



AVIATEURS.QUÉBEC

FORMATION FOREFLIGHT

Le masse et centrage

Le définir dans Foreflight et l'utiliser

Patrick Remy, CPL, IFR



AVIATEURS.QUÉBEC

**LA PRÉSENTATION DE CETTE FORMATION EST RENDUE
POSSIBLE GRÂCE
AU FONDS LAPLANTE-DUGGAN POUR LA SÉCURITÉ AÉRIENNE**



**CONTRIBUER À LA PÉRENNITÉ DE NOTRE MISSION DE
PROMOUVOIR LA SÉCURITÉ AÉRIENNE.**

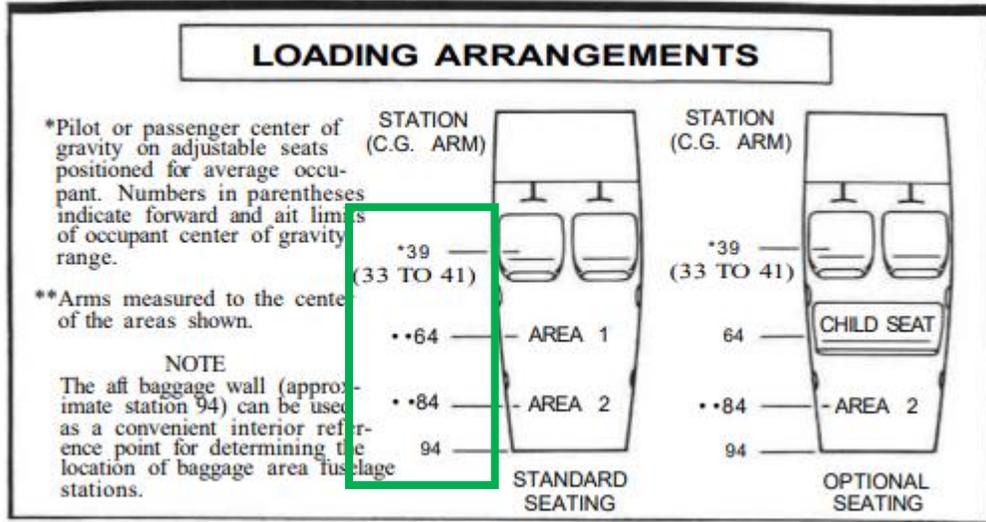
[CLIQUER ICI POUR FAIRE VOTRE DON](#)

FOREFLIGHT MOBILE



- ✓ Quelle information rassembler (M&C, POH) ;
- ✓ Comment entrer cette information dans Foreflight et créer le graphique nécessaire (enveloppe)
- ✓ Comment utiliser le M&C de Foreflight dans la vie

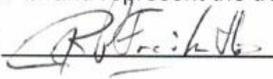
QUELLE INFORMATION RASSEMBLER (M&C, POH)



	Weight	C of G	Moment	Pay load
Aircraft empty weight on wheel	1029,6	32,9	33860,1	
Wheel configuration	1029,6	32,9	33860,1	570,4
Skis configuration	1029,6	32,6	33533,1	570,4

Equipment list amended to reflect above changes

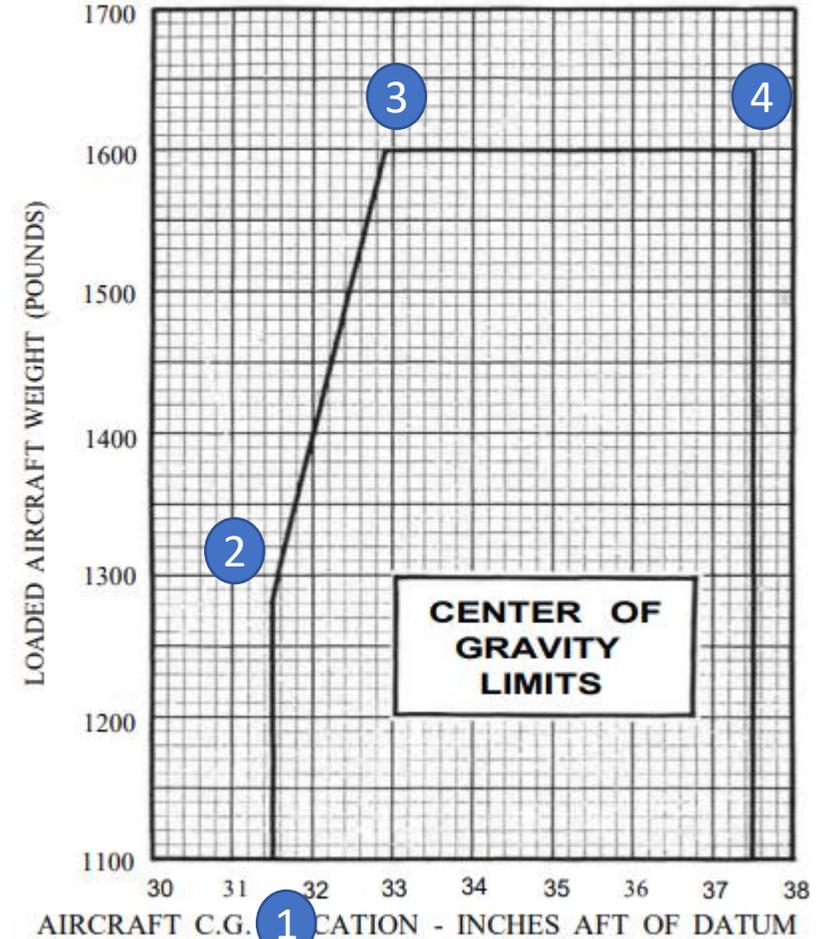
I hereby certify that all work carried out was done in accordance with the provisions of R.A.C. 571 Appendix 'C' and represent the true empty weight and center of gravity of this aircraft.

