

**PART 5**

**Chapter 1 — LOADING AND CG DATA**

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**1 CG limits**

(a) The CG limits, landing gear down, are as follows:

- Forward limit ... .. 1.0 inch forward of datum
- Aft limit ... .. 14.5 inches aft of datum

(b) Ballast must be carried if radar ranging is not carried.

**2 Effects of consumption of expendable stores**

(a) *Ammunition*

Firing the gun causes the CG to move aft.

(b) *Fuel*

<i>Consumption from</i>	<i>CG Movement</i>
Outboard drop tanks	Forward
Inboard drop tanks	Negligible
Wing tanks	Slight aft
Centre tanks	Slight forward
Front tanks	Aft

(c) Inboard drop tanks jettison has a negligible effect on CG.

(d) Release of stores from outboard pylons causes a forward CG movement.

### 3 Loading data

The figures given below are approximate and are intended only as a guide. Reference should always be made to AP 101B-1302-1.

(a) Weights fully loaded with fuel at 8.0 lb/gallon:

	<i>Clean</i>	<i>Drop Tanks</i>	
		2 × 100	4 × 100
Basic	13600	13600	13600
Crew (2)	360	360	360
Fuel	3312	4912	6512
Pylons	—	118	190
Drop tanks	—	300	600
Ammunition	162	162	162
<b>Total</b>	<b>17434</b>	<b>19452</b>	<b>21424</b>

(b) Approximate maximum fuel loads (lb) for landing at 18500 lb:

	<i>Clean</i>	<i>Drop Tanks</i>	
		2 × 100	4 × 100
Full ammunition	Full fuel	3950	3600
No ammunition	Full fuel	4100	3750

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