



**LOAD DATA SHEET - PAGE 3 OF 3 - LOADING SYSTEM**

Aeroplane Type:..... CESSNA 172M

VH-JZJ

Registration Marking:..... **VH-JZJ** Serial No: 17265926

ISSUE:..... TWO      DATE:..... 15.11.17

The following is valid only for the Empty Weight specified in page 1 - Aeroplane Weight dated.. 15.11.17 and is based on calculations using Occupant Weights of 60 to 90 Kg each.

**A...NORMAL CATEGORY OPERATIONS:-**

**1. OCCUPANTS:-**

Load Front to Rear (i.e. Front seats first)  
Load Heaviest Passengers in front row

**2. BAGGAGE COMPARTMENT LIMITATIONS:-**

Number of Occupants	Maximum Baggage
One(pilot)	54.5 Kg
Two	54.5 Kg
Three	54.5 Kg
Four	54.5 Kg

**3. WING MAIN FUEL:-**

Fuel is limited only by All Up Weight

**MAXIMUM TAKE-OFF WEIGHT.....1156 Kg**

**B...UTILITY CATEGORY OPERATIONS:-**

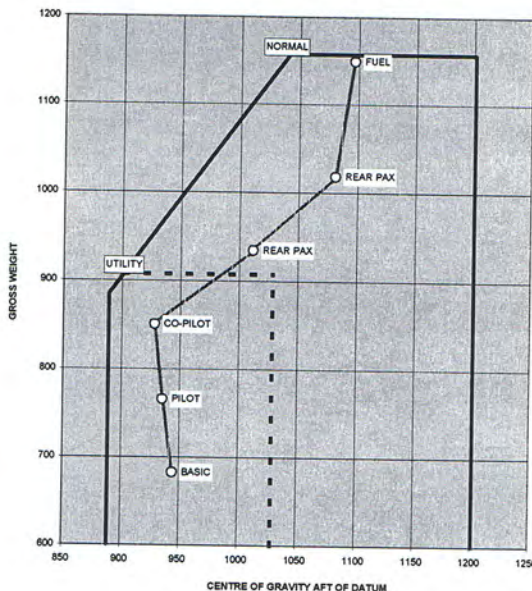
No Limitations except Utility Category All Up Weight Limit

**MAXIMUM TAKE-OFF WEIGHT.....907 Kg**

NOTE: In utility category operations, the baggage compartment must be empty and the rear seat unoccupied.

NOTE: If a full Loading Check is required, refer to Loading Instructions and Tables in the Pilots Handbook.