P. Fréchette  M158021

08 Jan 2021

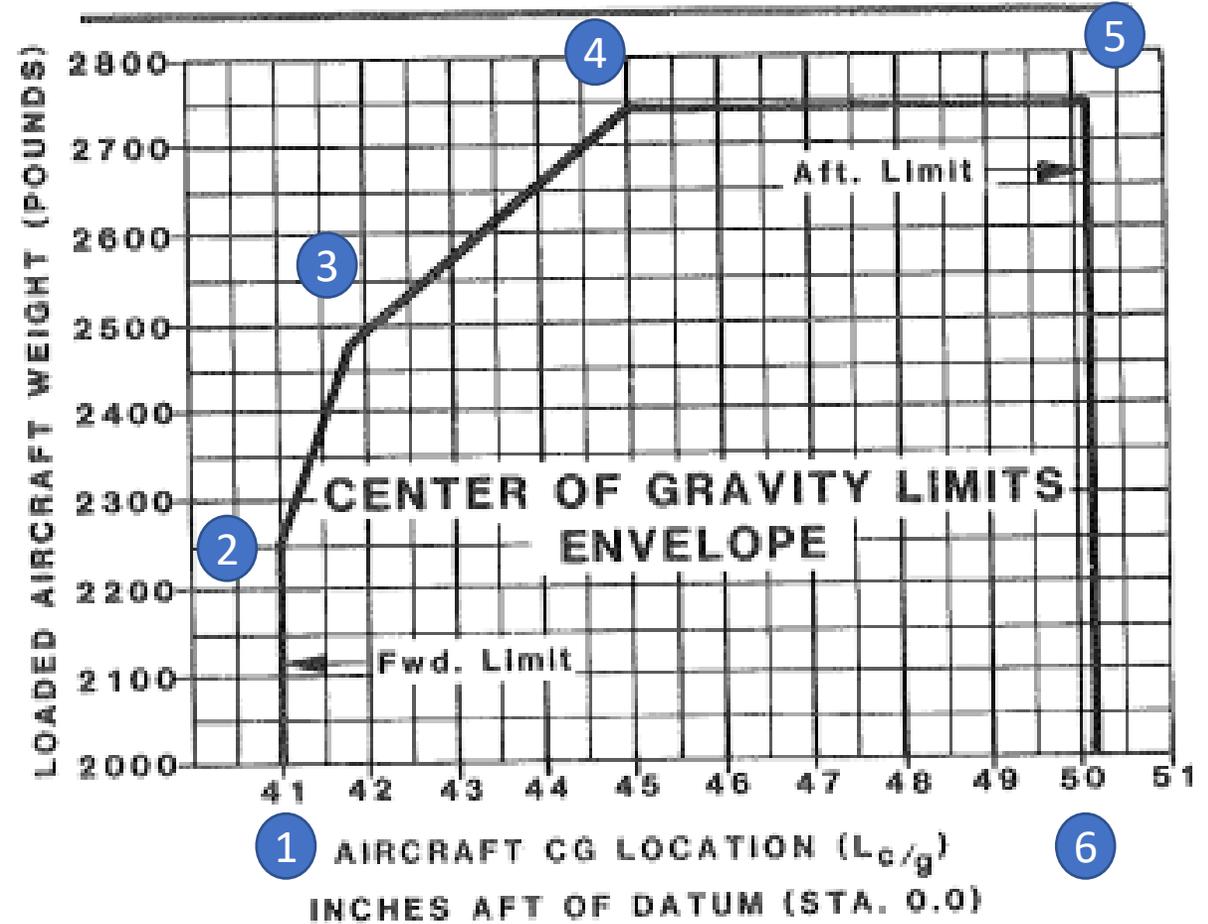
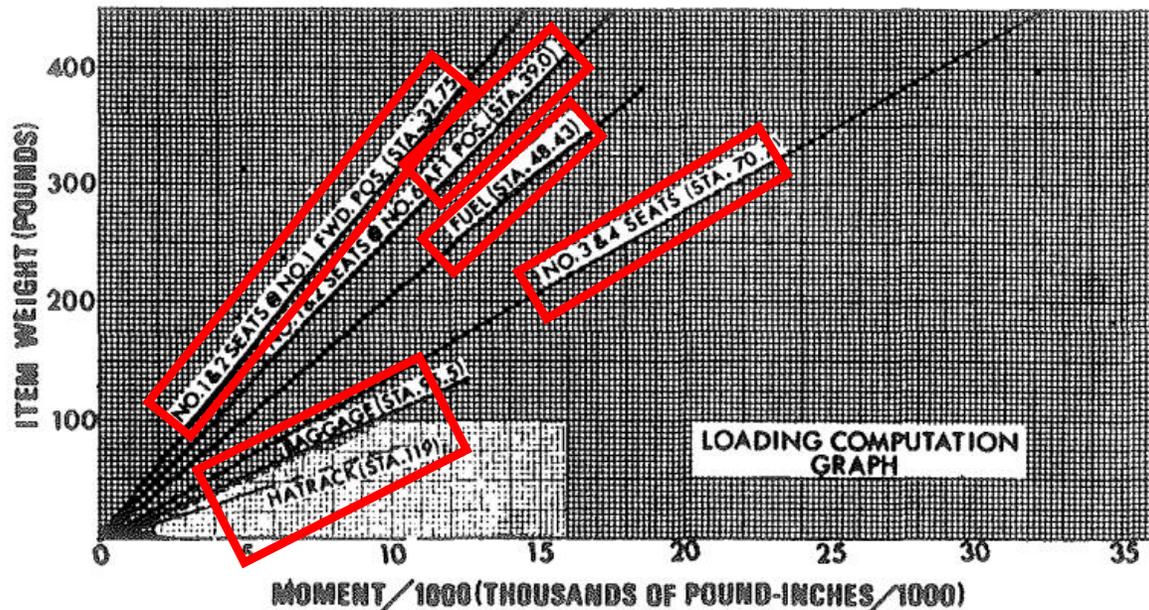
SECTION 6 WEIGHT & BALANCE/ EQUIPMENT LIST

