Table L) Four squadrons, at each (Table IL)	-	-	8	16	32		
Total -	-	1	10	22	44		

. . . .



DETAIL of Horse and Field rifled Muzzle-loading Batteries.

	Y.	Fie	ld.		V.	Fie	ld.	Marinelline	V.	Fie	1
Officers and Men.	R.H.	16- pr.	9. pr.	Horses, Saddlery, and Harness.	R.H	16- pr.	9. pr.	Equipment.	R.H.	16- pr.	
OFFICERS. Horse and Field - Major - 1 Captain - 1 Lieutenants - 3 AssistSurgeon 1 Veterinary-Sur- geon - 1	7	7	7	RIDING. Officers Staff-Serjennts Non-Com.Officers Farrier Shoeing Smiths- Trumpeters Gunners Scare	15 2 12 1 3 2 56 6	*8 2 2 1 1 1 2 4	a landetes de	OEDNANCE. Rifled M.L. guns CARRIAGES. Gun Ammuni- tion .	6	6 6 6	and a state of the
Non-Commis- sioned Officers and Men.		and and		Total - DRAUGHT.	77	30	30	tion - general service store and forge	8	3	
Serjeant-Major - Quartermaster Serjeants - Corporals - Bombardiers - Ganners -	1 1 6 6 70	1 1 6 6 8 7	1 1666 72	Guns	36 36	48	36	* Total - AMMUNITION. Rounds per gun	15	15	and
Drivers	70 2	10 94	18 22	Spare	18 12 179	18 10	18 8 128	ARTIFICERS' Collarmakers, set		ois.	
ARTIFICERS. Farrier - Shocing Smiths - Collarmakers Wheelers Totals -	1 5 2 2 179	1 4 2 2 198	1 4 2 2 172	SADDLERY, SETS. Officers - Non-Com.Officers and Gunners - HARNESS. Double { lead - sets { wheel -	-	6 22 42 20	6 22 30 19	Farriers 2 bait Smiths 1 bait Wheelers 1 bait MATERIALS FOR REPAIR Collarmakers Smiths and Wheelers 3 month			th B

SMALL ARMS.

	R.H.A.	Field.					
Arti	h.n.a.	16-pr.	9-pr.				
Compl	ete with	cleaning	rods	-	12	12	12
Carbines, rifled B.L.	of Sw	ord bayon abbards for	ets	-	, -	86	71
Tour es.	l sci	abbards for	r - 1	-	-	86	71
Caps, snap, complete -	-	-	-	-	12	12	12
Swords, cavalry -	-		-	-	107	37	37
Scabbards, for ditto -	-	-	-	-	107	37	37
Wrenches, nipple, with cram	p -	-	-	-	6	6	6

All repairs to arms that cannot be performed by the battery artificers are to be earried out in accordance with clauses 38 and 180 Army Circulars, 1870, any materials required being specially demanded by the corps executing the repairs.

		Num	ber.
Articles.		R.H.A.	Field.
Service.			
Cartridges, S.A. ball B.L. 577 for Snider rifles	- "Ilef -	240	240





11

SMALL ARMS.

Articles.	Com- pany.	Field Park.	4 Co.'s and Field Park.	Remarks.
Garbines, rifed B.L {Complete, with cleaning rols parts of sword bayoncis Scabbards for exarpy Wenches, uplay, with ramps (Garbines, rifed B.L {Complete with cleaning rols Wenches, uplay, with ramps (Garbines, rifed B.L {Complete with cleaning rols (Garbines, rifed B.L {Complete with	4 9 4 26 26 26 155 155 155 155 155 155 155 1 8		16 16 16 127 127 620 620 620 620 620 620 620 620 620 620	}To pack drivers.

All repairs to arms that cannot be performed by the company artificers are to be carried out in accordance with clauses 5s and 180 Army Circular, 1870, any materials required being specially demanded by the corps executing the repairs.

ROYAL ENGINEERS. Pontoon Troop.

12

DETAIL OF One Pontoon Troop.



SMALL ARMS AMMUNITION.

Cartridges, S.A. ball, B.L. 1577, for Snider rifles - - -

No.

- 2,650

13 ROYAL ENGINEERS.

DETAIL OF **One Telegraph Troop.** WAR ESTABLISHMENT.



Articles.		t Half Left Half roop. Troop.	One Troop.
Carbines villed R.L	sword bayonets scabbards for	33 (22 33 (22 33 (22 33 (22 33 (22 33 (22 33 33 (22 33 33 33 33 33 33 33 33 33 33 33 33 3	125 125 125 125 125 125 125 125 125 157 14

All repairs to arms that cannot be performed by the troop artifleers are to be carried out in accordance with clauses 38 and 180 Army Circular, 1870, any materials required being specially demanded by the corps exceeding the repairs.

SMALL PARM	ex.mon	10 Mi	TION		
Articles.			Right Half Troop.	Left Half Troop.	Total for One Troop.
Cartridges, S.A. ball B.L. '577 for Snider rifles		-	1,260	1,240	2,500

A Half Troop to be attached to an Army Corps

ARMY SERVICE CORPS.

14

.

These Companies are calculated on a footing which will allow of their being divided at once, upon entering upon active service, into two companies each, and to be augmented with rank and file and horses locally, or otherwise as may be found expedient, there being sufficient trained officers and non-commissioned officers in each company for the purpose.

ESTABLISHMENT OF A COMPANY	or TEA	NSP01	IT.	ESTABLISHMENT OF A O OF SUPPLY.	Com	PANY
		Ho	rses.			
Establishment.	Nos.	Riding or Draught.	Dranght.	Establishment.		Nos.
Deputy Commissary	1 2	1 2		Deputy Commissary Assistant Commissary		1
Officers • • •	3	-	-	Officers -	•	2
ind-class Staff Serjeant acting as Com-	1	1	-	1st-class Staff Serjeants		8
pany Serjeant Major. ard-class Staff Serjeant acting as Com-	1		-	2nd-class Staff Serjeants	-	8
pany Quartermaster Serjeant. ird-class Staff Serjeant acting as Com-	1	-	-	3rd-class Staff Serjeants		8
pany Wheeler Serjeant. ird-class Staff Serjeant acting as Com-	1	1	-	Serjeants		12
pany Farrier and Carriage Smith. rd-class Staff Serjeant acting as Com-	1	-	-	Corporals	-	10
pany Saddler Serjeant. Serjeants	7	6	-	2nd Corporals -		10
orporals acting as Wheeler	7	=	=	Buglers		1
Baddler	1	-	1	Privates		77
Carriage Smith	5 4	-	-			
Rank and File Shoeing and Carriage Smiths.	3	-	-		1	
Crumpeter	1100	1	79			
All Ranks	133	12	79	All Ranks -		123
Horses	91	-	-			-

MEDICAL DEPARTMENT. Field Hospitals are formed to contain 200 beds. Such a Field Hospital is composed of the following,— Personnel, Medical Officers - 7 Captain of orderline - 1 Hospital wargons : : 4 Surgery do. : : 2 6 : 1 : 13 13 49 . 57 Army Hospital Corps Men Horses - - 24 Stoward (Serjeant-Major) -Assistant-Stoward (Colour-Serjeant). Storkeepers (Serjeants) -Cooks (Serjeants) -Assistant Cooks (Privates) de 10 10 10 MEDICAL DEPARTMENT with an ARMY CORPS. Medical Othere officers officers officers officers bight Drivers' Armelance Ambridance Ambridance Ambridance General Service Regross Draught Horses. Total Cavalry Brigade. 17 17 37 17 47 48 88 57 17 6 Ambulances 1 Field Hospital 6

15

.

