CESSNA AIRCRAFT COMPANY WICHLTA, KANSAS

Weight & Balance Data

Aircraft Serial No. 15060199

F. A. A. Registration No. N4199U (STD)

11-14-63 Date:

ITEM	Weight X (lbs.)	C.G. Arm (inches)	Moment (lb. ins.)
Standard Airplane (Empty, Dry & Unpainted) XArtuak Computed	955.0	32.5	31037
Optional Equipment	58.0	24.7	1433
Special Installations (DMCR Approved)	(135		
Paint Stripes Over-All	13.0	68.0	884
Unusable Fuel (3.5 Gal.)	21.0	40.0	840
Licensed Empty Weight = Total of Above Items	1047.0	32.7	34194

(GROSS WT.) - (LICENSED EMPTY WT.) = USEFUL LOAD Above superceded by 337 Of 6/30/64 7

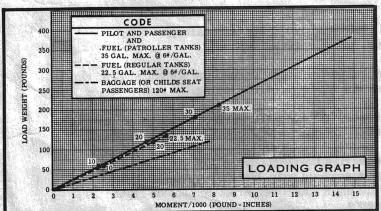
(1600 LBS) - (1047.0 LBS) 1078.1

SAMPLE LOADING PROBLEM

Licensed Empty Wt.	Weight (lbs) /078./	C. G. Arm (inches) 33.19	Moment (lb-ins/1000) 35. 8
Oil (6 Qts.)	11	-12.0	-0.1
Pilot & Passenger	340	39.0	13. 3
Fuel (Patroller Tanks)	202.0	39.5	8.0
Fuel (Standard Tanks)		42.0	, may 400 , may
Baggage (or Passenger Child's Seat)	on	65.0	1800 -14- 57

1600 Total Loaded Airplane =

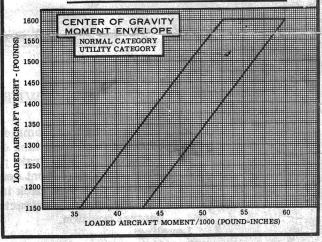
Locate this point (1600, 55.4) on the C. G. Moment Envelope. Since the point falls within the envelope the loading meets all balance requirements.

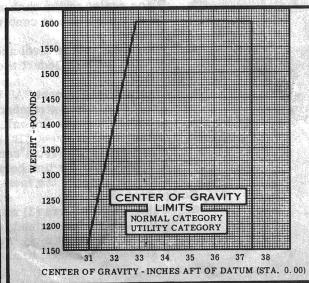


IT IS THE RESPONSIBILITY OF THE PILOT AND AIRPLANE OWNER TO INSURE THAT THE AIRPLANE IS LOADED PROP-ERLY. THE EMPTY WEIGHT C.G. & USEFUL LOAD ARE FOR THE AIRPLANE AS DELIVERED FROM THE FACTORY. REFER TO FORM FAA-337 WHEN ALTERATIONS HAVE BEEN MADE.

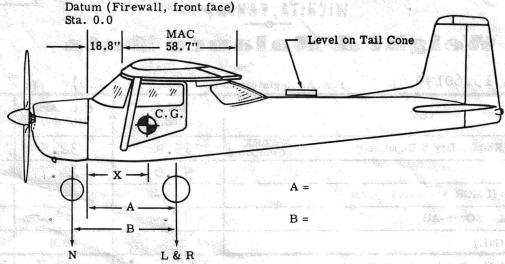
C.G. MOMENT ENVELOPE INSTRUCTIONS

- I To the licensed empty weight add weight of all items to be carried.
- To licensed empty weight moment add moment of all items to be carried.
- III Locate point determined by I & II and if it falls within the C. G. moment envelope the loading is satisfactory.





Form issue date: 5 July 1963



Scale Position	Scale Reading	Tare	Symbol	Net Weight
Left Wheel	particularity and consistency in the constitution of the constitut		L	
Right Wheel			R	0
Nose Wheel		3.00	N	AGE APPRICE
Aircraft Empty Weight (A	As Weighed)	hig (1988)	w v	

$$X = ARM = (A) - (N) \times (B)$$

$$X = () - () \times () = () IN.$$

WEIGHING PROCEDURE

1. Preparation:

- a. Inflate tires to recommended operating pressures.
- b. Remove each wing tank drain plug to remove all fuel.
- c. Remove oil sump drain plug to drain all oil.
- d. When individual front seats are installed place seat in most forward position with seat back in most nearly vertical position.
- e. Put flaps in fully retracted position. Place all control surfaces in neutral position.