CESSNA
MODEL 150M

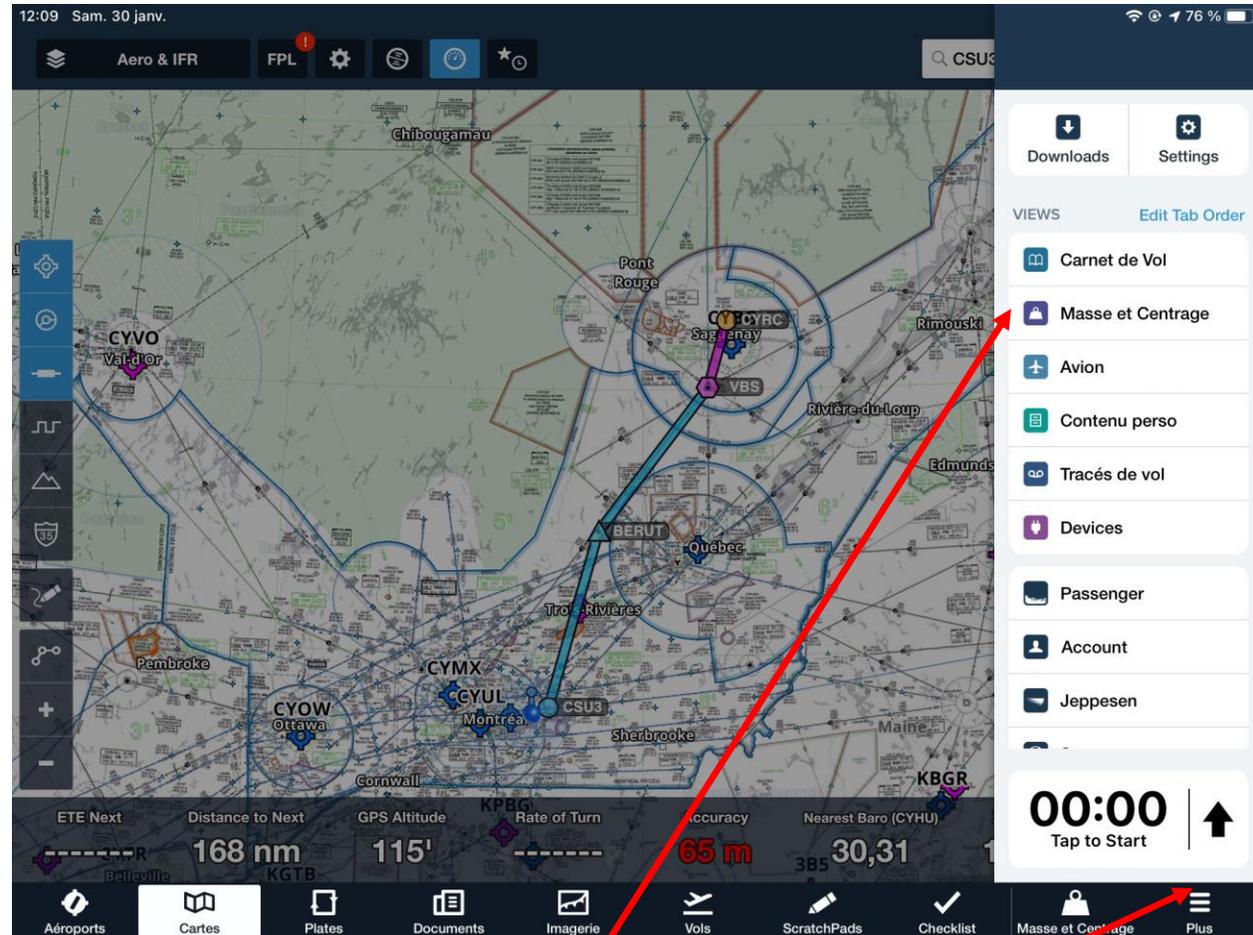


QUELLE INFORMATION RASSEMBLER (M&C, POH)

Most Forward-41.0 In. (Fus. Sta. in IN.)
 13.4% MAC.....2250 lb.
 (1021 Kg.)
 Intermediate Forward-41.8 In. (Fus. Sta. in In.)
 14.7% MAC.....2470 lb.
 (1120 Kg.)
 Forward Gross-45.0 IN. (Fus. Sta. in IN.)
 20.1% MAC.....2740 lb.
 (1243 Kg.)
 Aft Gross-50.1 IN. (Fus. Sta. in IN.)
 38.7% MAC.....2740 lb.
 (1243 Kg.)
 MAC (at Wing Sta. 93.83).....59.18 In.