Total Cavalry Brigade	•		11	1	12	54	29	95	17	6	23	\$8
Infantry Brigade.												
Ambulances	:	•••	4 15	- 2	$\frac{4}{16}$	27 74	27 24	58 114	27	12	27 13	54 48
Total Infantry Brigade	-	•	18	2	20	.101	51	172	27	13	39	102
Division.												
2 Infantry Brigades	•	*	36	4	40	202	102	344	54	24	78	204
Divisional Ambulances	:	:	12 25		12 28	$\frac{22}{130}$	22 42	58 200	23	. 21	22 21	44 84
Total Divisional Medical Depa	rtment	-	37	3	40	152	64	256	22	21	45	128
Grand total	•	-	73	7	80	854	166	600	76	65	121	832
Army Corps.							1					
5 Divisions			219	21	240	1,068	498	1,800	228	135	363	996
Cavalry Brigade			11	1	12	54	29	95	17	6	23	, 58
Corps Ambulances 13 Field Hospitals Sanitary Detachments -	÷		14 11 12	0.10	14 13 18	23. 56 1,000	25 18	00 87 1,018	23	9	23 9 —	46
Total Corps Medical Depart	ment		87	8	45	1,079	41	1,165	23	9	32	83
Grand total			267	30	207	2,195	568	3,060	268	150	418	1,186

1: 17

00

			No	mber.		St	taff Clerks		Sec.	Her	rses.		
			Au	moer.	1st Clas	s. /2	nd Class.	Sr	d Class.	no	aça.		
Major-General (Brigade Major Aides-de-Camp	Comma	anding	:	1 1 1	11		Ξ		1		5 5 5		
	Total	-	-	8	-		-		1		u		
The second s		sua	A Br	IGADE	of CAV				(Jarrisg	NOR.		
	Officers.	Non-Commis- sioned Officers and Men.	All Ranks.	Officers' Chargers.	Troop.	Transport.	Total.	Gums,	Carts. Small-Arm Amound.	tion Carts.	Wagons, Waeons	Pergo	Ar and Gan at
aff ogiments sattery Horse Artillery edical Department terinary	\$ 957 199	1 1,866 172 83 83	4 1,959 179 95 5	11 273 15 12 4	1,440 164	132 58	11 1,845 179 70 4	a	111		- 3	8 1	
terinary " - aplain's " - ntrol " -	1	26	1 28	1 3	Ξ	26	1 29	-	3 -				1

16

DETAIL of the STAFF of a BRIGADE of INFANTRY.

-32

24-

	1		Staff Clerks.		Therein
	' Number.	1st Class.	2nd Class.	Srd Class.	Horses.
Major-General Commanding - Brigade Major	1 1 1	Ξ	Ξ	<u> </u>	533
Total	3	2 - 11		1	11

A BRIGADE OF INPANTRY.

		. 6			Ho	rses.				Carr	iages			10
	Officers.	Non-Commis- sioned Officers and Men.	All Ranks.	Officers' Chargers.	Troop.	Transport.	Total.	Gems.	Carts.	Small:Arm Ammuni- tion Carts.	Ambulance Wagons,	Wagons,	Porge Warons.	Total Carriages.
Staff 5 battalions Medical Department Veterinary Chaplain's Control State Control State Staff St	3 93 20 1 1 1	1 3,198 152 26	4 3,291 172 1 1 27	11 50 12 9 1 2	IIIIII		11 174 114 2 1 34	HHH	1 27 91	111101	11411	-1512 - 7	11111	51 39
	119	3,377	3,496	58	-	278	336	-	29	9	27	84	-	99

* Includes transport for Brigade Staff.

	Number.		Staff Clerks.		Horses
		1st Class.	2nd Class,	3rd Class.	Horses
Lieutenant-General Command- ing.	1	-	-	-	6
Aides-de-Camp · · ·	2	-	-	-	6
Assistant Adjutant and Quarter- master Generals.	2	-	9	3	6
Deputy Assistant Adjutant and Quartermaster General.	1	-	-	12	3
Lieutenant-Colonel Royal Ar- tillery.	1	-	-	1	3
Adjutant, Royal Artillery .	1	-	-		2
Lieutenant-Colonel, Royal En-	1	-	-	1	3
Adjutant, Royal Engineers .	I	-	-	-	2
Assistant Provost Marshal •	1	-		-	1
Principal Medical Officer -	1	-	-	1	3
Staff Veterinary Surgeon -	1	-	-	-	2
Assistant Controller	1	-	-	1	2
Senior Chaplain	1	-	-	-	1
Total	15	-	2	6	39

	3				Hor	908.					Carri	inges			T
-	Officers.	Non-Commis- sioned Officers and Men.	All Ranks.	Officer's Chargers.	Troop.	Transport.	Total.	Guns.	Carris.	Small Arm Ammunition carts.	Ambulance Wagons,	Wagous.	Forge Wagons.	Spare Gun Carriages.	CONTRACTOR I
Staff (Division) - · ·	15	8	23	39	-	-	39	-	_	-	1	1			
2 brigades of Infantry	238	6,754	6,992	116	-	556	672	-	28	18	54	es			
1 battalion of Rifles · ·	31	1,066	1,097	10	-	48	58	-	9	3	-	5	-	_	
1 regiment of Cavalry · ·	31	623	653	91	450	44	615	-	-	-	-	10	1	-	
3 batteries of Field Artillery (19-pr., 215-pr. batteries).	21	547	508	24	412	-	436	18	Ι.	-	-	24	3	-	
1 Infantry and Artillery Re- serve Ammunition Column.	6	205	212	7	246	-	253	-	-	29	-	21	3	2	
1 company Royal Engineers -	5	196	191	10	38		45	-	-	-	-	6	-	-	
1 troop Military Police -	2	73	75	-	65	-	65	-	-	-	-	-	-	-	
Medical Department	40	216	256	20	-	128	148	+	-	-	22	21	-	-	
Voterinary " · ·	-	20	20	-	-	-	-	-	-	-	-	-	-	-	
Chaplain's " · ·	1	-	1	1	-	-	1		-	-	-	-	-	4	
Control " · ·	7	61	68	12	-	50	62	-	5	-	-	10	-	-	
Total	397	9,759	10,156	330	1,239	825	2,395	18	72	50	76	165	7	2	

17 DETAIL of the STAFF of a DIVISION. 18

DETAIL of the STAFF of an ARMY CORPS.

			Staff Clerks.		Horses.
April a star star star	Number.	1st Class.	and Class.	3rd Class.	101000
	1	-	1 200	in - with	8
General Commanding - ·	1	12 20 20	1	10 -0.07	12
Aides-de-Camp · · ·		- 8	2	2	8
Deputy Adjutant and Quarter- master Generals. Assistant Adjutant and Quarter-	2	-	2	2	6
master Generals.	9	-	-	-	6
Deputy Assistant Adjutant and Quartermaster Generals.		Part of the Part o		-	5
Brigadier-General, R.A	1 1	-	-	1. 1. 1. 1. 1. 1.	3
Brigade Major, R.A	1	-		I Star	
Aide-de-Camp, R.A	1	-		-	3
Colonel Commanding, R.E	1	- 1	-	-	5 .
	1	-	-	1	3
pullano prafor, men-	11.	-	-	-	3
Aide-de-Camp, R.E	0		1		3
Commandant at Head Quarters			-	-	2
Provost Marshal	1			-	
Principal Medical Officer -	1	1	1		2
Chief Staff Veterinary Surgeon -	1	-	-	1	2
Principal Chaplain	1	-		-	-
Deputy Controller · ·	1	-	1	-	3
Total	23	2	6	7	77

		(age)			Hot	r808.					Carris		and the second	1	
-	Officers.	Non-Commis- sioned Officers and Men.	All Ranks.	Officer's Chargers.	Troop.	Transport.	Total.	Guns.	Carts.	Small Arm Ammunition carts.	Ambalance Wagons.	Wagous.	Forge and Store Wagons.	Spare Gun Carriages.	
taff (Army Corps) Divisions	23	15 29,277 2,151	38 30,468 2,271	77 990 319		 2,478 216	2,139		216 3	- 150 -	 2233 17	 480 49	- 27 4	-	 1,116 78
orps, Artillery : *Regimental Staff 3 batteries Horse'Artillery 2 field batteries (16-prs.) rmy Corps Ammunition Reserve, in 3 divisions.	6 21 14 15	2 516 382 516	6 537 396 534	11 45 16 21	 492 292 528	1111	11 537 308 549		1111	1111	1111		- 6 4 9	0111	27 18 105
horpe, Euglineers i- Floorimental Staff 1 company, & Field Park 1 Pontoon Troop - 4 Tolegraph Troop Troop Military Police Medical Department - Veterinary - Pathan - Statery Train Satety Train -	2 6 9 6 2 45 10 1 26 2 6 2 10	1 209 313 143 73 1,120 40 	3 215 323 149 75 1,165 50 1 303 272	5 12 18 12 	- 79 225 90 63 		5 91 246 102 65 112 29 1 214 201 11,863		11111155	11111111				111111111	15 51 12 - 52 - 51 53 1,515
1 A 1 L	djutan SeutC	1.200	R.H.A. .A. .R.A.	1,627	7,005	† 1 1 	Lieut Adjut Total	-Co tant	lors, R.	el, R.E E.		P	100	1 4	

19 ARMY CORPS.

The following Table shows the same Army Corps, the Num-bers being arranged so as to show more clearly the proportions of each Arm of the Service.