CESSNA 172M - SA4428SW AND SA2196CE



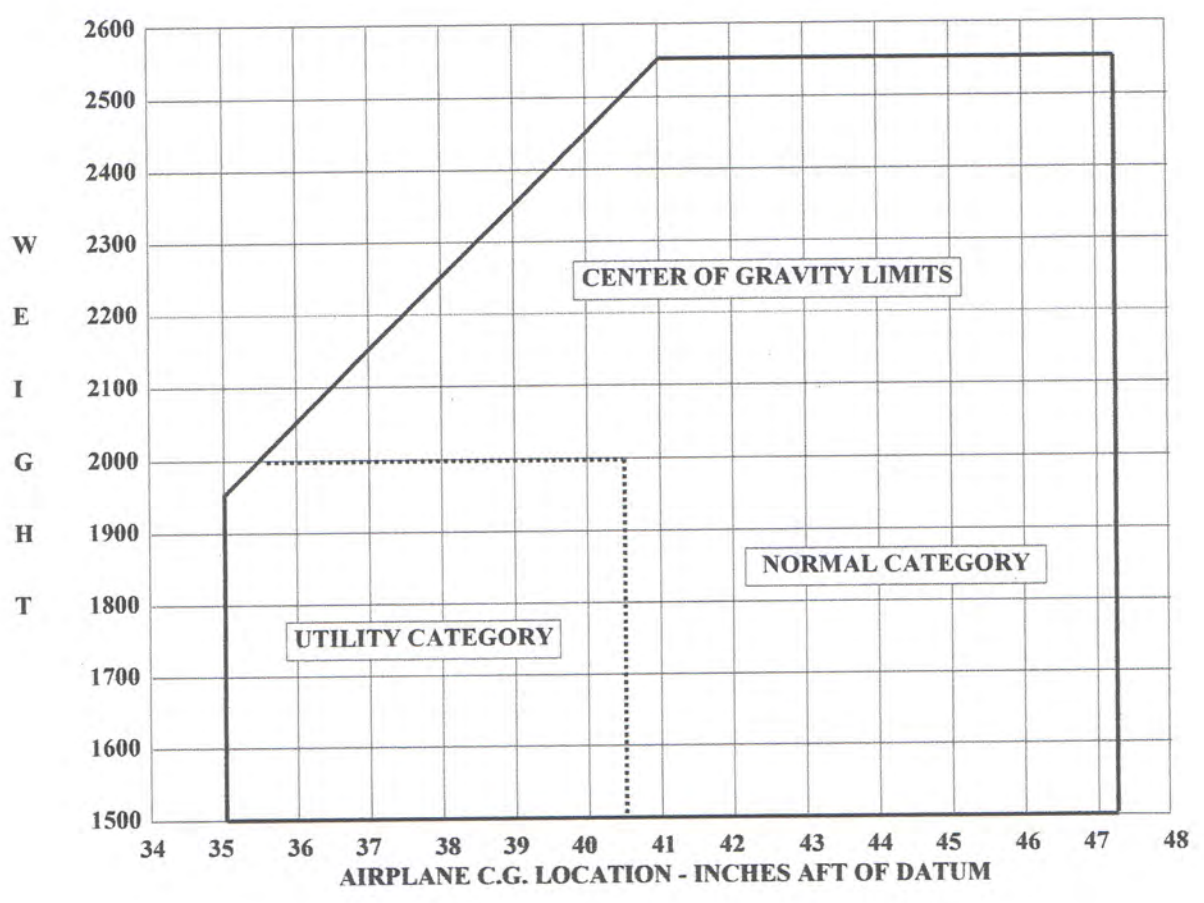
MAIN PLOT - BASIC AIRCRAFT PLUS FOUR OCCUPANTS @ 84 Kg EACH WITH FUEL TO TAKE-OFF WEIGHT

EMPTY WT 682.39 KG 1507.5 LB  
 MAX WT 1156 KG 2550 LB

Cessna 172-180HP JZJ  
 Weight & Balance


	<u>Weight</u>		<u>Arm</u>		<u>Moment</u>
Basic Empty Wt. (Includes unusable fuel and full oil)	<u>1504.5</u>		<u>37.18</u>		<u>55937</u>
Pilot _____	_____	x	37.0	=	_____
Co-Pilot _____	_____	x	37.0	=	_____
Rear Seat _____	_____	x	73.0	=	_____
Rear Seat _____	_____	x	73.0	=	_____
Baggage Area 1 (120 Lbs. Max)	_____	x	95.0	=	_____
Baggage Area 2 (50 Lbs. Max) (The maximum allowable combined weight capacity for baggage areas 1 and 2 is 120 lbs.)	_____	x	123.0	=	_____
Usable Fuel _____ Gals. x 6 Lb. /Gal =	_____	x	47.9	=	_____
<b>Total Weight &amp; Moment</b>	_____				_____
	(2,550 Lbs. Max)				