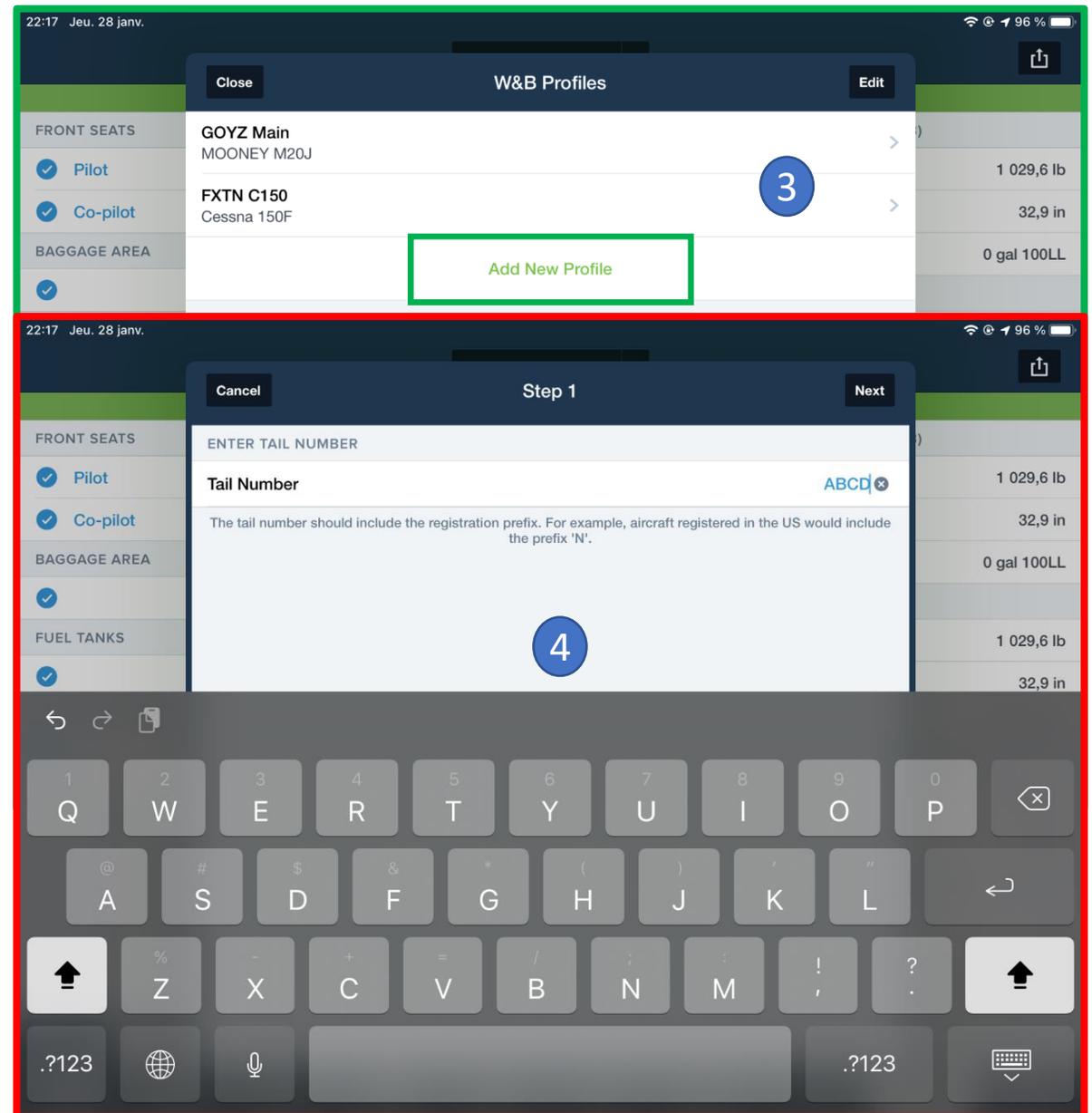


COMMENT ENTRER L'INFORMATION DANS FOREFLIGHT – CRÉER UN PROFIL

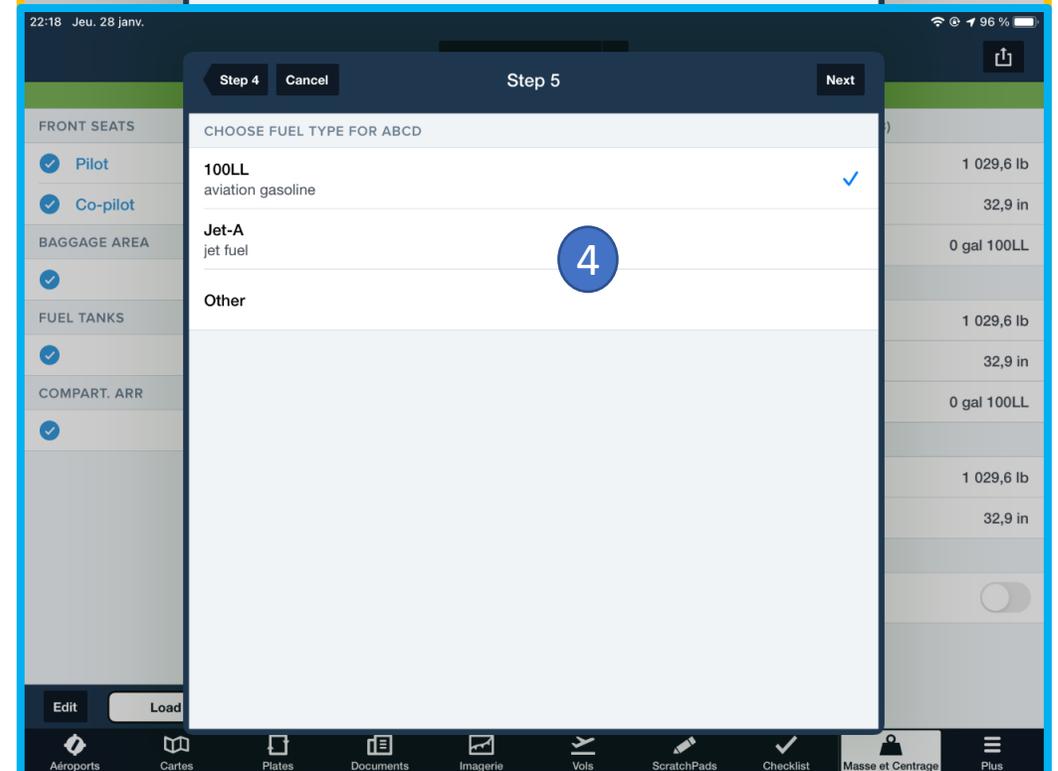