	Offi	cers.	Non-Com- missioned	All		
	Combatant.	Non- Combatant.	Officers and Men.	Ranks.	Horses.	Guns
Staff and Departments.						
Army Corps	19	- 88	1,722	1,829	625	-
3 Divisions 1 Cavalry Brigade	30 S	159	915 118	1,104	750 115	-
6 Infantry Brigades	18	138	1,074	1,230	972	-
Total Staff	70	408	3,824	.4,206	2,462	-
	4	79	1000	2201755	212	1
Infantry.	Con las		12.37	100		1
21 battalions	588	1 63	22,385	23,037	1,218	-
	6	51	13	1	1000	133
Cassilry.			1	1.15		
5 regiments attached one to each Division.	81	12	1,866	1,959	1,845	-
1 brigade (3 regiments)	81	12	1,865	1,959	1,845	-
Total Cavalry	162	26	3,738	3,918	3,620	-
	1	86	10000	11863		
Artillery.	The Avenue		No. 1	1	1 1 1 1 1 1 1	
Regimental Staff	4 5	1 2	172	179		1 7
Artillery (S batteries in reserve -		1000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1. 1. 1. 1. 1.	
	15	6	516	537		
Field Divisions. Artillery 2 batteries in reserve-		1	A REAL PROPERTY	390	10.000	9 498
3 Infantry and Artillery Reserve-	10	6	383 618	630		
Ammunition Columns	12	6	516	554	546	
serve.	12		010	001		
Total Artillery -	103	42	3,847	3,995	3,65	1 9
Engineers.		145	THE REAL		-	
\$ companies, attached one to each	15	-	558	573	1 18	8 -
Division.		140		1 3	10000	5 -
Regimental Staff	6	1 =	209	21		
1 troop, Ponteon Train -	. 6	3	813	32		
A Telegraph Troop	- 3	\$	143	14		
Total Engineers -		6	1,224	1,26	2 58	2 -
Military Police.	2000	38	E W.S. Fre	A S		
s troops, attached one to each Di	. 6	- 1	219	22	5 19	5
vision. 1 troop attached to Head Quarter	ns. 2	-	73	7	5 6	5
Grand Total of Army Corp	963	537	85,805	50,90	5 11,80	3 1

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			20 DET/	AIL OF	AN	ARM	TY COL	RPS					DI	TAI	l of	AN	AR	MY	COI	21 RPS									
		sus		4			Hor	805.				agous	fagons ment).		-juna	s and Fools.			riages.	*		18.	-	Vagoon.		12.2		ns.	
	Officers.	Non-Com. Officers and Men.	Drivens.	Total, all Ranks	Guns.	Dranght.	Riding.	Pack.	Total.			Ambulance Wage	Ammunition Wa	General Service Wagons,*	Small Arm Amm tion Carts.	Carts for Stores and Intrenching Tools	Forge Wagons.	Store Wagons,	Spare Gun Carr	Water Carts.	Office Wagons.	Pontoon Wagor	Trestle Wagon	Printing Waron	Wire Wagons.	Steam Ovens.		Bread Vans, Butchery Wast	Total Carriago
Staff. Staff of Army Corps Control Department attached to Head Quarters.	23 5	15 16	13	38 34		26	77 11		77 87	1	T			6		i		1.1.1.1											i
A Brigade of Cavalry.	28	31	13	72		26	88		\ 114			1		6	·	1	•	-								1			7
Staff 1 Battery Horse Artillery 3 Regiments Medical Department Veterinary Chaplain's Control ,	3 7 93 12 2 1 2	1 102 1,800 54 3 13	70 66 29 13	4 179 1,959 95 5 1 28	. 6	102 132 58 26	11 77 1,713 12 4 1 3		11 179 1,845 70 4 1 29			· · · · · · · · · · · · · · · · · · ·	·6 · · · ·	1 30 6 5			1 3	:1											.9 33 23 8
1st Division.	120	1,973	178	2,271	6	318	1,821		2,139			17	6	42	-	3	4	1	· _		1	-					-		73
Staff 1st Brigade {Staff 3 Battalions 2nd Brigade {Staff 3 Battalions 1 Regiment of Cavalry- 1 Battalion of Rifles 3 Field Batteries {1 9-pr. 2 16-pr. 1 Infantry and Artillery Reserve Amaunition Column. Company Royal Engineers 4 Troop Military Police 4 Medical Department	15 3 93 3 93 31 31 7 14 6 5 2 80	8 1 3,126 600 1,042 103 236 85 170 73 354	.72 .22 24 62 146 121 16	23 4 3,291 653 1,097 172 396 212 191 75 600	· · · · · · · · · · · · · · · · · · ·	144 144 48 98 248 230 32 332	39 11 30 571 10 30 60 23 14 65 44		39 11 74 111 174 615 58 128 308 253 46 65 376	41	¥		· · · · · · · · · · · · · · · · · · ·	15 15 10 5 1 2 14 6 45	9 9 3 29	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •						· · · · · · · · · · · · · · · · · · ·	*********	· · · · · · · · · · · · ·			51 51 11 17 9 18 55 6 121
Veterinary ", Chaplain's ", †Control ,,	2 3 9	20 58	55	22 3 122	•	: 114	4 3 16	• • •	4 3 130			1		24	:	: 9	••••	• • •	• •							• • •			33
2nd Division.	397	9,003	756	10,156	18	1,434	961		2,395			76	25	137	50	72	5	4	2 1		-	-			-	-			372
Staff - Shaff	15 3 93 3 93 31 31 7 14 6	8 1 3,126 1 3,126 600 1,042 103 236 85	72 72 24 62 146 121	23 4 3,291 653 1,097 172 396 215	· · · · · · · · · · · · · ·	144 144 44 48 98 248 230	39 11 30 11 30 571 10 30 60 23		39 11 174 11 174 615 58 128 308 253		1-		· · · · · · · · · · · · · · · · · · ·	15 15 10 5 1 2 14	9 .9 .3 29	· 27 27 · 9 ·	· · · · · · · · · · · · · · · · · · ·	•••••••								*******			51 11 17 9 18 55
1 Company Royal Engineers - 1 Troop Military Police - Medical Department - Veterinary , - Chaplain's , †Control , -	5 2 80 2 3 9	170 78 354 20 58	16 166 	191 75 600 22 3 122		32 332	14 65 44 4 3 16		46 65 376 4 3 130			76		6 .45 .24															6 121
* Includes Brigade Modies		9,003		10,156	18		961 Departm	•	2,395	1		76	25		50 ee Wage the Tr	72			2 1			-	• •			-	•		372

