



WILKES-BARRE/SCRANTON INT. AIRPORT
AVOCA, PENNA. 18641
Tel. (717) 343-1228

CESSNA 402

N-8422-F

402-0270

HR METER 222 HRS AUG 10 1981

THIS IS A PERMANENT LOG BOOK ENTRY AND IT IS TO BE INSERTED AS SUCH.
REPLACED OIL COOLER LEFT ENG.

INSTALLED 4 EA 18.7 GALS AIR AMERICA INC FUEL WING LOCKER TANKS AS
PER STC SA 2872 SW AND APPLICABLE PARTS OF AC 43 13 1 & 2

"The aircraft, airframe, aircraft engine,
propeller, or appliance identified above
was repaired and inspected in accordance
with current Regulations of the Federal
Aviation Administration and is approved
for return to service."

Full details of the repair are on
file at this repair station under Order

No. 647 Date AUG-10-81

Signed *Elio Ghiselli* for
(signature of authorized representative)
Air America, Inc. #103-01

Wilkes Barre/Scranton Airport
Avoca Pa. 18641

GROSS WEIGHT 6300 LBS
EMRITY WEIGHT 3964 LBS
USEFULL LOAD 2336 LBS
EMPTY WT. C.G. 156.0IN
WMPTTY WT. MT. 618244.0 IN.LBS

SEE 337 THIS DATE

CURRENT

TEL: (717) 343-1228



WILKES-BARRE/SCRANTON INT. AIRPORT
AVOCA, PENNA. 18641

WEIGHT AND BALANCE FORM

Aircraft N-8422-F

Make & Model CESSNA 402

Serial Number 402-0270

Date OCT 16 1981

Previous Data	Weight	Arm	Moment
	3900	155.5	606440.0
New Data	3964	156.0	618244.0

Basic Empty Weight 3964 LBS

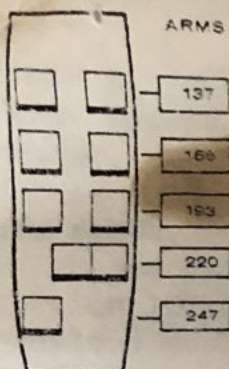
Empty Weight C.G. 156.0IN

Liscensed Take Off Weight 6300 LBS

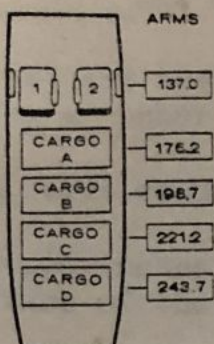
Usefull Load 2336 LBS

Signed Elio Ghelli FOR AIR AMERICA, INC.

MOMENTS ARMS



OIL 113.5
TIP FUEL 152.0
WING FUEL 164.0
WING LOCKER FUEL 166.0
BAGGAGE NOSE 71.0
BAGGAGE WING LOCKER 186.0
BAGGAGE AFT CABIN 247.0



CARGO "A" (STA. 165 TO 187.5) 176.2
CARGO "B" (STA. 187.5 TO 210.0) 198.7
CARGO "C" (STA. 210.0 TO 232.5) 221.2
CARGO "D" (STA. 232.5 TO 255.0) 243.7

NOTE

MAXIMUM ALLOWABLE CARGO LOADS WILL BE DETERMINED BY THE AIRPLANE WEIGHT AND C.G. LIMITATIONS. FLOOR LOADING MUST NOT EXCEED 200 POUNDS PER SQUARE FOOT.

CARGO AREA IS DIVIDED INTO FOUR (4) EQUAL BAYS OF 22.5 INCHES EACH. MAXIMUM LOADING PER CARGO BAY IS 500 POUNDS.*

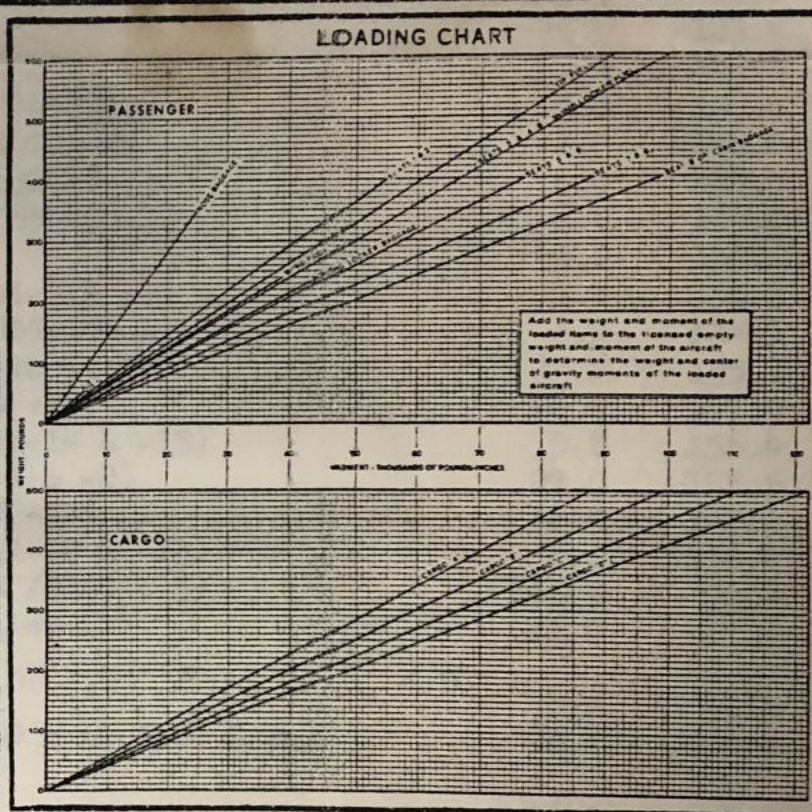
* WHEN CAMERA PROVISIONS ARE INSTALLED, MAXIMUM LOADING PER CARGO BAY IS:

CARGO "A" 500 POUNDS
CARGO "B" 400 POUNDS
CARGO "C" 400 POUNDS
CARGO "D" 370 POUNDS

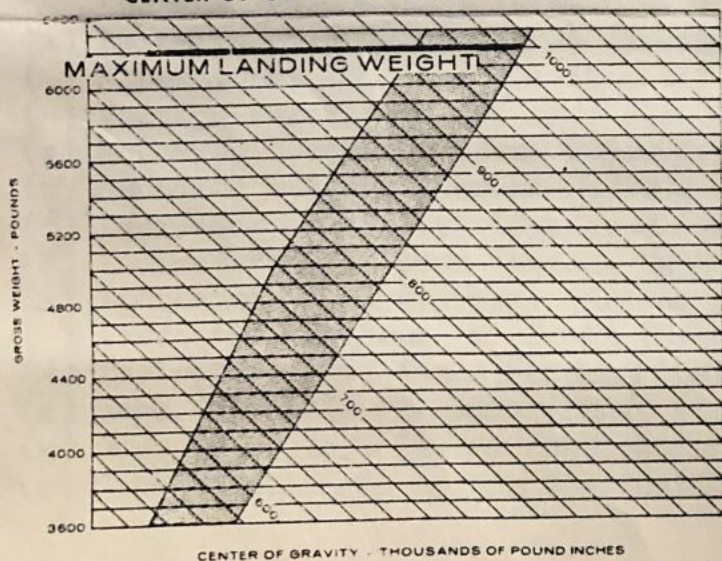
SAMPLE LOADING CALCULATION

The following example shows how to check the loading of your aircraft to be sure you are operating within the approved weight and center of gravity limits. Locate weight of each item on left side of the loading chart. Move right until you reach the proper slanted line. Then move down and read the moment corresponding to that weight. Enter weights and moments in table below and add or subtract as indicated to obtain totals.

ITEM	WEIGHT POUNDS	MOMENT THOUSANDS OF POUND-INCH
LICENSED EMPTY WEIGHT	3900	606.4
PILOT & PASSENGER ☒ 1 & 2 ☒	340	46.6
PASSENGER SEATS ☒ 3 & 4 ☒	340	56.4
PASSENGER SEATS ☒ 5 & 6 ☒	340	65.6
PASSENGER SEATS ☒ 7 & 8 ☒	340	74.8
PASSENGER SEATS ☒ 9	70	17.3
BAGGAGE (NOSE)	141	10.0
BAGGAGE (WING LOCKERS)		
BAGGAGE (AFT CABIN)		
CARGO A		
CARGO B		
CARGO C		
CARGO D		
OIL (26 QT. INCLUDING UNUSABLE)	49	5.6
FUEL (5 POUNDS PER GALLON)		
TIP	600	91.2
WING	180	29.5
WING LOCKER		
TOTAL AT LICENSED GROSS WEIGHT	6300	1003.4
SUBTRACT ALL FUEL INCLUDED ABOVE		
TIP	600	91.2
WING	180	29.5
WING LOCKER		
ADD MINIMUM FUEL (28.7 GALLON)	172	26.1
TOTAL WITH MINIMUM FUEL	5692	908.8

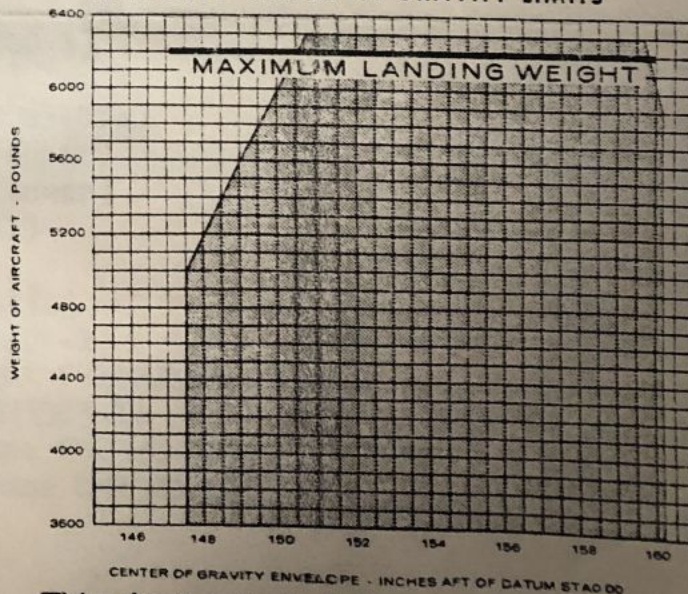


CENTER OF GRAVITY MOMENT ENVELOPE



Locate total weights and moments on chart. All loadings that fall within the shaded area meet weight and balance requirements. This simplified procedure makes it unnecessary to determine the CG arm.

APPROVED CENTER OF GRAVITY LIMITS



This chart is included so that you may, if you desire, see where the CG arm of your loading falls within the approved CG limits. CG arm is moment divided by weight.