2. Leveling:

- a. Place scales under each wheel (500# min. capacity for scales).
- b. Deflate nose tire to center bubble on level (see diagram).

3. Weighing:

a. With the airplane level and the brakes released, record the weight shown on each scale. Deduct the tare, if any, from each reading.

4. Measuring:

- a. Obtain measurement "A" by measuring horizontally (along airplane center line) from a line stretched between the main wheel centers to a plumb bob dropped from the firewall.
- b. Obtain measurement "B" by measuring horizontally and parallel to the airplane center line from center of nosewheel axle, left side, to a plumb bob dropped from the line between the main wheel centers. Repeat on right side and average the measurements.

5. Completing the Form:

- a. Using weights from (3) and measurements from (4) the airplane weight and C. G. can be determined.
- b. Obtain Licensed Empty Weight by adding weight and moment of unusable fuel (see other side) to airplane empty weight and moment.

CESSNA MODEL 150D EQUIPMENT LIST

AIRCRAFT SERIAL NO. 15060199 FAA REGISTRATION NO. N4199U (STD)ATE 11-14-63

- 1. Items checked (X) are installed when aircraft leaves factory.
- 2. Items with suffix (R) are required items of equipment for FAA certification.
- 3. Items with suffix (S) are standard equipment items.
- 4. Items with suffix (0) are optional equipment items replacing required or standard items.
- 5. Items without suffix are optional equipment.
- Unless otherwise indicated, true values (not net change values) for weight and arm are shown.
- 7. Negative arms are distances forward of datum (Sta. 0.0 firewall, front face).
- 8. Positive arms are distances aft of datum.
- 9. A separate FAA approval must be obtained if the following items are not installed per applicable Cessna drawings or accessory kit instructions.

	TTEM	\$125 (19) (19)	CONTRACTOR	WT.	ARM
	NO.	DESCRIPTION		LBS.	INCHES
		The contract of the contract o			X SII
	Ol-R X		Ly	210.5	-17.5
	00 B 77	engaging starter) Propeller, Fixed Pitch (McCauley 1A100/MCM 6950)	(0),50575)	20.0	-32.0
	02-R X		(0450501)	Negl.	-34.0
		Spinner Propeller Spinner Propeller	(0450026)	1.5	-34.0
	03-0	Generator, 20-Amp 12-Volt	(04)0020)	10.0	- 7.5
4		Generator, 35-Amp 12-Volt	(0500037)	16.0	- 7.5
	05-R O	Regulator, Generator 20-Amp 12-Volt	(0413205)	1.5	- 1.0
	05-0 X		(0413205)	1.5	- 1.0
	06-R X		(0511319)	22.5	- 4.5
	07-R X	Filter, Carburetor Air (Air-Maze 121614)	SELECTION OF THE SELECT	1.0	-24.5
-	08-R X	Heating System, Cabin & Carburetor Air	the Art.	9.5	-21.0
	00-R X		ing (Main)	22.5	47.5
	09-0 0	Wheel, Brake & Tire Assy (two) 6.00 x 6 4-ply re	ating (Main		47.5
	10-R X	그리고 그는 그리고	ose)	9.0	-11.6°
	11-R X	Indicator, Stall Warning Audible	(S-1407-3)	0.5	16.5
1	11-0 0	Indicator, Stall Warning Audible (heated stall se		A State of the	이 기계시작
		heated pitot)	(0422353)	1.5	18.5
	12-R 0	Altimeter	(s-1314N1)	1.0	17.0
	12-0 X	Altimeter, Sensitive	(s-1313N1)	1.5	17.0
	13-R O	Seat, Adjustable Back, Pilot & Co-Pilot	(0400118)		43.5
	13-0 x	Seat, Adjustable with Reclining Back, Pilot	(0400316)	11.0	44.5
	14-0 X	Seat, Adjustable with Reclining Back, Co-Pilot	(0400316)	11.0	44.5
	15-R X	Straps, Baggage Tie-Down	(0411845)	0.5	61.0
	16-R X	Belt, Safety, Pilot	(S-1060-201		39.0
See See	17-S X	Belt, Safety, Co-Pilot	(s-1060-201		39.0
	18-R X	Compass	(0713068)	0.5	16.0
	19 - S 0	Paint Scheme, Standard Stripes	(0400031)	2.5	84.0
A STATE OF	19-0 x	Paint Scheme, Over-All	(0400031)	13.0	68.0
				Marin Long Co.	20.5
	100 0	Ammeter	(s-1319-1)	0.5	18.0
	101 X	Clock, Electrical	(S-1317N1)	0.5	19.0
	102 X	Controls, Dual (Wheel, Pedals & Toe Brakes)	(0400317)	4.0	11.0
	03 0	Corrosion Proofing, Internal		3•5	68.0
		:			