$$\frac{\text{Total Moment}}{\text{Total Weight}} = \text{C.G.}$$



## WEIGHT AND BALANCE RECORD

**Part A - Weight & Balance Maintenance Data** (to be completed by a Weight and Balance Control Officer (WBCO))

	<b>Weight and Balance Report Ref:</b> BC/JZJ/2		<b>Revision and Re-Issue Required</b> INDEFINITE												
	<b>Centre of Gravity Position (CG) is</b> LONGITUDINAL (delete as appropriate) AFT measured.....of datum	<b>Configuration:</b>  FOUR SEATS TOTAL			<b>Empty Weight and Empty Weight CG</b> Weighing or Validation dated..... 15-Nov-17										
	<b>Aircraft Longitudinal/Lateral Datum</b>  Front Face of Firewall		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 25%;">Weight (Kg)</th> <th style="width: 25%;">Arm (mm)</th> <th style="width: 25%;">Index</th> <th style="width: 25%;"></th> </tr> <tr> <td style="text-align: center;">682.39</td> <td style="text-align: center;">944.37</td> <td style="text-align: center;">644426</td> <td></td> </tr> </table>		Weight (Kg)	Arm (mm)	Index		682.39	944.37	644426				
	Weight (Kg)	Arm (mm)	Index												
682.39	944.37	644426													
		<b>Maximum and Minimum Empty Weight &amp; Empty Weight CG.</b> Revision and Re-issue by WBCO is required when calculated running totals are													
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 25%;">Weight (Kg)</th> <th style="width: 25%;">Arm (mm)</th> <th style="width: 25%;"></th> <th style="width: 25%;"></th> </tr> <tr> <td style="text-align: center;">MORE THAN 682.39</td> <td style="text-align: center;">950.61</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">or LESS THAN 672.39</td> <td style="text-align: center;">938.12</td> <td></td> <td></td> </tr> </table>		Weight (Kg)	Arm (mm)			MORE THAN 682.39	950.61			or LESS THAN 672.39	938.12		
Weight (Kg)	Arm (mm)														
MORE THAN 682.39	950.61														
or LESS THAN 672.39	938.12														

**Part B - Record of Empty Weight and Balance Changes** (the person co-ordinating maintenance shall ensure that Part B is calculated and recorded in accordance with CAO 100.7)

Date	Description of Alteration	Moment Arm from Datum (mm)	Weight and Balance Change				Running Total of Empty Weight & Empty Weight CG		
			Added (+)		Removed (-)		Weight (Kg)	Arm (mm)	Index
			Weight (Kg)	Index	Weight (Kg)	Index			
15.11.17	WEIGHING (ACTUAL) PER CAO 100.7 - UNUSABLE FUEL AND FULL OIL						682.39	944.4	644426

Organisation      BANKSTOWN AIRCRAFT MAINTENANCE	Aircraft Type      CESSNA 172M	Registration      VH-JZJ Serial                17265926	Page                 TWO
--	--------------------------------	--	--------------------------

**WEIGHT AND BALANCE RECORD**



**SECTION 6: WEIGHT AND BALANCE**

**LOAD DATA SHEET - PAGE 1 OF 3 - AEROPLANE WEIGHT**

Aeroplane Type:..... CESSNA 172M

Registration Marking:..... VH-JZJ      Serial No: 17265926

ISSUE:..... TWO	DATE:..... 15-Nov-17	EXPIRY:..... INDEFINITE
-----------------	----------------------	-------------------------