22 Detail of an Army Corps													Drom			ARM	er Cu	DDE.		23	ed								
	•]	-		DEIA		AA A	Horse				(-	1	st).		-tu	nd sis.	ii ca	11-5-				1	gou.		1	T			
1	Officers.	Non-Com. Officers and Mcn.	Drivers.	Total, all Ranks.	Guns.	Draught.	Riding.	Pack.	Total.			Ambulance Wagom	Ammunition Wag (R. A. Equipmen	General Service Wagons.*	Small Arm Ammu tion Carts.	Carts for Stores a Intreaching To	Forge Wagons.	Store Wagous.	Spare onn carrie Rocket Carriaces	Water Carts.	Office Wagons.	Pontoon Wagons. Trestle Wagons.	Photographic Wa	Printing Wagon.	Wire Wagons.	Baking Vans.	Bread Vans.	Butchery Wagon	Total Carriages.
3rd Division,	0	X	<u>A</u>	Ĥ	0	A	A	A	4	- 1	-	4	4	0	8	8	Po	55		1	0	4 6	A	A	Fa	PA	1 4	A F	-
Staff	15 3 93 3 93 31 31 7 14 6	8 1 3,126 1 3,126 600 1,042 103 236	72 72 22 24 62 146	23 4 3,291 4 3,291 653 1,097 172 396		144 144 48 98 248	39 11 30 11 30 571 10 30 60		39 11 174 11 174 615 58 128 308					.15 .15 10 .5 1 2	.9 .9 .3 .29	· 27 27 ·9 ·	· · · · · · · · · · · · · · · · · · ·							• • • • •		:			51 . 51 . 51 . 11 . 17 . 9 . 18 . 55
Amanuality and a runnery accerve Amanualiton Column 1 Company Royal Engineers - 1 Troop Military Police - *Medical Department - Veterinary " - Chaplain's " - †Control " -	6 5 9 0 9 3 9	85 170 73 354 20 58	121 16	212 191 75 600 22 3 122		230 32	23 14 65 44 4 3 16		253 46 65 376 4 3 130				7	14 6 .45 24	29	• • • • • • • • • • • • • • • • • • • •		1	2 1		10000							· · 1	6 121 33
Corps Artillery.	397	9,003	756	10,156	18	1,434	961		2,395	A.	X	76	25	137	50	72	5	4	2 1		-			·	· -			. 3	372
Regimental Staff 3 Batteries Horse Artillery 2 Field Batteries Army Corps Ammunition Re- serve, in 3 Divisions.	4 21 14 18	2 306 236 255	210 146 261	6 537 396 534	18 12	306 248 480	11 231 60 69		11 537 308 549				, 18 12 ,	3 2 90			. 3 2 6	2										12	27 18 105
	57	799	617	1,473	30	1,034	371		1,405		1 ma		30	95		12	11	8	6.									. 1	150
Corps Engineers. Regimental Staff - 1 Company and Field Park - 1 Troop Pontoon Train - 1 Telegraph Troop -	2 6 9 6	1 175 163 79	34 150 64	8 215 322 149		70 208 68	5 21 38 34		5 91 246 102					in :		• • • •	: 1 1	5 9			1	20 4		1.	• • •	0.000		. 23	14 31 11
	23	418	248	689		346	98		444					11			2	7	1		4	20 4	1	1	6 .				58
1 Troop Military Police -	2	78		75	1		65		65			1.																	
Control Department. Attached to Corps Artillery and Engineers. Bakery Train -	2	13 [139	13 79	28		26 (158	3		29 170					5	1.	3				. 7		•					. 14		8 43
Butchery Train Officers, staff, and spare Horses for 5 Companies of Transport. Officers, staff, and spare Horses	} 2 15 4	1 37 153 13	79 15 55	} 272 223 18		{ 30 110 2	1 32		31 142 6	- 1	1.			.5		5.	io	• •							• •				10 15 1
for 2 Companies of Supply	23	355	163	541		326	- 4	-	378	1	- States	-		. 15	11/2013	9	10			7				-		3 14	14	5	77
Medical Department Veterinary n Chaplain's n	45 10 1	1,079 40	41	1,165 50 1		82	30 20 1		112 20 1			23	· · · ·	9		· · · ·					1. 2. 4. 14								32
Grand Total	1,500	31,777	3,528	36,805	90	6,434	5,429		11,863		tant	268	111	589	150	229	42	28	12 3	3 7	4	20 4	1	1	6 3	3 14	14	5 1,	,513

	DETAIL OF AN ARMY CORPS												ARRANGED BY ARMS OF THE SERVICE.																			
		m.Offk	1	all Rank	1	11	T Fel	1					8.8	ion (R. A.	Service	m Am-	Stores trench-	i Store	gons.	n Car-	rriagos	rts.	Vagous	agoms.	phile	Wagon	robs.	etts.	NUN			
	Officers.	Non-Com,Offic and Men.	Drivers.	Total, :	Guns.	Dranght.	Riding. Pack.	Total.					Wagon	Ammunition Wagons (R., Equipment).	General Service Wagons.*	small Ar munitio	Carts for Stores and Intrench-	Verge all	Store Wag	pare Gun riages.	Rocket Carr	Water Cart	Pontoon W	Trestle Way	Photogra	Printing	Wire Wago	team Oven	Baking Vans Bread Vans	Butchery	Wagons, Total Case	
Staff.	23	15						-			1		1		1		Ī	-	00	00	HI			1	-	-	P	18	A 14	-	1	-
Staff of Army Corps	45 3 18	24 1 6		38 69 4 24	:		77 117 11 66	77 117 11 66		1		r		1				:		•••	:	-						:				
Total Staff	89	46		185	1		271 .	271					-	-			•	÷	-	-				-		-		-				-
Infantry. 21 Battalions	651	21,882	504	23,037	. 1,	008	210 .	1,218			13		-		207	-	1								-	-					-	-
Cavalry. 3 Regiments attached one to each Division.	15	1,800	68	1,959		132 1	,713 .	1,845					1		105	63	189		-	-					+-	-	-			+		7
1 Brigade (3 Regiments)	\$3	1,900	66	1,959	-	132 1	,713 .	1,845			No.				50 30		:	3	•	•			:			•		:			1 12.53	13
Total Cavalry · · · · · · · · · · · · · · · · · · ·	198	3,600	132	3,918		564 3	.426	3,690			- AL		-		60		1	6	-	-					-	-	-		÷		-	13
	47	2 102	70	6 179	Ġ	102	11 :	11 176							.1			i														
Regimental Staff Horse Artillery (1 Battery attached to Cavalry Brigade, 3 Batteries with Corps Field (9 Batteries attached to Dersions,	21 63	306 1,017	210 624	537 1,704	18 54 1,	106 108	231 270 :	537 1,308						6 18 54		1	1	1 3 9	1	:	:	:		1:		•	:	:	: 1		1000	9 7
Pield Printeries attached to Divisions. 2 Batteries with Corps - 3 Infantry and Artillery Reserve Ammunition Columns.	14 18	238 255	146 363	396 636	12	148	60 60 :	308 759						54 12 21	9	:	1	61 10 0	9	:	•			1:				:				8
1 Army Corps Ammunition Re- serve.	18	255	261	534		150	60 .	549		¥	1	¥	1	21	42	87	1	3 6	3	6	5	:	:	1:		:	:	:			1 16 10	
	145	2,173 1	1,674	3,992	90 2,	864	787 .	8,651					-	- 111	147	87		24	21	12	8		-	-	-		-				- 400	
Engineers. 3 Companies attached one to each Division.	15	510	48	578		96	42 .	188					-		18							==										=
Division. Regimental Staff 1 Company and Field Park with Corps.	86	1 175	34	3 215	2000	70	5 21 :	5 91							iı										i	i					15	Se la
Corps. Troop, Pontoon train Half Telegraph troop	9 6	163 79	150 64	329 149	· _	68	38 34 :	946 102						-			:	1	5 9			. 1	20	4			÷				31	ner's
Total Engineers = Military Police.	38	928	296	1,962	-	211	140 .	582							29			2	7			_	20	4	1	1	6				76	IME
3 Troops attached one to each Divi-	6	219 73	•	225. 75			195 . 65 .	195 65																								
1 Troop attached to Head Quarters -	8	292	5	300		:	200 .	200					-		-		1.2	<u> </u>		•					-							
Control Drpartment. Head-Quarters Army Corps 3 Divisions	5 27	16	18	34 366		96 42	11 .	37					-		•		-	-				-		-	-				-	-	-	-
Head-Quarters Army Corps - 3 Divisions and the second sec	10 10	16 174 18 18 189 37 153	165 13 18 79 15 55	28 28	:	205 205 58	11 · 48 · 3 · 12 ·	37 390 29 29 170 31							7915	-	1 27 23 23			-		:			***	-			1	• • •	90 90 8	
Butchery Train - Additional Officers, Staff, and spare Horses for 5 Companies of Trans.	2 { 15 {	37 153	15 55	279 223	1	30 10	12 · 1 · 32 ·	170 31 142					-	-	5. G	-	3 •5	: 10		:							• • •	\$ 14		• • • • • •	8 43 10 15	
port. Additional Officers and Staff of 2 Companies of supply and spare	4	13	1	18		2	4 .	6	F.S.S.		K	•	1		°	•		10		•		1	1			1				•		1.
men.	57	558	354	909		20	114	834					•	· .	-		1	•		· _		-	•	-	-	•	•	-		•	1	
Medical Department			-					111			1			-		•	40	10			. 7	-	-	-				8 14	14	5	191	
Veterinary "Chaplain's "	297 18 11	2,195	568	3,060 121 11	: 1,1	86	174 · · · · · · · · · · · · · · · · · · ·	1,310 36 11					208	-	150		•						1								418	
Grand Total 1,	500 8	1,777 8,	,528	36,805	90 6,4			1,803					205		589	150		43		•	•		- 20	-	· -	. 1	6 3	3 14	- 14			
		2.5	2322	1.15	TRANK								1					-		-			te pag	1000	1	1	° ·	0 14	10	<u> </u>	1,513	

LONDON : Printed by GEORGE E. EYRE and WILLIAM SPOTTISWOODE, Printers to the Queen's most Excellent Majesty. For Her Majesty's Stationery Office. [4774.-3800.-7/75.]

