

FACTORS IN ADM PLANNING

1. Accn
Is sufficient accn aval for units conc for op - tentage - hard standings - room to get vehs off rds - covered accn for med units and wksp.
2. Ammo, Sups and POL
Est of expenditure and lift required - availability and time to obtain - dumping policy - system of normal maint - local resources - feeding civ population - PW - EFI - requirements for spec pack rat - policy on PPL or jerrican requirements.
3. RPS
Locs - necessity for move fwd or back - availability and suitability of altn sites - distances for first and sec line, tpt - dumping policy at each, having regard to bottlenecks - hrs of working day/ni - dummies for deception.
4. Water
Availability and loc - will sec line tpt and/or water truck cys be required - possibility of contamination - any boring required - res.
5. Rd
Cl - capacity - one way or two way - new const - improvements and repair - materials, lab and tpt required - effect of weather, frost or rain - vulnerability - effect of possible dmls.
6. Rlys
Gauge - availability of locomotives and rolling stock - line capacities - rly operating pers - vulnerability.
7. Ports
Port capacities in all weathers - possibility of improvements by dredging - instls of cranes etc - port units RE required - availability of civ lab.
8. Rd Tpt
Availability - possible use of civ tpt - tp carrying - port clearance - for forming deps - pooling arrangements - use rate and method of op dependent on no of rel dvs eval.
9. Med
Est of cas (from G) - est of sickness having regard to climate, insects, etc - med sit existing - res of med units - PW cas - lab and stores for health purposes - system of med evac.
10. Ord
Ord stores - availability - carriage of urgent replacements by air - holding of res of clo and spares fwd - provision of appropriate clo, etc, for malarial theatres, severe cold, etc - sal arrangements.
11. EME
Repair and rec - covered accn and hard standing for wksp - min mov of wksp ensures max production - availability of stores - rd space for bkld.
12. Engr Stores
Availability - local resources - res required - qty already in fwd area - tpt required.
13. TC
Resources, higher and subordinate fmsns - org of secs, TPs, etc - routing, incl altn routes to front, rear and flank - restrictions imposed by higher con - signposts - rd const and repairs - rec plan - diversions.
14. PW
Evac - interrogation arrangements (with G) - cages - escorts - food - tpt.
15. Lab
Availability of mil and civ lab.
16. CA
Evac - feeding - housing - med - clo - mov - plan for con of refugees and stragglers.
17. Nuclear
Effect of, on log org - est of possible scale of attack on base or L of C - areas to avoid, eg defiles - spec med arrangements - res of clo and eqpt - protection of dumps in the open - dispersion and its effects on efficient maint - altn comd and con orgs.
18. Weather
Extremes of heat and cold - rain and frost - spec clo or eqpt.
19. RAF
Requirements in sups, POL (incl RAF POL), bombs - const of ALGs - lab.
20. Air Tpt
Is air tpt aval or required - loc of airstrips - availability of air sup org and eqpt - adequate comms.
21. Rfts
Nos to be held fwd - tdn - any spec arrangements for calling fwd - staging and transit areas - loc of rft units with regard

CALCULATION OF MAINT TONNAGES
(To be used at the Staff College only)

1. To calculate the tonnages of daily maint and the build up of res stocks to be phased into a theatre in sp of an expeditionary force, it is expedient to use a 'planning yardstick'. One way of doing this is to apportion the expected consumption by commodities pro-rata over the theatre str. Below is a table of consumption rates using this method based on past experience, notably in World War II.
2. This table is a guide only and must not be used outside the Staff College. Even in exs here the table will be varied according to the type and area of ops and the forces committed. Variations will be given in the appropriate ex narratives. The reasons for these provisos are apparent from the notes at the ft of the table, which must be read carefully.
3. This guide must NOT be confused with the Sec Line Loading Tables. The table below is for planning purposes and is based on a Theatre average over a period of time. Expenditure rates in the CZ are based on actual nos and types of eqpts with which fmns/units are equipped.

