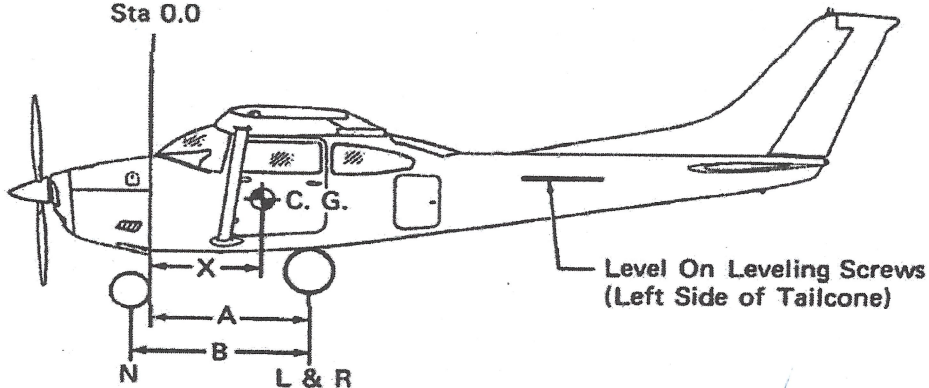


Mass and Balance Report

AMN-F19A

Aircraft Registration:	PH-GYS	Date:	29-7-2024
Aircraft Type:	F 172N	W/O:	20240003
Aircraft S/N:	F17201871	Location:	EHTE

Datum (Firewall, Front Face)
Sta 0.0



	Scale readings 'KG'	Tare 'KG'	Netto 'KG'	Arm 'MTR'	Moment 'KG.MTR'
Left main landing gear	251,00	0,00	251,00	1,47	368,97
Right main landing gear	243,00	0,00	243,00	1,47	357,21
Nose landing gear	186,00	0,00	186,00	-0,16	-29,76
Totals			680,00	1,0241	696,4200

	Scale readings 'LBS'	Tare 'LBS'	Netto 'LBS'	Arm 'INCH'	Moment 'LBS.INCH'
Left main landing gear	553,36	0,00	553,36	57,87	32025,18
Right main landing gear	535,72	0,00	535,72	57,87	31004,46
Nose landing gear	410,06	0,00	410,06	-6,30	-2583,05
Totals			1499,14	40,3208	60446,5861

	Basic Empty Mass and Balance		
	Mass	Arm	Moment
(KG.MTR)	680,00	1,02	696,42
(LBS.INCH)	1499,14	40,32	60446,59

Mass and balance
carried out by signature: 

Inspector signature:  

Weight & Balance – quick reference

C172-P long range tanks

MTOW (Max Take Off Weight): 1089 kg
BEW (Basis Empty Weight): 680 kg
 Useful load: 409 kg

MTOW Utility Category: 952 kg
 BEW: 680 kg
Useful load Utility Category: 272 kg

TANKS FULL

Useful load: 409 kg
 Fuel: (50 USG / 190 liter x 0,72 =) 137 kg
Max. pax / baggage weight: 272 kg

TANKS 75%

Useful load: 409 kg
 Fuel: (38 USG / 144 liter x 0,72 =) 104 kg
Max. pax / baggage weight: 305 kg

TANKS 50%

Useful load: 409 kg
 Fuel: (25 USG / 95 liter x 0,72 =) 69 kg
Max. pax / baggage weight: 340 kg

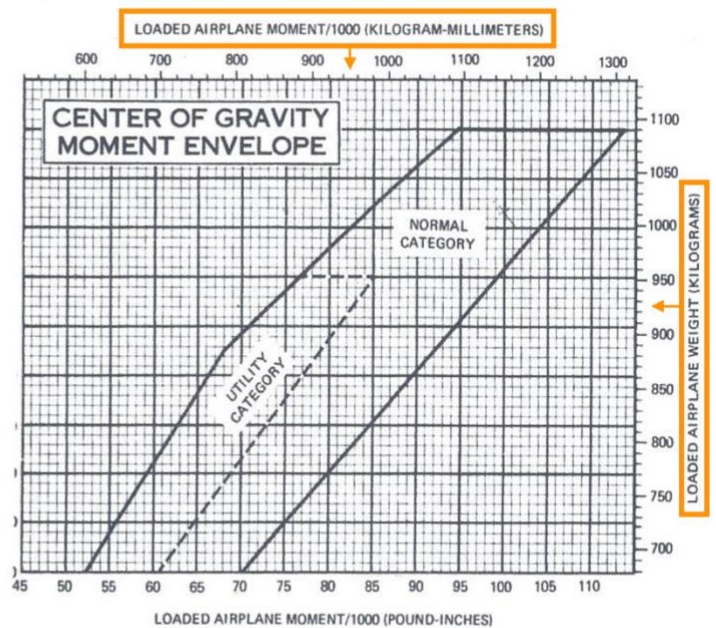
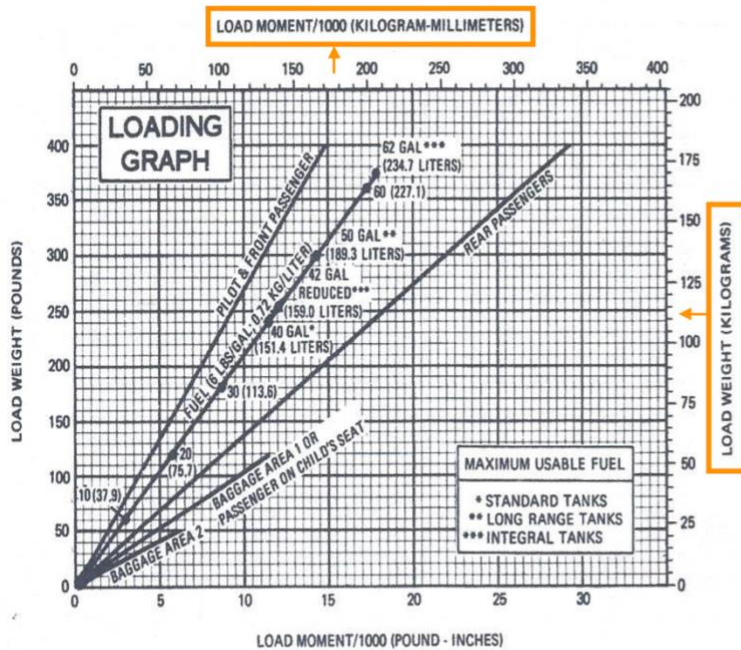


Figure 6-7. Center of Gravity Moment Envelope

Basic Empty Weight			
	(kg)	(kg.mm)	
	680	696	
PILOT & FRONT PASSENGER	+		
REAR PASSENGERS	+		
BAGGAGE AREA 1 (max 54 kg)	+		
BAGGAGE AREA 2 (max 22 kg)	+		
Zero Fuel Weight			+
FUEL (max 137 kg)	+		← check in MOMENT ENVELOPE
Ramp Weight (max 1092 kg)			+
TAXI FUEL	-		-
Take Off Weight (max 1089 kg)			← check in MOMENT ENVELOPE
TRIPFUEL	-		-
Landing Weight			← check in MOMENT ENVELOPE