2P. 19/2a / a I have considered the paper sent we If the Scale laid down in page 15 of the Inciden of Aug' 1075 he retained, the distribution & arrangements laid down in the accompanying hapen appears to me the Cert that can be levised. It is practicable, while that at p. 15 the not of no which The whole medical price is with the long (ope, is not

ZP. 19/26 aa.

With negard to the arrangements on the live of march The point occurs to nee - of all freezons the 2nd portrai of the Fulit Anpulats, or Fulit Huffer in 20 milis " read If the any marching be handed are to the officer in charge of the organisation of the line of communications, with not the 3? protesi of Field Hapilats practically become 42 Intermediate Hospitals - that is, It's filate between The Fulit Hopetale, properly 10 called, and the Second Hopetal at the base of operations. If netermediate hospitals, They with a fenne more a lep a permanent character, 2 if wanted in the talk, might ud be a ready obtainable. Intermediate Hospitals regrue some desperences ni equipment Jun Fuld Hospitals .

Surmally I do not see any objection to their becoming convertest into Thetermodisete Hospitals, as the number with the long cops moving in the field appears to the unneefends the long cops moving in the field appears to the anneefends have , but meder puck encounstances be as I un'agine large, but meder puck encount for the dry Caps there they would be better remained for the dry Caps

IP. 19/2c 14 hence there 4 \$ Samilary Delach & worky with the Any Corps & the bearers who each the wounded in the ranks Delach? worky with the should carry them to the Bandaging place, n 14 2 2 of the Delachment. But how could to many handapy places to isfamored at which I presence to be the sunce to a dupy station, be organised? At a dupy's station, the must Merchong hupand a finlants, de . Henre Canitan This can be my accomplexited by lifering the number of Sanitary Delactimitation tret making this as anization more complete. At present of enquired' into from it will be forme the organisation is very m'complete.

The lerin " Ambulances" is confusing as at present used -sometimes used for "hubrilance Vehicles & sometimes for Ambulance Vehicler, plus medical offer Lotter Oficer, Orniers Le Carmor this be altered ?

My remarks to Coll_Home m his First Scheme

2? By Un arrangement in The paper, Mr heread Tersonnel 2 materiel are so dritutated, that this serve the wants of Mi fighting hui, Lythe space between it & the Fuld Hapitals, With Some Questions arise n'y mind miluding the latter. int ar to some of the details 1. Can ambrilance vehicles be expected to work within the line of the Evening's rifle fire as three in Me 1? live would appear to be ? Should the wounded in them, the gove not be carried on shetcher by bearers & and of to should their hat be provided for? The 2 shilitur in the amb " Wagon will not suffice for it & provide for this ! Bandaping Drefsmig stations have now great n'created in supraince owing to the drilance at which F. H? are usually placed no modern warfare - This opened in wellager & lowis - I the marlanity when the wounded may reach them through places Hen auf this blocked & then thought especial at myth. Inportant to be apple out of grow as well as affer fire & reprice through nomiation By the scheme under orother him an 267 Amber Wagons Tuch San' Octach hay 6 wayon, 3 in the 1" + 3 in this 2" line

ZP. 19/3 Army Medical School. Royal Victoria Hospital. Netley 187

ZP. 19/3

															16					
		James	_ 0	Defic	- 141		_	men				uni	rops -							
Ké		Turnelses & condition	mudued	In charled	Offices & Outstand	Thái Ofran	Uning Magness	annia	Istal Mero	Istal all Romas		J. Sume	^y etal Carriage	Dranfa Herite		Rur	nar	NS.		
1	Espalay Brigade	2	4	1	1	6	62	6	68	44	6		6	12						
9	2nd Line of ambulances	4			1	1	24	12	36	14	12		12	24	F		-	T	-	
5	1 Fuld Hospilal		4		1	ъ	134	12	49	54		6	6	24		Remarks	e	9	-	2
	- Total baraly Brigade	6	11	1	3	15	123	30	15.3	168	18	6	24	60					- Inter	S.
4	1st Lind Janihalantes	3	4	1	1	6	93	9	102	105	9		9	18	chinent.	usered and	3 2		1 mart M	
5	2nd Line of ambulances	6			1	1	36	16	54	55	18		18	36	3	1			-	- num
6	2 Fula Hospitals		14		oz	16	74	24	98	114	312	12	12	48	Det	Large	10	و	1	of earon
-	Lotal Infanding Brigade	9	FI	1	4	23	203	51	254	277	27	12	39	102	ant	- Sump	12	n		
2 al	2 Infantry Brigades 14 Line Privanal Umbulano 24 Line Orrisional ambulano 24 Line Orrisional ambulano 32 Fuld Impitals		56 12 25	2 1	Т 1 1 3	46 14 1 28	406 62 30 130	102 6 15 42	508 68 45 172	554 72 46 200	54 6 15 -	24 21	78 6 15 21	204 12 30 84	etail of a Somili	Chum And	12 Sinua mainer Parts 1 3	1		to in a to a mutual another
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(For private circulation only).

ZP. 19/14

Ebening Meeting.

Monday, May 3rd, 1875.

MAJOR-GENERAL PATRICK L. McDOUGALL, Deputy Quarter-Master General (Intelligence Branch) in the Chair.

ON THE ORGANIZATION OF THE COMMUNICATIONS OF AN ARMY, INCLUDING RAILWAYS.

By Lieutenant-Colonel R. HOME, C.B., R.E., D.A.Q. M.G.

THE subject upon which I am going to address you this evening is a dry one, but its importance is so great, that I feel it requires no apology for being introduced; although I feel that I should apologise for presuming to deal with so large and so complicated a question.

When I was asked to give a lecture at this Institution, I looked through the various subjects that had recently been brought forward, and I found that no one had taken this special subject up. Feeling deeply impressed with its importance, I determined to try and read a paper on it, hoping that other and more competent persons may be induced to follow my lead. Our language is not rich in military terms, and the expression, the organization of the communications of an army, is a clumsy one to express what the Germans call "étappen"-a word which they have taken from the French étape. I know of no English term which expresses what is meant, and therefore I have used a term which was adopted during the Peninsular, our greatest war, for nearly the same thing. By the words, "the organization of the communications of an army," is meant, therefore, not the maintenance or repair of roads, railways, canals, or telegraphs, so much as the organization which enables an army to obtain the greatest benefit from those means of communication.

When an army advances into a hostile country it has to be supplied with food, ammunition, and other stores; it has to receive reinforcements in men and horses from the rear; and it has to send back sick or wounded men and horses from the front. If an Army of moderate

size, say 50,000 men, simply marches 100 miles, without firing one shot, or seeing an enemy, the number of sick that have to be got rid of is very great. Experience has shown that, in a good elimate, with abundant food, easy marches, and fair weather, the waste from ordi-nary causes in a ten days' march of such a force would be between 2,000 and 2,500 men, while the number of galled, foot-sore, or worn-out horses would also be very large. A few wet days or a sharp engage-ment would raise the number of both very considerably. An inefficient man or horse at the front is a positive disadvantage; he can do no work, and he consumes food which is difficult to get, and often occupies the time of a sound man by requiring to be looked after; consequently, if an army is to be kept efficient in front, there must be a stream of men and horses passing along the lines of communication from the base of operations in the rear to supply the waste in front, and a succession of depôts where sick men and horses may be tended, caured, and again sent to the front.

succession of depôts where sick men and horses may be tended, cured, and again sent to the front. Further, an army must be fed, and the magnitude of the operation is what many people rarely consider. The action of an army in the field, its marches and its battles, the lists of killed or wounded are what chiefly strike the eye of the looker on ; when a man is killed or wounded, or even when he is taken prisoner, his loss is chronield; but the man is justas much lost if he dies or is invalided from want of food or medical aid. We read of so many killed, wounded, and prisoners, and of so many guns and standards captured ; but who notices the losses from pri-vations and hardships? Yet the losses from the latter causes, far out-weigh those from the former. We read much of the fight at Magenta and the battle of Solferino. Volumes have been written in which you will find accounts of both in the greatest detail; but we rarely see an account of the suffering endured by the French Army from the 9th to the 17th June 1859; during the first few days, the troops were ordered to live on the peasants, and latterly, although in a friendly country, the order was repeated, with the words added "even to com-plete exhaustion "—words never used except in the direst extremity. We read much of the battles round Metz; of the gallant conduct of the soldiers of two great nations; of the skill displayed by the Generals on this side, of the mistakes made by those on that. We read long lists of killed and wounded, but we hear little of the many human lives lost by fever, cold, hunger, and want round the beautiful city of Lorraine. Few realise the fact that an army requires as much food as a very