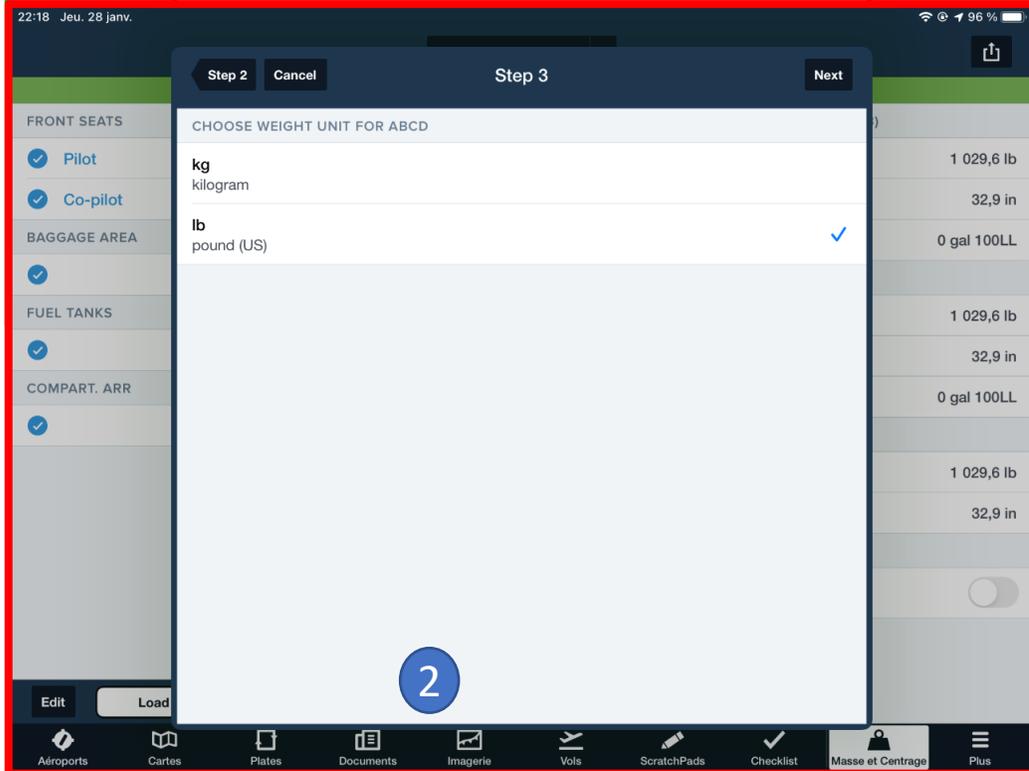
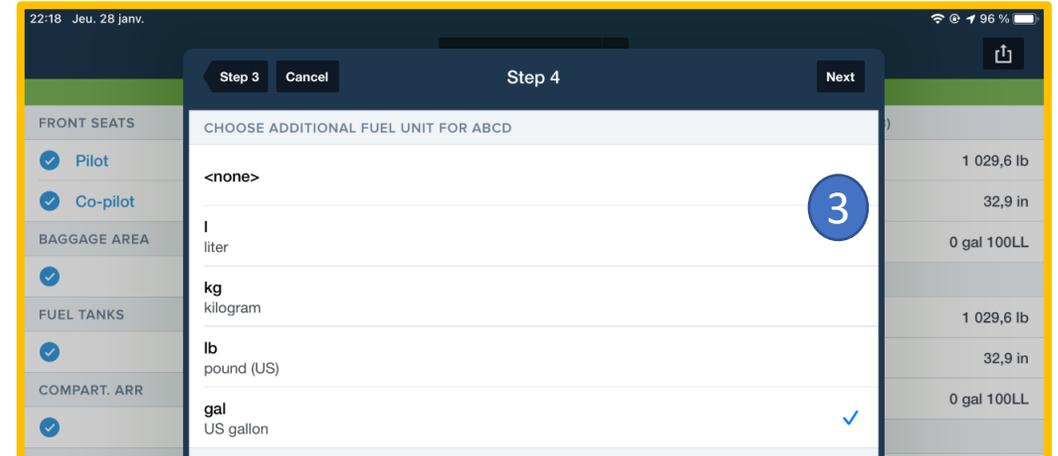
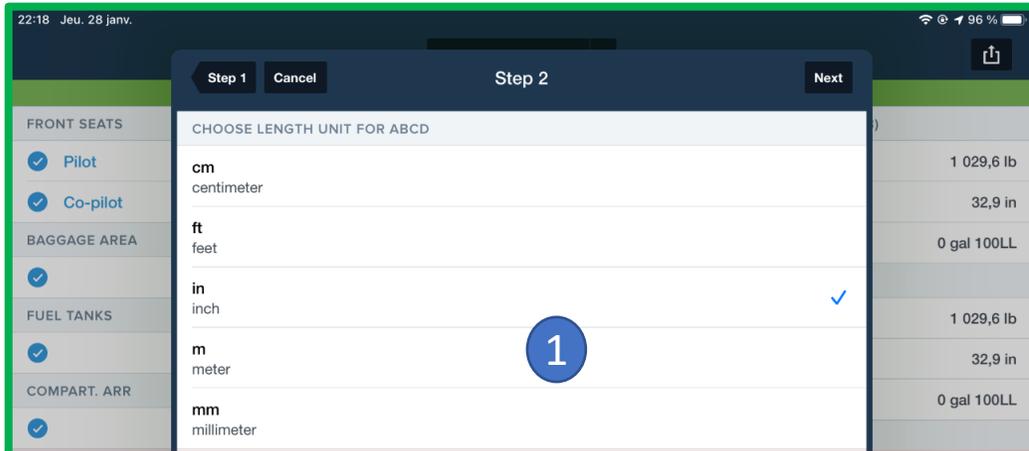