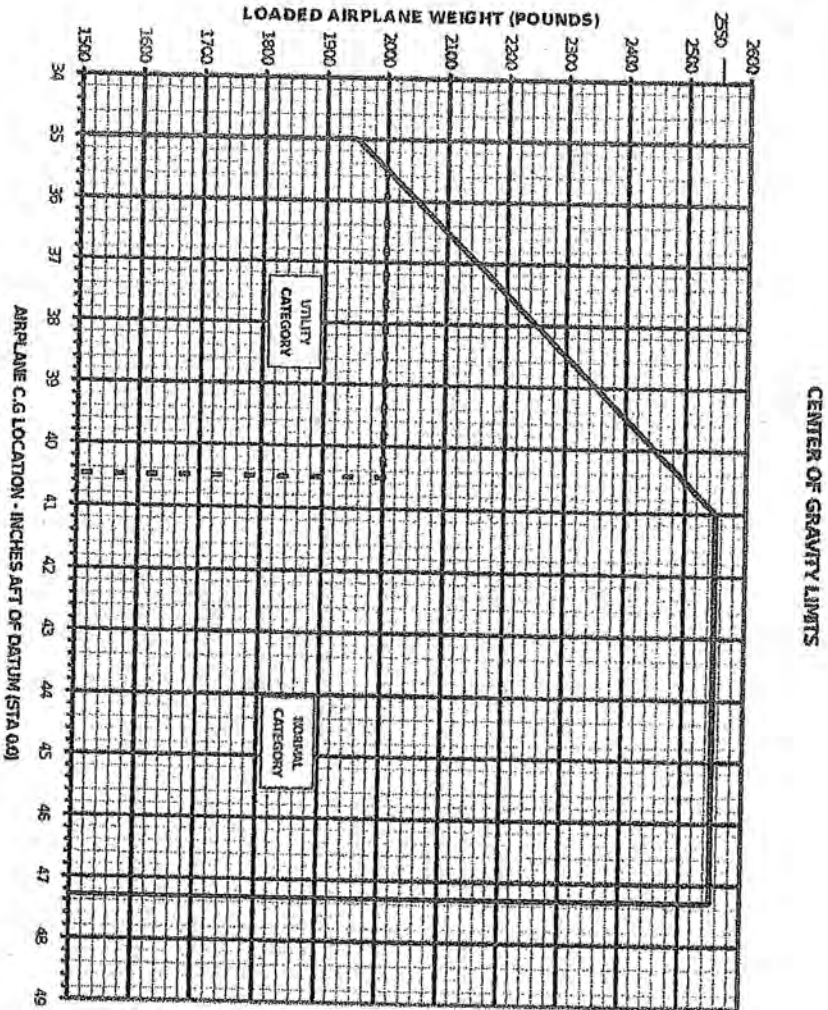
**AEROPLANE WEIGHT AND CENTRE OF GRAVITY DATA:**

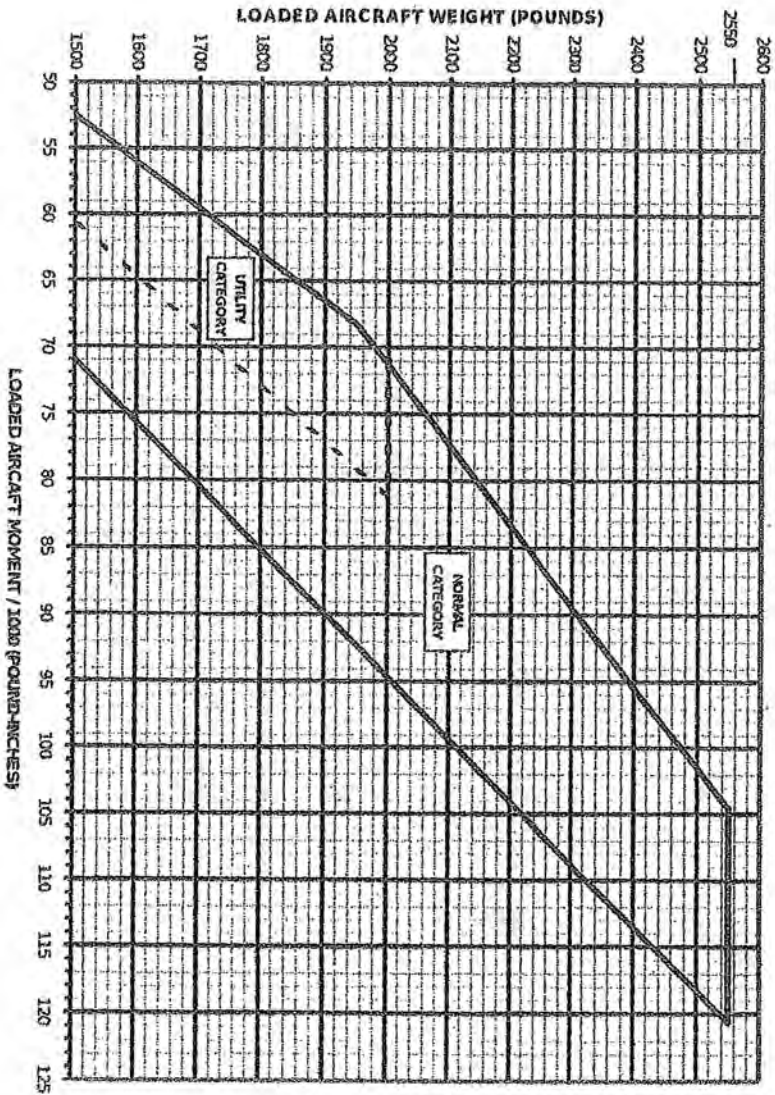
ITEM	WEIGHT (Kg)	ARM (mm aft of datum)	MOMENT (Kg.mm)	CABIN CONFIGURATION
EMPTY	682.4	944	644426	FOUR SEATS TOTAL
STANDARD CABIN CONFIGURATION STC SA4428SW - LYCOMING180 HP ENGINE STC SA2196CE - GROSS WEIGHT INCREASE				
THE FOLLOWING IMPERIAL UNITS ARE FOR USE WITH THE PILOTS HANDBOOK				
	(lb)	(in)	(in.lb/1000)	
EMPTY	1504.4	37.2	55.93	FOUR SEATS TOTAL