Lorraine. Few realise the fact that an army requires as much food as a very large city; each day a large city receives its daily supply of food, there is no stint nor stay for those who can purchase; long custom and gradual improvements have opened up easy means of communication between the consumer and the producer. It is different with an army. An army is a city flung down suddenly in the constry, each day moving, each day requiring fresh alterations in the arrangements by which food is conveyed from the producer to the consumer. Yet this portion of the art of war—one of the most important, if not the most important—receives but scant notice. "War is the art of being "the strongest at any given place," and that portion of the art of

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war that keeps the greatest number of bayonets in the ranks, is surely

war that keeps the greatest number of bayonets in the ranks, is sately not to be despised. It is often asked, why this difficulty about food? The number of mouths in a country is but slightly increased when two armies meet; the total number of mouths in the two countries at war is really diminished. Why then this difficulty? The answer lies here. Sup-pose there are 10,000 bakeries in England, an addition of ten mouths to be fed by each would make but a slight difference, if distributed. But suppose the additional 100,000 mouths all concentrated in one place, and requiring to be fed all at once, the circumstances are altered.

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The Count de Paris has furnished a remarkable calculation on this subject. He says, one road will suffice for only a limited number of carriages, if several roads are available, the number of waggons must be limited, otherwise the army cannot move. A six-horse waggon will carry 2,000 lbs.; and the supply for each man per day, medical stores, ammunition and food included, may be placed at 4 lbs per man

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OF AN ARMY, INCLUDING RAILWAYS.

OF AN ARMY, INCLUDING RAILWAYS. ⁵ important points; protect and patrol the communications; check dis-orders; look after the dispatch of letters; and lastly, be such that with but a short delay, can direct the whole of the vast traffic into another channel, if the movements of the army necessitate this being done. This organisation which the Germans term *etappen*, and which I have paraphrased as the "organisation of the line of communications" "of an army," is that portion of the military art where study and forethought come most into play. It is that portion of the science of war, where the bright scintillations of genius, the sudden inspirations of the haven-born leader, can do little or nothing. But it is on that account the more important; as careful, accurate, painstaking, study, and forethought applied to it, will go far to remove many of the in-determinate causes which mar the most brilliant schemes. In war, there can be nothing absolutely fixed, nothing rigorously machine is composed of many different parts that cannot be made to work for one end, unless they all fit into a well arranged scheme. If all the details of such an organisation be not clearly sketched out, well understood and thought over by every one, no amount of inspira-tion or feverish excitement will make things go straight when the machine is tried.

machine is tried.

machine is tried. I quite concede that such an organisation can only be tried in actual war, cannot be exercised in peace; but granting this, I believe that if the principles of such an organisation be clearly laid down, and the functions of each person well understood by all concerned, the organisation itself will quickly get into working order when wanted. While then rigidity of form is inadmissible, yet it is desirable to have a standard or model, to reach which every exertion should be made, even although such a standard may never be reached. It is very desirable in this matter, as in everything else, to establish some definite and clear principles of organization; details, however im-portant, quickly arrange themselves if the framework or sketch be based on sound principles. The first great principle which I believe modern experience has pointed out, is the division of the whole subject of supply into two great branches.

great branches

great branches. 1st. That which works in rear of the army. 2nd. That which accompanies the army. These two great branches should be perfectly distinct, their functions are different, and the class of men and conveyances to be used, is in each case different.

The function of the first is to look after and forward stores massed in large depôts, and to push them up, as far as possible, after the army. Referring to the illustration of the bakeries in England, it is the duty of the organisation in rear, to seek out, as it were, the food which each soldier would have eaten if he had remained at home, or in garrison, and to send it after him. The function of the second is to bring up the food from the advanced magazines to the divisional depôts, at every opportunity, more especially during halts, and at the same time to seek to utilise The function of the first is to look after and forward stores massed

the resources of the country by requisitions in the immediate neigh-

the resources of the country by requisitions in the immediate neigh-bourhood of the marching troops. It is manifest that the service in rear may be of a semi-civil draracter, the transport may be by rail, hired vehicles, or canals, while the service in the front must be military, and must be performed by bodies having a military organization. As an army advances into a hostile contry; the requisitions in the immediate neighbourhood of the line of march will have, to a certain extent, exhausted the country; one object then of the semi-civil organization following in rear, will be to extend the area of requisitions, and to tap fresh supplies. In very case the furthest advanced point of the department working in rear, should be as near as possible to the army in front, should follow it and keep, if possible, within one or two marches of it, relieving the departs and detachments left in rear, completing any work that may have been done by the advance, strengthening bridges, repairing to the front must, to prevent confusion, be under perfect military to the depart. The should be able to bring up the supplies. The transport working in front must, to prevent confusion, be under perfect military to the devision. The should be able to bring up the supplies from the rear, that is to advise and depart. The the food or supplies have to be carried from those divisional for its within the division, that is to say, the battalions, batteries, or units within the division, that is to say, the battalions, batteries, and the supplices themselves, and a fresh organization is predictive to the regulation of these battalions, batteries, and the supplice the supplies for the supply of the its within the division of the supplices for the supply of the predictive themselves. The supplice the day and the supplices for the supply of the predictive themselves. The supplice the day and the supplices for the supplice the supplices and the supplices themselves in the the supplices that the believes the supplices the supplices the supplices

regiments themselves. Thus we are led to a division of transport into three portions, and I beg, gentlemen, to draw attention to this division, for in it I believe lies the key of success in this branch of the art of war, a division of transport into— Ist. General transport, embracing railway, canal, and road trans-port, working along the line of communication from the base to the next advanced macraine

port, working along the most advanced magazine.

port, working along the line of communication from the base to the most advanced magazine. 2nd. Departmental transport, which shall convey the supplies from the advanced magazine to the divisional depôts. 3rd. Regimental transport, which shall bring the supplies from the divisional depôt to the battalions, batteries, or regiments. Accuracy of detail and economy of power are only to be found in an intelligent division of labour. By such a division of the transport, the smallest portion is that which, having to be always close to the troops on all roads, and even in the fields, must be highly organised and well horsed. The Departmental transport, which need not move so rapidly, and generally moves at night, and always on roads, may carry heavier loads, or, what is the same thing, may use fewer horses, —while the transport working on the line of communication may, if it is not railway transport, be waggons hauled by relays of horses, pressed from the inhabitants and working a stage close to their own homes, thus avoiding the necessity of sending men and horses to the front, and further, relieving the magazines of the task of feeding horses and men so employed. The first description, General trans-

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OF AN ARMY, INCLUDING RAILWAYS. 7 port, must be under the commandant of the line of communications, port, must be under the second description, or Departmental trans-port, must be under the heads of departments—artillery, engineer, and commissariat; and the third, or Regimental transport, must be under the officers commanding regiments. When I say the transport is to be under these different directions, I mean not that the horses detached for any one service are invariably to be so employed, but I mean that these are to be their normal or general duties; it being always dis-tinctly understood that any horse or any man in an army is liable for any duty the General commanding may choose to order. It would French army that the "intendant" was responsible for the supply of food, the commanding officer of artillery for that of ammunition, and train, while the general was responsible for having his own ration. This led to its natural results, the heads of each branch of the service rarely helped one another, and the general, shorn of half his attributes, lost his power. In an army-corps, division, brigade, or regiment, the commanding officer is alone, and can alone of the me. He may, and doubtless must have persons under him responsible to him for carrying out certain duties, but their responsi-blity is to him, and to no one else. Many of the arrangements adonted in foreign armies, and which

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8 ON THE ORGANIZATION OF THE COMMUNICATIONS
The army, far from it; the organization working on the line of communications should occupy the position, as regards the army, that and my-corps dees, that is to say, the officer in command of the communication should hold to the general commanding, the position that a full oble to the general commanding, the position that a full oble to the general commanding, the position that a full oble to the general commanding the position that a full oble to the general commanding, the position that a full oble to the general commanding, the position that a full oble to the general commanding the position that a full oble, there is another on the line of communication, and not being classed or counted as troops the fighting line; similarly, if several army-corps forming an army for the fighting line; similarly, if several army-corps forming an armound or the line of communication. The difference undoubted to caused by the smaller of the difference undoubted to cause by the smaller. The sol fight to endeavour to look after his communication of the cavity fighting batchions in front being thereby weakened. Now in more possible of the sample of the cavity police. We read of constant as the possible of these of hose departments with the army the possible of the storegy in front are never weakened by fighting batchions, its own commission and policies is on plete – it has some and the difference in the solution of the symplete. The site is not being thereby weakened. Now in more place based on the site of the symplete of the symplete of the storegy in front are never weakened by fighting batchions, its own commission and place based are never weakened by a possible of that strength on parade. The advantages of the possible of the termine of the symplete of the symplete

this as regards discipline are enormous—units such as reguments or battalions are not broken up to find garrison for this post or that im-portant railway junction. There is nothing more remarkable in examining from time to time the strength of the Prussian army in France than to see how closely the real strength of each corps corresponded with the regulation strength strength.