2

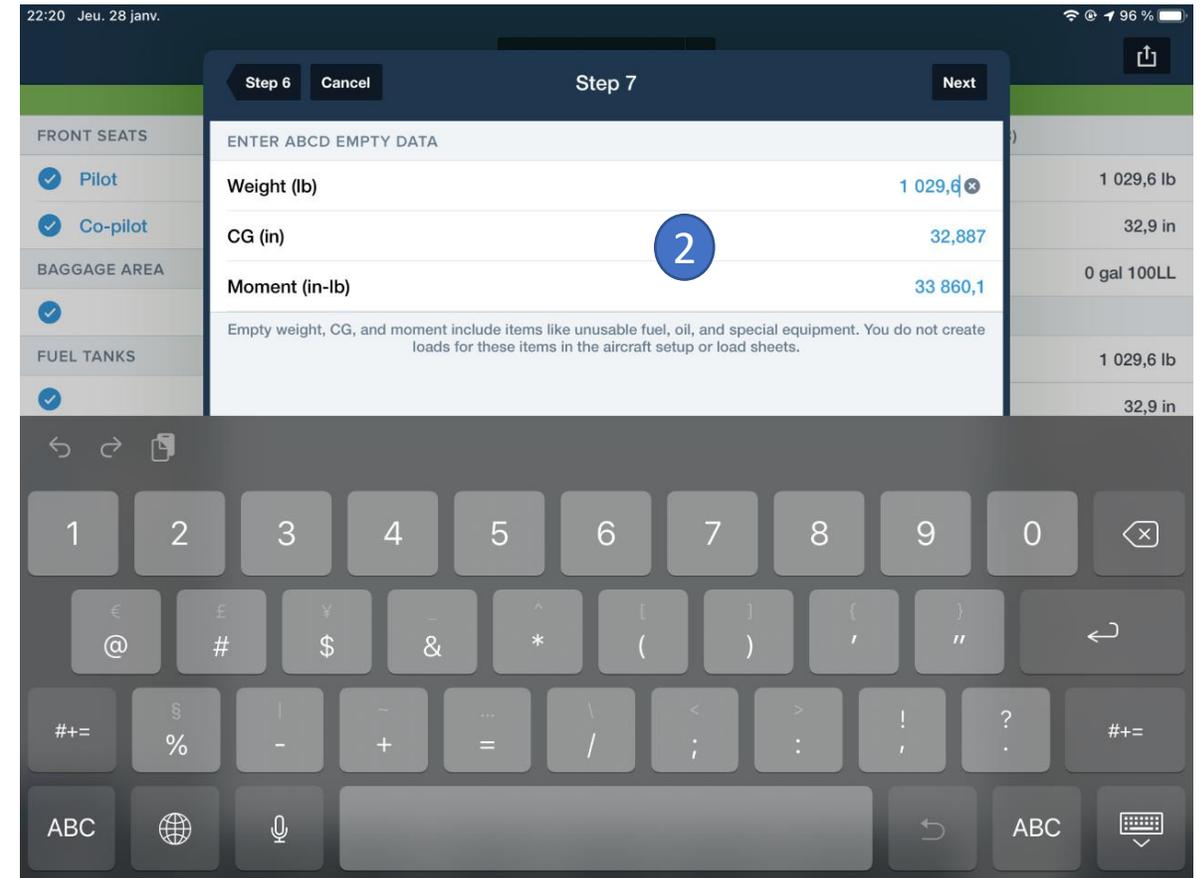
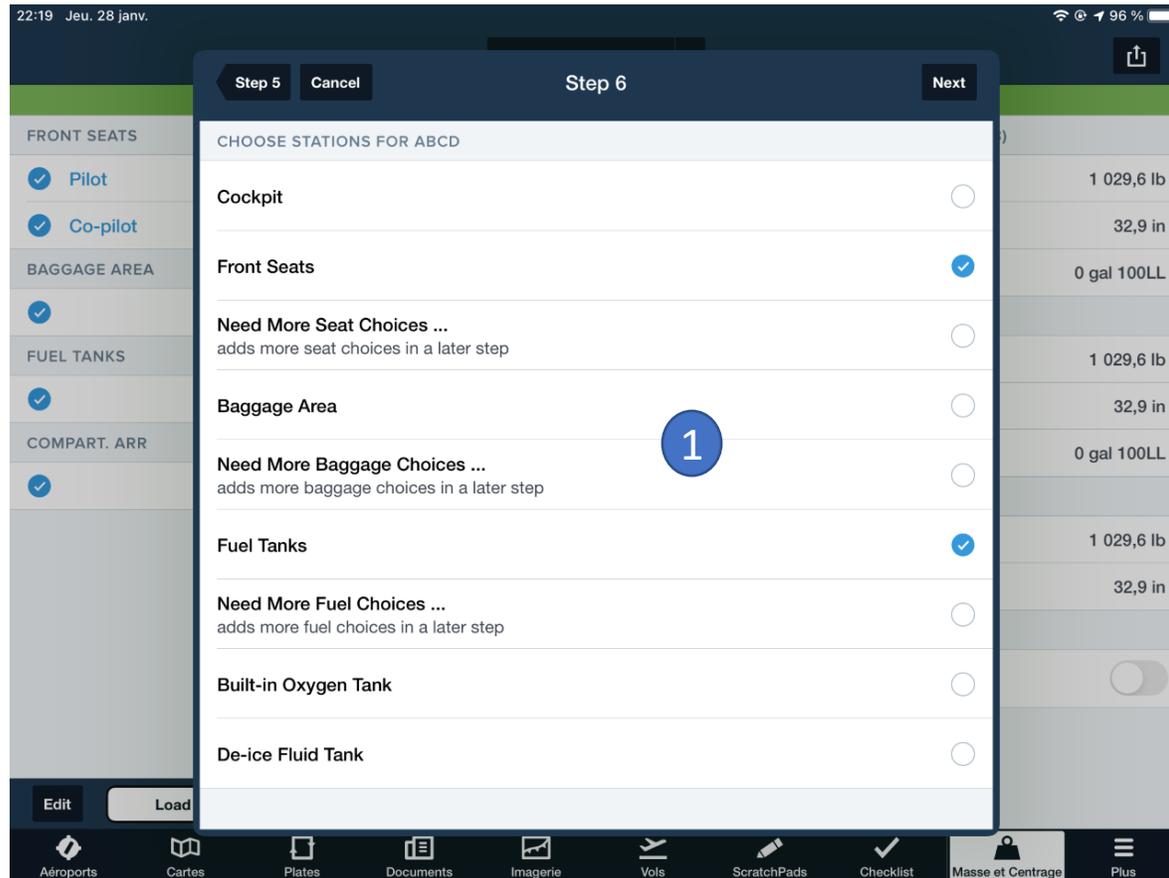
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