NOTE: The above empty weights include:-

EMPTY - unusable fuel and full oil

**AeroWeigh Pty. Ltd.**  
 BRUCE GIBSON  
 AUTHORITY  
 MOBILE 0412 58 5551





## SECTION 5: PERFORMANCE

### LANDING DISTANCE - SHORT FIELD

#### CONDITIONS:

Flaps 30°

#### NOTES:

If a landing with flaps up is necessary, increase approach speed by 9 KIAS and allow for 35% longer distance.

Weight LBS	Speed At 50 Ft KIAS	Press Alt Ft	0°C		10°C		20°C		30°C		40°C	
			Grnd Roll Ft	Total Ft To Clear 50 Ft Obs	Grnd Roll Ft	Total Ft To Clear 50 Ft Obs	Grnd Roll Ft	Total Ft To Clear 50 Ft Obs	Grnd Roll Ft	Total Ft To Clear 50 Ft Obs	Grnd Roll Ft	Total Ft To Clear 50 Ft Obs
			2550	62	S.L	545	1290	565	1320	585	1350	605
		1000	565	1320	585	1350	605	1385	625	1420	650	1450
		2000	585	1355	610	1385	630	1420	650	1455	670	1490
		3000	610	1385	630	1425	655	1460	675	1495	695	1530
		4000	630	1425	655	1460	675	1495	700	1535	725	1570
		5000	655	1460	680	1500	705	1535	725	1575	750	1615
		6000	680	1500	705	1540	730	1580	755	1620	780	1660
		7000	705	1545	730	1585	760	1625	785	1665	810	1705
		8000	735	1585	760	1630	790	1670	815	1715	840	1755



**CRUISE FUEL CONSUMPTION**

(Not FAA Approved)

Conditions:

2550 Pounds

Recommended Lean Mixture		20°C Below Standard Temp.		Standard Temperature		20°C Above Standard Temp.	
Press. Alt Feet	RPM	% BHP	GPH	% BHP	GPH	% BHP	GPH
2000	2550	---	---	76	10.2	72	9.6
	2500	77	10.3	72	9.6	68	9.1
	2400	69	9.2	64	8.7	61	8.3
	2300	61	8.3	58	7.9	55	7.6
	2200	55	7.5	52	7.2	49	6.9
4000	2100	49	6.8	46	6.6	43	6.3
	2600	---	---	76	10.2	72	9.6
	2500	73	9.7	68	9.2	65	8.7
	2400	65	8.8	62	8.3	58	8.0
	2300	58	8.0	55	7.6	52	7.3
6000	2200	52	7.3	49	6.9	47	6.6
	2100	46	6.6	44	6.3	41	6.1
	2650	---	---	76	10.1	72	9.6
	2600	77	10.3	72	9.6	68	9.1
	2500	69	9.3	65	8.8	62	8.4
8000	2400	62	8.4	59	8.0	56	7.6
	2300	56	7.7	53	7.3	50	7.0
	2200	50	7.0	47	6.7	44	6.4
	2700	---	---	76	10.1	71	9.5
	2600	73	9.8	69	9.2	65	8.7
10,000	2500	66	8.6	62	8.4	59	8.0
	2400	59	8.1	56	7.7	53	7.3
	2300	53	7.4	50	7.0	47	6.7
	2200	47	6.7	45	6.4	42	6.1
	2700	77	10.2	72	9.6	68	9.1
12,000	2600	69	9.3	65	8.8	62	8.4
	2500	63	8.5	59	8.1	56	7.7
	2400	57	7.8	53	7.4	50	7.0
	2300	51	7.1	48	6.8	45	6.5
	2700	69	9.3	65	8.8	62	8.4
12,000	2600	66	8.9	62	8.4	59	8.0
	2500	60	8.2	56	7.7	53	7.4
	2400	54	7.5	51	7.1	48	6.7
	2300	48	6.8	45	6.5	42	6.2