The advantages of doing away with detachments is too well known

The advantages of doing away with detacaments is no were hard to require to be dwelt on here. Indeed, if an army were to advance into a hostile country without such organisation, it would soon reach the end of its tether, the fight-ing men in front would be gradually disseminated along the whole line of communication, and nothing would be left in front to meet the enemy with

enemy with. In every army, there are and must be a very large number of semi-military bodies, that is to say, bodies possessing a certain amount of military organisation, and yet whose function is not to fight but to work for those who do. These bodies are invaluable; but in front their presence is absolutely hurtful; in rear their duties are all im-portant, amongst these bodies, are the bakers, the butchers, the great mass of the telegraph corps, the railway corps, and a large proportion of the medical department. Further the protection and guard of the

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various posts in rear may be given to troops, inferior in marching power to those in front, and consequently we are again brought by another set of reasons to the fact that a separate and special organisa-tion is required for the line of communications. Nothing more clearly demonstrates the value and importance of a careful preparation of these details than the Franco-German war. Prussia conquered France, not so much from valour on the field of battle, as by the most painstaking care in every detail. As the Prussian army advanced it drew Prussian civil institutions after it, and the French statement, that France was invaded not by the Prussian Army but by the whole Prussian nation, was literally true. As a general statement, it may be said that the collection of supplies at the base of operations is really the work not of the military leaders so much as of the civil administration of the State. Acting on this idea, Oblentz, Mayence and Manheim were the bases,

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moral power of armies, and I would venture to observe that armies moral power of armies, and I would venture to observe that armies only get more complex, because society itself gets more complex. Because discoveries and inventions introduced into civil life are adopted into armies. Because, in short, men are better educated, and the general standard of knowledge is everywhere higher, consequently moral force, as a lever that sways bodies of men of the size of modern armies is more important now than when Napoleon said it was three times as important as physical force. Nothing tends to preserve moral force in armies so much as well ordered communications. It is moral force, as a lever that sways bodies of men of the size of modern armies is more important now than when Napoleon said it was three times as important as physical force. Nothing tends to preserve moral force in armies so much as well ordered communications. It is not merely that regular supplies of food are brought up, that the men are regularly fed, although that goes for something, but the sick and wonded are got out of sight rapidly. Men's minds are not allowed to dwell on horrors, and above all, the reinforcements coming up from the rear, seeing regularity, order, and strict discipline in the rear of the army, are impressed with the sense of power of the whole machine at work, and spread a healthy tone through the ranks they join. It has often been said, and with great truth that German military institutions have not been tried by defeat, that a concatenation of peculiar events has helped Germany in her great successes. This most undoubtedly is true; but if we examine her military institutions, we shall find that her leaders take precisely this view, and they have striven to produce a system that shall be available in the day of defeat as well as in that of vietory; and nowhere is this anxious care more evident than in the organization of communications. The service working in rear must therefore have a special and separate organization. In Germany (France and Austria have followed German arrangements to a great extent) there is an officer who commands the whole line of communications; his place is with the General commanding, or one march in rear of him, and under his orders he has six distinct branches working. Ist. The route service.

1st. The route service. 2nd. The railway service. 3rd. The field intendance or commissariat. 4th. The field medical depôt.

5th. The route telegraph. 6th. The field post office. Each of these departments has its own head, and each is of a civil, or quasi civil character. Each has its purely military branch in front

front. The telegraph department is a good example of the way in which the civil shades off into the military. It is divided into three distinct branches all under one head. Ist. The State or home telegraphs. 2nd. The route telegraphs along the line of communication, usually a light, overhead wire. 3rd. The field telegraph detachments which communicate with the division and army corps. The latter being under the Generals com-manding, the Director of military telegraphs, deals with them through the generals. As the army advances, the route telegraphs are rapidly laid, and

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OF AN ARMY, INCLUDING RAILWAYS. 11 the first, or State telegraph department follows and completes the work, connecting it with the general telegraph network of the langtom. The Director General of State Telegraphs having as his assistant, or deputy, the Director of Military Telegraphs. Thus there is no attempt to spread the field-telegraph-detachments out along the line of communications; being well horsed, and an entirely military body, their functions are to make a line each day to unite the divisions, a line that must be rolled up and re-made the next day. The route telegraphs are more permanent but less military in their character, the great object being to push the State telegraph as rapidly as possible in rear. Thus by a proper division of labour the actual number of soldier telegraphists is but small, and the money spent by the State on soldiers is thus kept as much as possible to pay for actual fighting men, those who work in rear, being, on account of their prospective service in this way, relieved of a certain portion of the service they otherwise would have to do in the ranks. Men so employed do not require periodical training as soldiers, they do not require more than a distinctive dress and a habit of respect for superiors. I do not now propose to attempt to describe these six divisions or branches of the communications of an army, but I cannot dismiss the second, or that of field railways, without saying a few words on this very important special branch of the subject.

subject. The use of railways has introduced great changes into war, and it is believed that these changes may be summarised somewhat as

follows:--Towed strategically, they have given an enormous power in con-centrating masses of men and horses from the distant portions of a centrating masses of men and horses from the distant portions of a centrating masses of men and horses from the distant portions of a centrating masses of men and horses from the distant portions of a centrating masses of men and horses from the distant portions of a centrating masses of men and horses from the distant portions of a centrating masses of men and horses from the distant portions of the horse means at a secure distance from an enemy in a short time ; but the moment that the distance between two contending armices becomes such that a powerful force must be ready to form in line of battle to moving troops of little value; but for the purpose of supplying troops, and removing sick and wounded, its value is at all times very great. Although universal compulsory service is more than sixty years old, I think we may fairly doubt the possibility of keeping the vast armices Suppose there had been no railways during the recent Franco-German war, I think it is exceedingly doubtful if Germany could have kept 400,000 or 500,000 men in the field. No amount of waggon transport would have fed them in France ; and if such a force had attempted to advance, feeding on the country, it must have spread over so wide a fort to seek subsistence and its power to concentrate would have been diminished to such an extent that its numerical value would have been greatly reduced.'

¹ The invasion of Russia by Napoleon is a case in point. Many writers have

2nd. As means for supplying those armies while operating on the

theatre of war. This division is really that between railways actually in the zone of military operations and outside it. In the former case the military element predominates; in the latter,

the civil.

The former case the military element predominates; in the latter, the civil. The former case the military element predominates; in the latter, the civil. The second state of the Germans term the transfer station. Take, for the set wow. This the Germans term the transfer station. Take, for in the state, the advance march of the Germans from the Rhine towards the Sarre. The Rhine was for some time the dividing line, Mayence, Manheim, and Collentz being the transfer stations. East of these powerful. The object being as the army advanced, to push these transfer stations after it as quickly as possible, they were moved first the Moselle, and subsequently to the Mense, in each case the civil railways of the State extending their field of operations further to the west, and allowing the military organisation to follow the army. The supply on the productions of the country as little as possible. At the same time it is requisite that for a certain space in rear of the army when sole country as little as possible. At the same time it is requisite that for a certain space in rear of the immediate and commerce of the country as little as possible. At the same time it is requisite that for a certain space in rear of the army is bould have complete control over the railways i, hence, a station must be allowing the military description than of the biocks of stores, men and horses were sent from all France to the Army when failed in the set of the army were blocked and useless, the waggons of the word of the army were blocked and useless, the waggons of the word of the really were word, never could be got at the word of the marker blocked and useless, the waggons of the word of the French Army at Le Mans, or in the follow the army and the consequence wanted, never could be got at the batter place nearly 7,000 carriages were blocked together of Metz.

of Metz. At the latter place nearly 7,000 carriages were blocked together in a solid mass; none of the people on the spot knew what the waggons contained—ammunition, food, clothes, arms, intrenching tools, pontoons, and hospital arrangements, being mixed up in a con-fused mass—the power of the railway as a carrying agent being destroyed by its carriages being used as moving magazines. Had a transfer station been used much of this confusion would have been movement prevented.