MAINT TONNAGES

Commodity	lbs/man/day	
	Army (overall)	RAF (overall)
(a)	(b)	(c)
Sups	7	7
Ammo	11	14.3
Ord stores less vehs and ammo	4.4	1.5
Vehs	2	0.6
Engr stores (incl tn stores and those of ord origin)	17	13.6
Ac spares	-	13.2
Med, canteen, postal	1	1
TOTAL, dry cargo	42.4	51.2
Bulk POL	11	11
Packed POL incl wt of packing	-	-
Avm fuel	-	120
TOTAL, POL	11	131
GRAND TOTALS (in round nos)	54	182

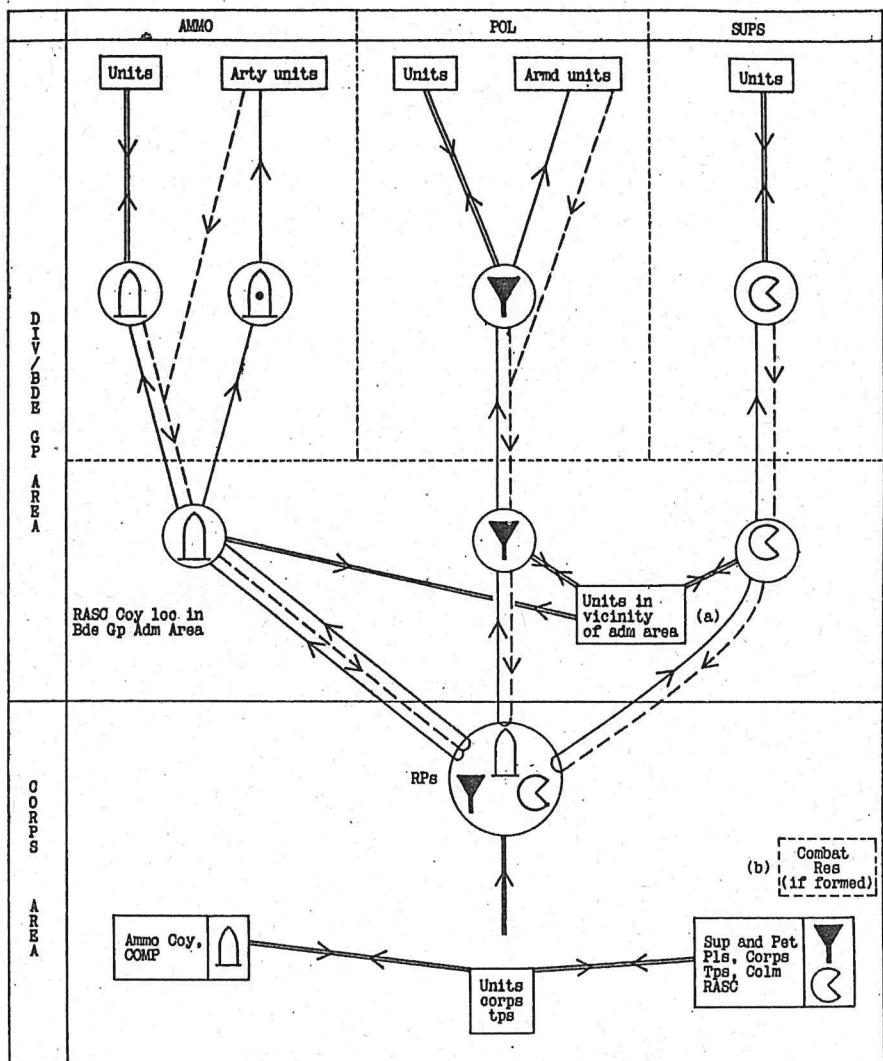
- NOTES:
1. These figures incl an elm of wt for packing and for normal losses. Colms (b) and (c) give theatre figures.
 2. When consumption is being considered, the type of op in which the force is engaged must be considered. The figures above allow for the variable consumption between intensity of ops eg contact, quiet periods etc.
 3. It has been assumed that POL enters the theatre in bulk and that it enters the CZ half in bulk and half in jerricans. This is not always the case; for conversions assume ratio by wt:-

$$\frac{\text{Packed POL}}{\text{bulk POL}} = \frac{5}{4}$$

4. The tonnage of engr stores is subj to wide variations since requirements are for project use and are not dependent on application of standard scales. Tonnage may vary from 150 tons/div slice to 700 or 800 tons per day. Op requirements incl airdf const and there the availability of local resources is the main factor.
5. The figure for avm fuel will vary enormously with the types of ac deployed. With modern ac AVTUR will often be the largest single maint tonnage and before preparing a Q maint project RAF advice must be taken on the extent of this commitment.

