

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 fitted.

2 Effects of Consumption of Expendable Stores

(a) *Fuel*

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

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

(c) 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.

(a) *Weights Fully Loaded with Fuel at 8.0 lb/gallon:*

	Clean	Drop Tanks or Rocket Launchers Type 155		
		2 × 100	4 × 100	2 × 100 2 × Type 155
Basic	13600	13600	13600	13600
Crew (2)	360	360	360	360
Fuel	3312	4912	6512	4912
Pylons	—	118	190	190
Drop tanks	—	300	600	300
Launchers	—	—	—	796
Total	17272	19290	21262	20158

(b) *Rocket Launchers*

2 × type 155 launchers with RP	796 lb
2 × type 155 launchers without RP	394 lb

These weights do not include the pylons.

(c) *Approximate Maximum Fuel Loads (lb) for Landing at 18,500 lb (RP expended)*

Clean	Drop Tanks or Rocket Launchers Type 155		
	2 × 100	4 × 100	2 × Type 155 2 × 100
Full fuel	4100	3750	3650

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