There is always a tendency to follow the lead of those who have been successful, and consequently since the successes of Prussia, there

carefully examined this great episode, and all agree that no organisation of carts or waggons could have fed so great a force so far from its base, but that a single line of railway would have done so with case.

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or coming from it. These route depôt stations have each a commandant, they are selected after careful consideration, and if plenty of store and plat-form-accommodation does not exist, during peace it is made; at this station the commandant is supreme. Further, in peace time a committee for each line, consisting of the



ing commission. A, B, C, road transport by waggon to the route termini B and C, C D, C E, B F, B G, the lines on which the departmental transport works feeding the Army Corps from the route termini B and C.

traffic manager and a military officer, is appointed. The duties of this committee are the following :—In case a country is planged into war there can be only a limited number of possible contingencies. These contingencies are determined carefully. The route depôt station, and the places to which the troops and stores are to be moved are also determined. The line committee determines, where halts have to be made, where men and horses are to be fed and watered, and on single lines the passing places for trains. These points are all clearly laid down, and every one knows them.

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station. Behind that, all transport is worked as described under the regula-tions prepared carefully beforehand, as much as possible peace-traffic is maintained, and after the first concentration of troops takes place, certain military trains only are run. The points of departure and the point of arrival once fixed, the concentration of troops becomes a simple matter. Beyond York no civil traffic of any kind would be allowed, and a military railway director, with very extended powers, would be appointed to work all the railway traffic north of York, acting, how-ever, always under the orders of the officer in chief command of the communications. But let us carry our arrangements a little further, the Collecting Station, York, becomes then at once a great store.

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The troops as they arrive are pushed through it at once, some by rail, some by road, towards definite points, where each of the three corps coming from Kent, Hampshire, and the Midland counties would be formed. The station at York would be placed under a com-mandant, who would issue orders somewhat similar to the follow-

ing :--"No trains containing military stores are to pass York." "Trains with troops and ammunition may, unless specially ordered,

pass.
"No train will go to the front that is not full."
"All provision trains will be unloaded, except in special cases, when definite instructions will be given."
"All trains coming from the Army will run past York and not stop thom."

"All trains coming from the Army will run past York and not stop there." Meantime, let us suppose that the commissary-general of the army in front finds, or thinks he will find, difficulties in feeding the troops, on account of some flank movement that is going to be made against the Scotch Army. He notifies the commandant of the line of com-munications of the quantity of provisions he is likely to require sud-denly. These are loaded up, formed into trains, and pushed into sidings a few miles north of York, with a small guard which encamps beside them; a telegram from the front brings them on at once. Similarly an action is expected, and hospital trains are formed, placed in sidings, with nurses, medical comforts, and a guard; a telegram brings them to the front at once, and the sick or wounded are carried far past York to the south. North of York the traffic would be entirely military, and worked under a military railway director, who would have under him a proper staff for the purpose, and who would arrange for all the traffic being worked in a regular way. But how far can such traffic be brought up to the front? The answer to these questions depends on many things:— Let. The line, is it destroyed on likely to be destroyed ?

up to the hold. This is the station of the likely to be destroyed? Ist. The line, is it destroyed or likely to be destroyed? 2nd. The nature of the stations available as terminal stations. 3rd. The prospects of a collision with the enemy. 4th. The nature of the roads and the horse transport of the army corps. 5th. The situation of the army as regards the railway, and the

5th. The situation of the army as regards the ranway, and the front it was occupying. But let us suppose a station selected, we will say Darlington, the enemy's army being somewhere in the neighbourhood of Newcastle. Beyond Darlington, railway transport would, except in special cases, cease, and each army corps would have to send its departmental trans-port to Darlington for supplies. Darlington, the route terminas, would be the point where the organisation of the line of communica-tions would cease, it would be the great point where distribution would commence.

Let us suppose, however, a little further, that the railway has been destroyed north of Darlington, and that the enemy, the Scotch, retreat;

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the army advances, and the distance from the route terminus to the corps becomes too great for the departmental transport to work. The officer in command of the communications foreseeing this, and knowofficer in command of the communications foreseeing this, and know-ing the direction the army is marching in, fixes a fresh route-terminus and establishes a line of horse transport from the railway-terminus. Darlington, to the points he has selected, to these points the depart-mental transport now send for supplies, the transport of those sup-plies to the route-terminus, resting with the officer in charge of the communications, while a strong body of workmen would be put on the railway to repair it, relay the rails when the railway terminus would be again advanced and so on. At the Collecting Station, York, supplies would be sought, not only in the south, but in the whole region round York, and each commissariat officer of the army-corps would seek by requisitions purchased, or other means, to relieve the strain on the communication as much as possible.

region round York, and each commissariat officer of the army-corps would seek by requisitions purchased, or other means, to relieve the strain on the communication as much as possible. Such I believe to be the principles on which the Germans work railways, and undoubtedly so far as we can judge by the application of cause and effect, they are correct. I have tried not to burthen you with details, nor to enter into descriptions of how the complicated arrangements requisite for the organisation of lines, may be best divided between the departments of the army. If the principles are sound, the details will quickly settle themselves. But this we may feel sure of, that though good men may make bad systems work, yet all systems should provide for being worked by mediocre or indifferent men; many details of the German regulations, however, do not appear to me to be so framed,—I say it with the greatest diffidence and submission. But the general principles which prevail the whole, are logical, clear, and definite, and I cannot better conclude than by quoting the opening works of their new regulations on this subject. " The regular working of railways is of the first importance, not " only for warlike operations, but also as most materially affecting " national interests. The greatest care should be taken that they are " regularly worked; on the lines in rear of transfer stations the " ordinary traffic will not be interfered with for military purposes. The " carrying powers of a railway are best developed by constant steady" " traffic at regular intervals." " Any interference with the regularity of the railway is fatal."

"Any interference with the regularity of the railway is fatal."

The CHAIRMAN: I trust I may be allowed, in the name of this meeting, to assure Colonel Home that the subject which he has treated to night has been neither tedious nor uninteresting, and I hope I may be allowed to thank him in the name of those who have listened to his lecture, for the instruction which he has managed to convey in so interesting a manner. Genius has been defined as a "vast capacity "for taking trouble;" and although I do not think that is by any means a correct definition, there can be no doubt that success in any enterprise, or any line of life, depends on a vast capacity for taking trouble; and I believe that the successes of the German armies in the two last wars were not so much owing to the mani-festation of any great military genius on the part of the different generals, as to the vast capacity for taking trouble which was displayed in the bureaus of the military

offices of the empire in anticipation of war, no branch of which is, probably, more important than that which Colonel Home has brought before us so ably to-night.

Colonel CHESNEY, R.E.: I should like to give one single illustration of the value of the system which Colonel Home has so ably explained, of which I happen to have gathered the particulars on the spot, when visiting it on behalf of our Government at the close of the war. It occurred at a part of the siege of Metz that there were some comparatively slight but still smart actions, partly by reserve troops hurried up soon after a great part of the Army that had been round Metz, moved on towards Paris. Among these reserves were some from Wurtemburg. They came up not very long after the investment of Metz was complete, and almost immediately were brought into action; some of them had only just arrived. I learnt that they came into action, were wounded, and were conveyed by railway to the hospitals at Stuttgard, after a journey of less than twenty-four hours; so that it was affirmed that they were actually only thirty-six hours from the time they came before the French until the time they found themselves again in the heart of Germany, lying in their own town hospital. I suppose there can scarcely be a more striking instance of the value of perfect railway-management in maintaining unbroken the communications of an Army with its base.

The CHAIRMAN: I am sure you will allow me to return your thanks to Colonel Home for his very valuable lecture.

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