TYPES OF CORPS ADM UNITS

Svc (a)	Unit (b)	Remarks (c)
RAC	Corps del sqn Fwd del sqns	
Engrs	One engr gp - Two corps engr regts Corps fd pk sqn	Although an arm, engrs carry out many Q tasks.
Sigs	Corps sig pk	Holding sig project and certain con sig stores.
ST	Corps tps colm RASC - GT coy Hy GT coy Tipper coy Mot amb coy Sup coy - Three sup pls One pet pl Corps HQ car coy RP pls GT coys	Under HQ corps tps colm for adm. One per bde gp with one HQ sup coy for every four pls. Incls RAMC elm for handling med stores. To provide the sec line lift for corps armd and arty units and to carry the balance of sec line scales for bde gps that cannot be carried by their org units. HQ tpt colm are provided on the scale of one per four tpt coys.
Med	CCSs FDSSs FSTSs FTTs Med pl Fd hyg sec Fwd med eqpt dep Spec teams Mob dental teams	For mot amb coy.
Ord	CRAOC corps tps Corps tps OFF COMP Wksp stores secs GW coy	Incls responsibility for ancillary svcs and elms at RPs. Att REME wksp. Sups complete missiles.
EME	CREME corps tps Med wksp Corps tps wksp Corps rec coy Engr C veh wksp Tpt coy wksp Tels wksp SSGW wksp SAGW wksp Lt ac flt wksp LAA wksp Loc regt wksp	{ 1 hy rec pl per armd bde gp { 1 lt rec pl per 3 inf bde gps For med range SSGW regts.
Pro	Corps pro coy Corps pro sigs coy	
Pay	FBPO Fd cash offices	
Courier and Postal	Courier and postal units type B and D	
PL	RPC gp HQ and pnr coys	

SUP IN CZ

NOTES:- (a) Units in vicinity, incl B echs, may collect requirements from DPs estab in, or close to, nearest RASC coy loc.

(b) For emergency use only.

LEGEND	
Unit first line tpt	—
Second line tpt full	—
Second line tpt empty	—
Force tpt from FMA	—

SEC LINE LOADING TABLES

FOR STAFF COLLEGE USE ONLY

1. Auth sec line holdings are theoretical and can only be used as a guide. In war, the loading of sec line tpt will vary with the battle being fought. For example, in def the emphasis will be on ammo; in the pursuit, the main requirement will be POL.
2. These tables have been designed to enable students, in exs at the Staff College, to decide for themselves how best to load and deploy the tpt resources at their disposal.
3. The tables are not official. They are to be used for ex purposes only and must not be quoted outside the Staff College.
4. Expenditure rates for the main items of sup are normally expressed as folz:-

(a) Sus - in days, eg "x days Fresh".

(b) POL - in miles, eg "x miles for tracks, y miles for whs".

(c) Ammo - in rounds per gun (rpg) eg "25-pr - x rpg".

The expenditure rates of ammo shown in Table A may be taken, for Staff College ex purposes, as rep the average daily expenditure of a firm or unit when in tac contact with the en. Intense periods of activity may be taken as twice contact rates. For 'quiet' periods, ie when not in dlr contact with the en, the expenditure rate may be taken as half contact rates.

5. Load tables are given on pages 456 and 457 and should be used for items not incl in Table A below.
6. To carrying for a whole inf bde gp takes up 60 3-ton vehs.

Commodity	3-ton Load	Expenditure Rate	No of 3-ton veh loads ton-									Remarks	STANDARD APS/PPS (STAFF COLLEGE EXS ONLY)			
			Div Tps	Int Bde Gns	Armd Bde Gns	Regt C Regt Sqn	APC Regt Sqn	Inf Bn	Inf Bn	Inf Bn	Inf Bn		Inf Bde Gp	Armd Bde Gp	Inf Bde Gp	(d)
(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(a)	(b)	(c)	(d)
sh p	1,250 rat 1,500 rat	1 day 1 day	{ 1 1	5 4	5 4	{ 1 1	{ 1 1	{ 1 1	{ 1 1	{ 1 1	{ 1 1	Incls 4% lubricants	1	All natures AP less arty, mines and explosives	12	20
cks	675	50 miles	-	19	60	19	-	-	-	-	-					
c (a)	gals	50 miles	3	8	10	1	3	2	1	1	1					
	rounds	1 day	2	2	2	-	-	-	-	-	-					
-mm how	52	EDG	-	-	25	-	-	-	-	-	25					
-mm (hy tk)	45	36	-	7	21	7	-	-	-	-	-					
-mm (RCI)	66	12	-	4	1	-	-	-	-	-	-					
pr	184	100	-	10	-	-	-	-	-	-	-					
pr	80	35	-	17	51	17	-	-	-	-	-					
n mor	422	70	-	4	1	-	-	-	-	-	-					
er natures(b)	-	-	1	10	15	4	6	1	1	1	1					
7 A tk mine	180	-	-	-	-	(c)	-	-	-	-	-					
6 AP mine	4,500	-	-	-	-	(c)	-	-	-	-	-					