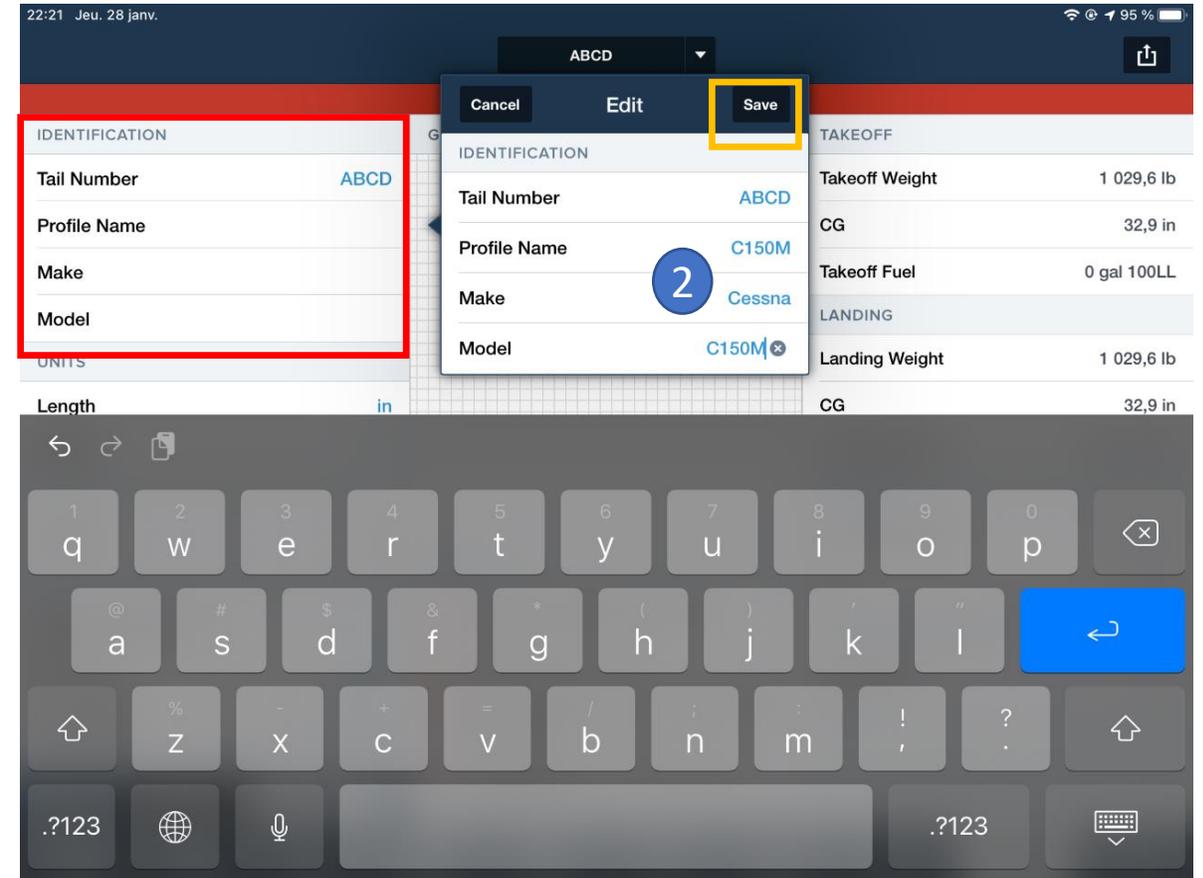
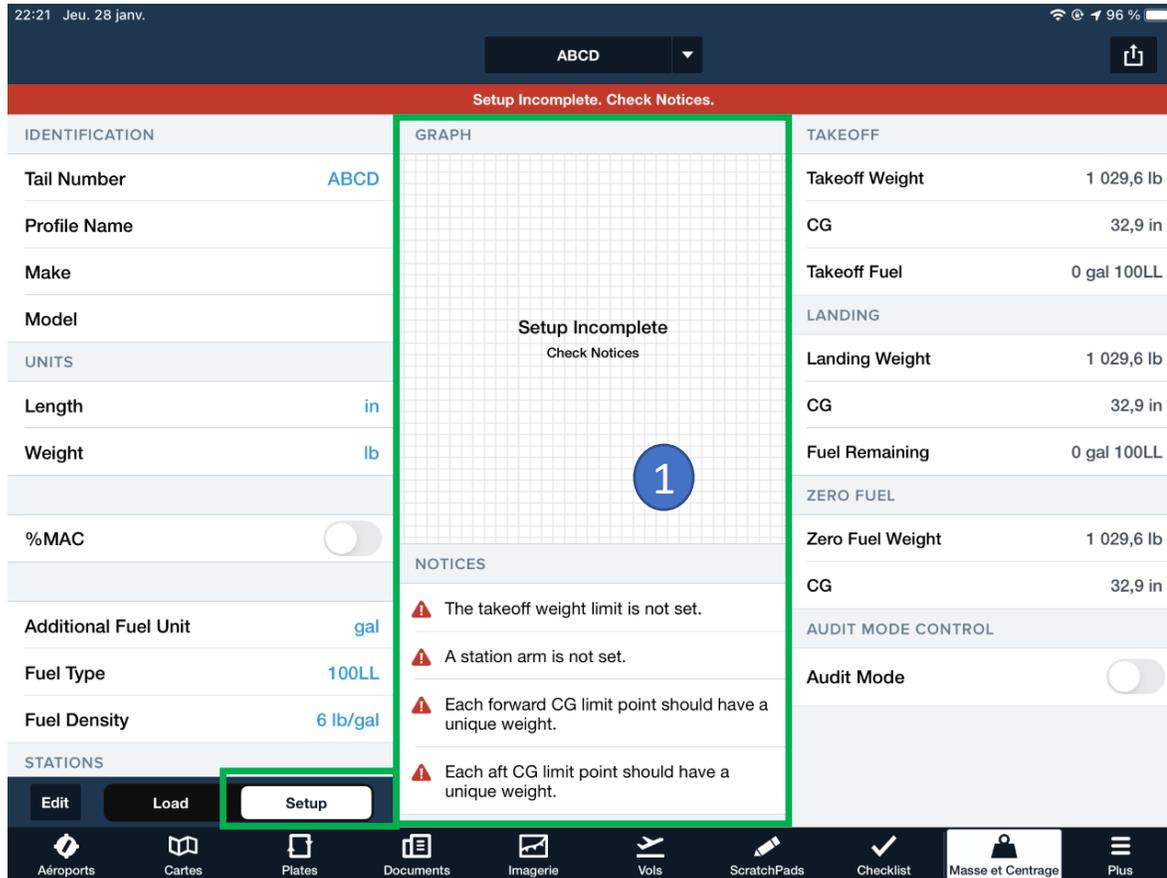
COMMENT ENTRER L'INFORMATION DANS FOREFLIGHT – DONNÉES BASE



