

CESSNA AIRCRAFT COMPANY

Wichita, Kansas

Loading and Center of Gravity Charts

MODEL 172M

1975

N8911V

SAMPLE LOADING PROBLEM (NORMAL CATEGORY)	SAMPLE AIRPLANE		YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb.-ins./1000)	Weight (lbs.)	Moment (lb.-ins./1000)
1. Licensed Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel.)	1368	53.8		
2. Oil (8 Qts. - The weight of full oil may be used for all calculations. 8 Qts. = 15 Lbs. at -0.2 Moment/1000).	15	-0.2	15	-0.2
3. Usable Fuel (At 6 Lbs./Gal.) Standard Tanks (38 Gal. Maximum) Long Range Tanks (48 Gal. Maximum)	228	10.9		
4. Pilot and Front Passenger (Station 34 to 46)	340	12.6		
5. Rear Passengers	340	24.8		
6. *Baggage Area 1 or Passenger on Child's Seat (Station 82 to 108) 120 Lbs. Max.	11	1.0		
7. *Baggage Area 2 (Station 108 to 142) 50 Lbs. Max.				
8. TOTAL WEIGHT AND MOMENT	2300	102.9		

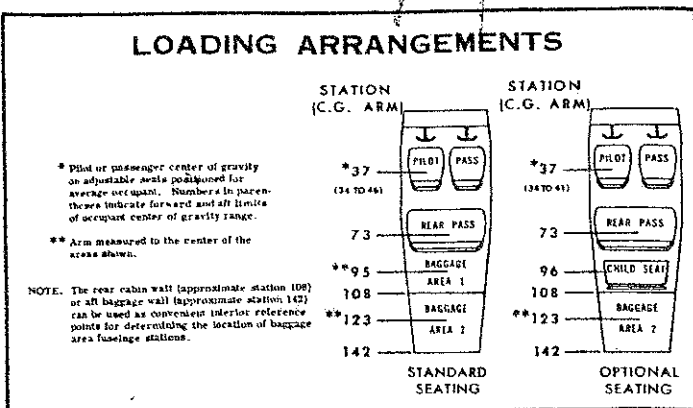
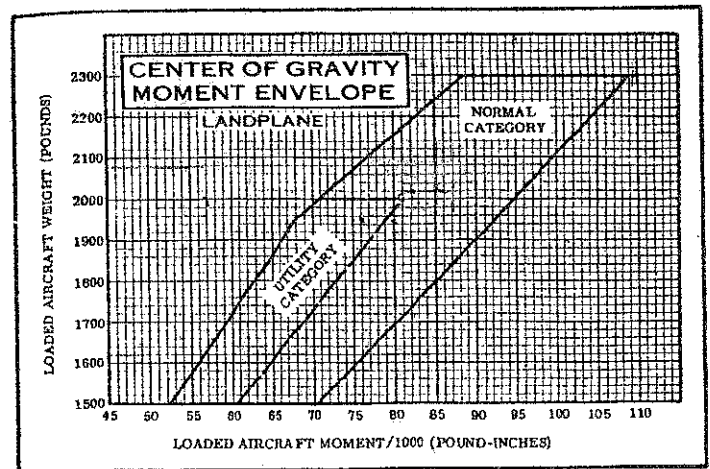
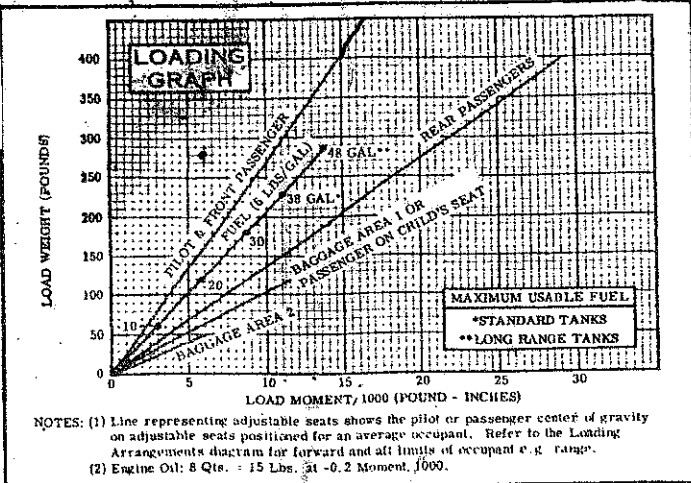
9. Locate this point (2300 at 102.9) on the Center of Gravity Moment Envelope, and since this point falls within the envelope, the loading is acceptable.

NOTE
*The maximum allowable combined weight capacity for baggage areas 1 and 2 is 120 lbs.

EMPTY WEIGHT: 1454.85
 ARM: 39.74
 MOMENT: 57808.6
 GROSS WEIGHT: 2300 lbs.
 USEFUL LOAD: 845.15

SAMPLE LOADING PROBLEM (UTILITY CATEGORY)	SAMPLE AIRPLANE		YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb.-ins./1000)	Weight (lbs.)	Moment (lb.-ins./1000)
1. Licensed Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel.)	1368	53.8		
2. Oil (8 Qts. - The weight of full oil may be used for all calculations. 8 Qts. = 15 Lbs. at -0.2 Moment/1000).	15	-0.2	15	-0.2
3. Usable Fuel (At 6 Lbs./Gal.) Standard Tanks (38 Gal. Maximum) Long Range Tanks (48 Gal. Maximum)	228	10.9		
4. Pilot and Front Passenger (Station 34 to 46)	340	12.6		
5. TOTAL WEIGHT AND MOMENT	1949	77.1		

6. Locate this point (1949 at 77.1) on the Center of Gravity Moment Envelope, and since this point falls within the envelope, the loading is acceptable.



WEIGHT AND BALANCE/EQUIPMENT LIST REVISION

NAME: M.W. Corbett
 AIRCRAFT MAKE/TYPE: Cessna
 REGISTRATION #: N8911V

DATE: 5-25-2005
 MODEL #: 172M
 SERIAL #: 17264268

57.53

PREVIOUS DATE: 4-18-05

WEIGHT: 1465.05 ARM: 39.27 MOMENT: 57528.14

#	EQUIPMENT LIST	IN	OUT	WEIGHT	ARM	MOMENT
1	(P/N) <u>149-1225</u> (S/N) <u>FZL-060541</u> (Desc.) <u>SKY-TEC STARTER</u>		X	<u>7.8 lbs</u>	<u>- 27.5</u>	<u>- 214.5</u>
2	<u>Presolite starter</u> (P/N) <u>M34206</u> Ser# <u>1B000198</u>		X	<u>-18.0 lbs</u>	<u>- 27.5</u>	<u>495.0</u>
3						
4						

AIRCRAFT EMPTY WEIGHT: 1454.85 lbs.
 MOM/1000 57.8 ARM: 39.74
 GROSS WEIGHT: 2300 lbs. MOMENT: 57808.64
 USEFUL LOAD: 845.15 lbs.

M.W. Corbett
 SIGNATURE
M.W. CORBETT 3020046A+P, IA
 AUTHORIZATION

NOTE: Weight and balance must be completed and attached to pilot's operating handbook.