TABLE B

LOAD TABLES - AMMO

LOAD TABLES - AMMO
The figures quoted in the fol table are in 3-ton veh loads

Art'y	Wpn	Mors, etc		SAA	
		No of complete rounds (c)	Wpn (c)	No of complete rounds (d)	Wpn (e)
	864	Grenades No 36 M Grenades No 80 Grenades No 83		3,360 3,204 2,976	Browning .30-in Rifle .303-in Rifle 7.62-mm
) Tropical pack) Others	222 94 112 80 108 184	Grenades No 94 Mor 2-in smk Mor 3-in Mor 4.2-in HE Mines A tk Mk 7 Mines A pers No 5 Mines A pers No 6 Mines shrapnel Rkts 3.5-in HE A tk. 120-mm BAT		2,882 1,800 422 192 180 4,484 5,060 480 424 66	Pistol .380-in BESA 7.92-mm 9-mm Cartridges size 1-in.
(a) 60 lbs (b) 100 lbs	66 53 41 52 26 912				
(a) Mks 1-3 (b) Mk 6 L1 , rifle	648 75 60 45 111				

For some eqpts there are several natures of ammo, eg AP, HE, smk, all of different wts, but for gen guidance an average figure has been incl in the above table.

For most natures there are several types of packaging which, if all were incl, would require a complicated table. The q'tys shown above can therefore only be taken as a gen guide.

A few of the above figures vary with those given in Sec D to Appx 'A' Adm in the Rd Vol 1 which is being amended. For Staff College purposes the above table will be used.

LOAD TABLES - POL, WATER, SUPS, WIRE AND MISC

1. POL and Water

Product	Packing	No of gals per 3-ton lorry
MT Gas	4½-gal jerrican 40 - imperial gal drum	675 720
Lubricants	4½-gal jerrican 5 - imperial gal drum	585 620
DIESO	4½-gal jerrican 40 - imperial gal drum	620 640
Water	Container, water, 4½-gal	553

2. Sups

Type	No of rat per 3-ton lorry
Compo 10 man packs (without biscuits)	160 packs
Compo 5 man packs (without biscuits)	305 packs
Biscuits (22½ lb case) (54 lb case)	224 cases 93 cases
24 hr rat packs (cases of 10)	149 cases
Fresh rat (FS scale) approx	1,490
Hard rat (FS scale) approx	1,250
	1,500

3. Wire etc carried by a 3-ton lorry

Stores	Enough for 300-yd fence	Enough for 500-yd fence
	Catwire Fence - Type I	Low Wire Entanglement
Pickets A1 long	192	-
Barbed wire concertina	36	-
Barbed wire, coils 28-lb	18	75
Cutters wire folding, Mk 1	15	15
Gloves wiring; pairs	24	24
Pickets A1 short	-	1,000

