

COMPUTED WEIGHT & BALANCE REPORT

DATE 2/12/47 CESSNA AIRCRAFT COMPANY
WICHITA, KANSAS MODEL 120

TYPE CERTIFICATE NO. 768 AIRCRAFT SPECIFICATION A-768-3
PRODUCTION CERTIFICATE NO. 4 (Dated March 28, 1946)

STANDARD AVERAGE WEIGHT	<u>854.0</u>	EMPTY C.G.	<u>92.9</u>	SERIAL NO.	<u>12695</u>
ACTUAL EMPTY WEIGHT	<u> </u>	EMPTY C.G.	<u> </u>	NC NO.	<u>2442H</u>

Standard average airplane with items shown on equipment list dated 2/22/47.

CORRECTED WEIGHT & HORIZONTAL BALANCE

[illegible]

NEW EMPTY WEIGHT	EMPTY C.G.
MAXIMUM WEIGHT - 1450 LBS.	EMPTY WEIGHT CG RANGE + 12.2 TO + 14.5 (FURTHER CHECK NOT REQUIRED)

C.G. RANGE — 13.5% TO 17.7 INCHES AFT OF DATUM (WING LEADING EDGE)
22% TO 29.2% M.A.C.

MOST FORWARD C.G. LOCATION

ITEM	WEIGHT (LBS.)	ARM	MOMENT
EMPTY WEIGHT			
PILOT	170.0	19.5	3315
FUEL 7.08 GAL.	42.5	23.0	978
OIL 4.5 QTS.	8.5	-31.5	-268
TOTAL		MOST FWD. C.G.	

Fuel 6 lbs. Gal.
Oil 7.5 lbs. Gal.
Baggage 80.0 lbs Maximum

BALANCE = $\frac{-5}{59.0}$ = % M.A.C.

MOST REARWARD C.G. LOCATION

ITEM	WEIGHT (LBS.)	ARM	MOMENT
EMPTY WEIGHT			
PILOT & PASSENGER	340.0	19.5	6630
FUEL GAL.		23.0	
OIL 4.5 QTS.	8.5	-31.5	-268
BAGGAGE LBS.		37.5	
TOTAL		MOST RWD.C.G.	

$$\text{BALANCE} = \frac{-5}{59.0} = \quad \% \text{M.A.C.}$$

PREPARED BY L. E. Moreland

APPROVED BY

DESIGNATED MANUFACTURING
INSPECTION REPRESENTATIVE.

EQUIPMENT LIST

Cessna Models 140 & 120 (1947)

SERIAL NO. 12695

NC NO. 2442N

DATE 2/12/47

MODEL 120

The following items of equipment are installed in excess of required equipment.
When these *items replace standard required equipment, the actual weight increase
or decrease is indicated.

ITEM NO.	DESCRIPTION	WEIGHT(LBS.)	ARM(IN.)
2	* Propeller McCaulley Model 1A90	11	- 50
303	Landng Light Installation	6	/ 15
304(b)	Magneto Radio Receiver	5	- 6
401	Cabin Heater	3	- 30
	Speaker Installation	3	/ 37
	Co-pilot Brake Pedals	2	- 11
	Carburetor Mixture Control	1	0
	Septic Fittings	5	/ 29
	Radio Shielding	2	- 30
	Radio Antenna	.5	/ 14
	Fire Extinguisher and Bracket	5	/ 9
	Fire Installation	18	/ 48
	Electrical System, Model 120	53	/ 21
304(a)	<div> <div>VISUAL NIGHT All Model 140 Model 120 with</div> <div>INSTRUMENT NIGHT</div> <div> General Electric ASLB Radio *Sensitive Altimeter Turn and Bank Indicator Rate of Climb Indicator Clock with Sweep Hand Dugas 2421man 5005 </div> </div>	13	- 5
		.5	- 1
		2	- 2
		1	- 1
		.5	0

THE FOLLOWING IS INFORMATION FOR FIELD INSTALLATION

*Front Skis	- 4	/ 29
*Rear Ski	- 3	/ 197
*Float Installation with Fin and Cables	94	/ 11