CESSNA MODEL 150D EQUIPMENT LIST

TTEM NO.	_	DESCRIPTION (P.S.) UCC. 1. CA TRUE TABLE TO BE A TOTAL OF THE PROPERTY OF THE	66T09051 Maraio	WT. LBS.	ARM <u>INCHES</u>
104	x	Doors, Patroller Cabin (Net Change)	(0411914)	2.0	37.0
105	0	(2008) - 1200년 -		12.5	29.5
106	0	Filter, Oil (full flow)	(0450517)	4.5	-6.0
107		Fire Extinguisher, Hand Type	(0800111)	5.5	9.5
108		Gage, Outside Air Temp.	(S-1322-1)	Negl.	21.0
109	X	Gyros, Horizon & Directional (includes engine-d	riven		* UED 10 E
		vacuum system)	(0400315)	15.5	1.0
110	0	Gyros, Pictorial, Horizon & Directional (include			
		engine-driven vacuum system)	(0400304)	15.0	1.0
111	0		(0411936)	1.5	40.0
112	0	X를 잃으면 있는 사람들은 마음을 하는 것이다. 이번 사람들은 전 경험에 대표하는 것이 되었다고 있다. 그리고 있는데 그렇게 되었다는 것으로 하는 그런 사람들은 실험에 대표하고 있습니다. 그리고 있는	(0500228)	0.5	200.0
113	X		(S-1304N1)	1.0	17.0
114	X	생활하면 하다 생활하는 사람이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	(s-1302N1)	2.0	16.5
115	X	MMRRRR - 프라이트 스타이에 프로그램 - 프라이트 - 프	(0400314)	2.5	24.5
116	X	[14] [14] [15] [15] [15] [15] [15] [15] [15] [15	(0700120)	2.0	190.5
117	0	Lights, Courtesy (set of two)	(0521101)	Negl.	54.0
118	X	가지 말이 있는 것이 없는 것이 없는 것이 되었다. 그런 그는 그는 그는 것이 없는 것이었다면 없는 것이었다면 없는 것이 없어 없는 것이 없어 없어요.	(0513052)	Negl.	18.0
119	0	발매하게 전쟁 (14) 이 시간	(0400036)	8.5	64.0
	0		(0400027)	Negl.	
121	X		(0500040)	1.0	27.0
122	0		(0400016)	2.0	65.0
123	X		e) (0426008)		41.0
124	U	Winterization Kit, Engine	(0450509)	0.5	-30.0
200	Х	Microphone		0.5	18.5
201	X	Speaker, Cabin		0.5	30.5
CONTRACTOR OF THE PARTY	X	화대에게 하는 그런 아이들이 살아보고 있다고 있는데 그는데 그런데 가장하는데 하는데 하는데 하는데 하는데 그런데 하는데 그런데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는		0.5	48.0
203	X	Navigation Antenna and Cable		1.5	144.0
204	0	Marker Beacon Antenna and Cable	Transfer at 17	0.5	65.0
205	0	Cessna Nav-Com 300 (514A) 100 Channel		10.5	13.0
	0	Cessna Nav-Com 300 (514A) 360 Channel	(0470400)	10.5	13.0
207	X	King KX-150		9.0	13.5
208	0	King KY-95	Avenue have out of I	8.0	9.0
A STATE OF THE PROPERTY OF THE PARTY OF THE	0	네트 BU 회사는 전 시민들에게 존대하는 계속으로 있다면서 보고 있습니다. 그리고 있는데 보고 있는데 보고 있다면 보고 있다면 보고 있다면 되었다면 보고 있다면 보고 있다면 되었다.		8.0	9.0
	0	Narco Mark IV Superhomer		7•5	12.0
CT. Lib Life Commission Commission	0	Narco Mark XII with VOA-4	501718	13.5	35•5
212	0	Narco Mark XII with VOA-6		12.5	37.0
		deing beek Fried Charles (12.6)			

APPROVED

O. T. Wells, DMCR 3-1

Issued: 11 July 1963

Out (100-0001-c)