4. Blankets carried in 3-ton lorry - 55 bales @ 25 per bale = 1,375 or 120 bales @ 10 per bale = 1,200.

5. Sandbags carried in 3-ton lorry - 78 bales @ 200 per bale = 15,600.

6. AG stores carried in 3-ton lorry - personal sqpt for 700 men.

SOME RASC PLANNING DATA

Veh Load Carrying Capacities

7. For planning purposes the fol figures will be used:-

(a) Fwd of RPs where loads are mainly "hy" items, eg ammo, POL:-

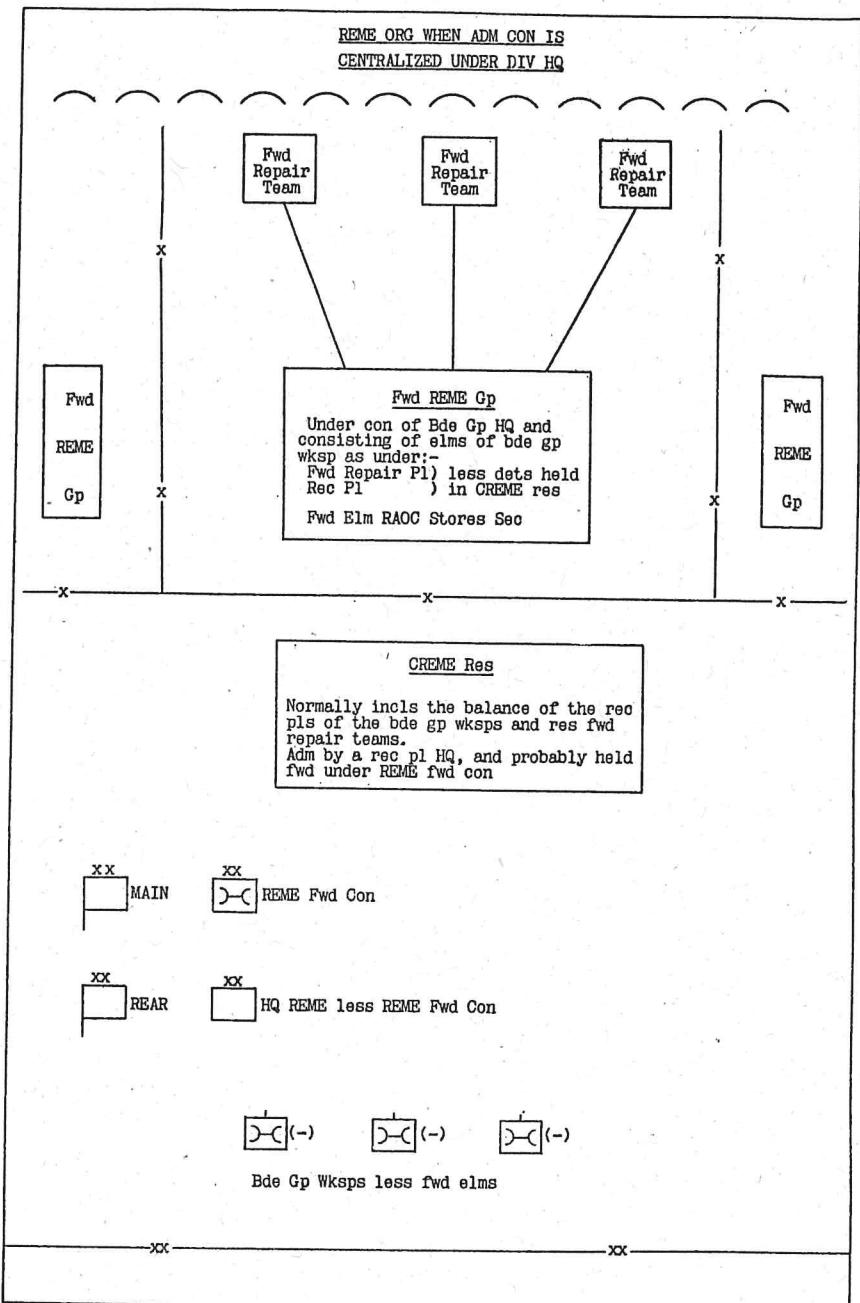
- (i) 3-ton truck - 3 tons.
- (ii) 10-ton truck - 9 tons.

(b) Behind RPs where loads incl considerable proportion of "bulky" items:-

- (i) 3-ton truck - 2½ tons.
- (ii) 10-ton truck - 7½ tons.

Loading Times

8. In practice these will vary considerably, but for exs at the Staff College timings



TYPES OF LADS WITH FORCE UNITS (UNIT REPAIRS AND FIRST LINE REC)

<u>Fmn, arm or svc</u>	<u>Type of Lad</u>
Fmn	Div HQ Inf bde gp Armd bde gp
RAC	Armd regt Armd C regt APC sqn Corps del sqn
RA	Fd regt Med regt
RE	Corps engr regt Armd engr sqn
R SIGS	Sig regt (div) Corps sigs regt Corps tps sigs regt
RASC	Corps HQ car coy

Types of att wksp (unit and fd repairs and rec)

Nuclear sp regt wksp REME
 GW regt (fd) wksp REME
 GW regt (AA) wksp REME
 LAA regt wksp REME
 Loc regt wksp REME
 Lt ac sqn wksp REME
 Lt ac flt wksp
 Indep lt ac flt wksp REME
 All RASC tpt coys incl MT, GT, tipper, mot amb, etc

REC VEH IN DIV AND BDE GPS

Units	Div Tps		Armd Bde Gp		Inf Bde Gp	
	Rec Vehs	ARVs	Rec Vehs	ARVs	Rec Vehs	ARVs
Div HQ	1					
Sig regt (div)	1					
Lt ac sqn wksp	1					
Bde gp			1		1	
Armd regt (each)			1	4	1	4
APC sqn			1			
Fd regt (towed)						1
Med regt (SP)			1		1	
Tpt coy			2		2	
Bde wksp rec pls			10 (a)	4 (a)	5 (b)	2 (b)
TOTAL in div tps and bde gps	3	-	18	17	10	6

(a) An armd wksp has in addition:-

Two rec vehs for use in wksp area
 Two tractors crawler
 One tptr

(b) An inf wksp has in addition:-

One rec veh for use in wksp area