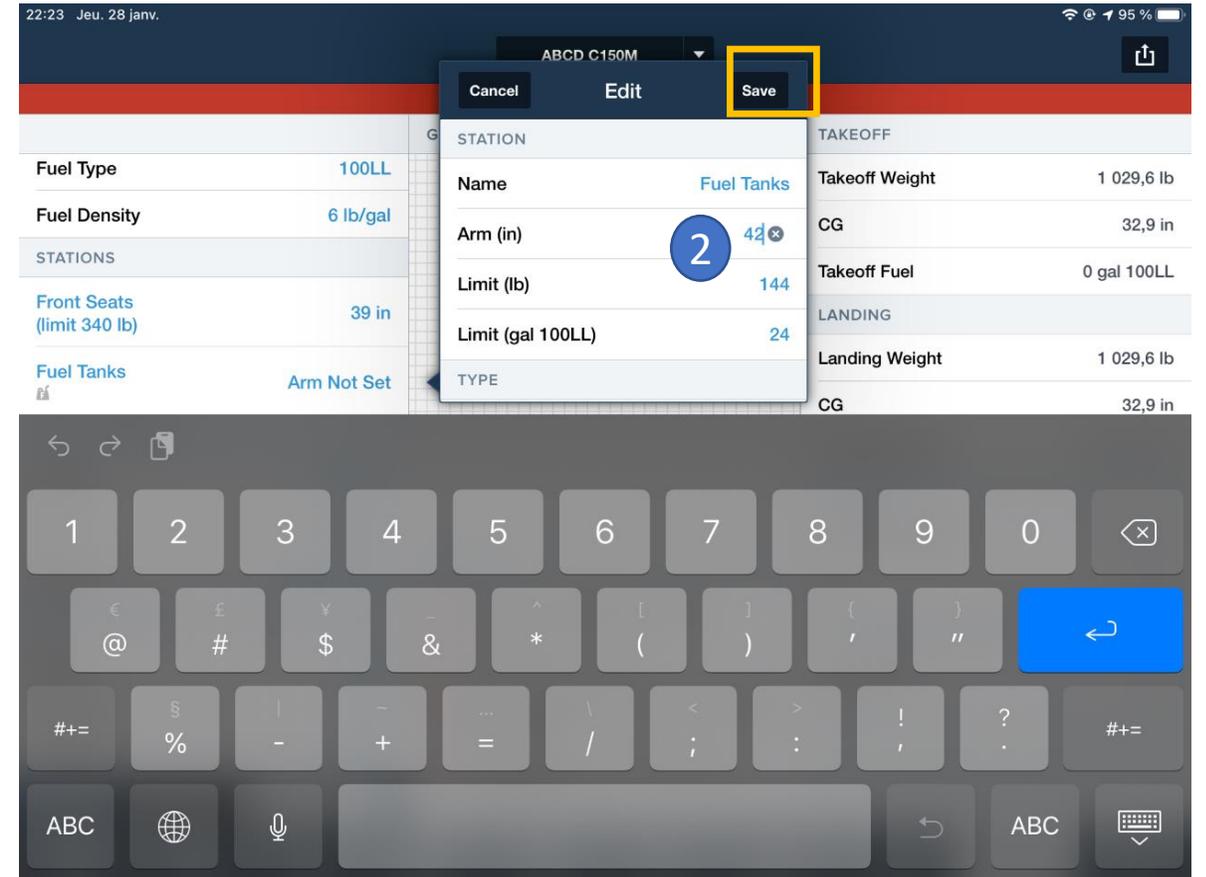
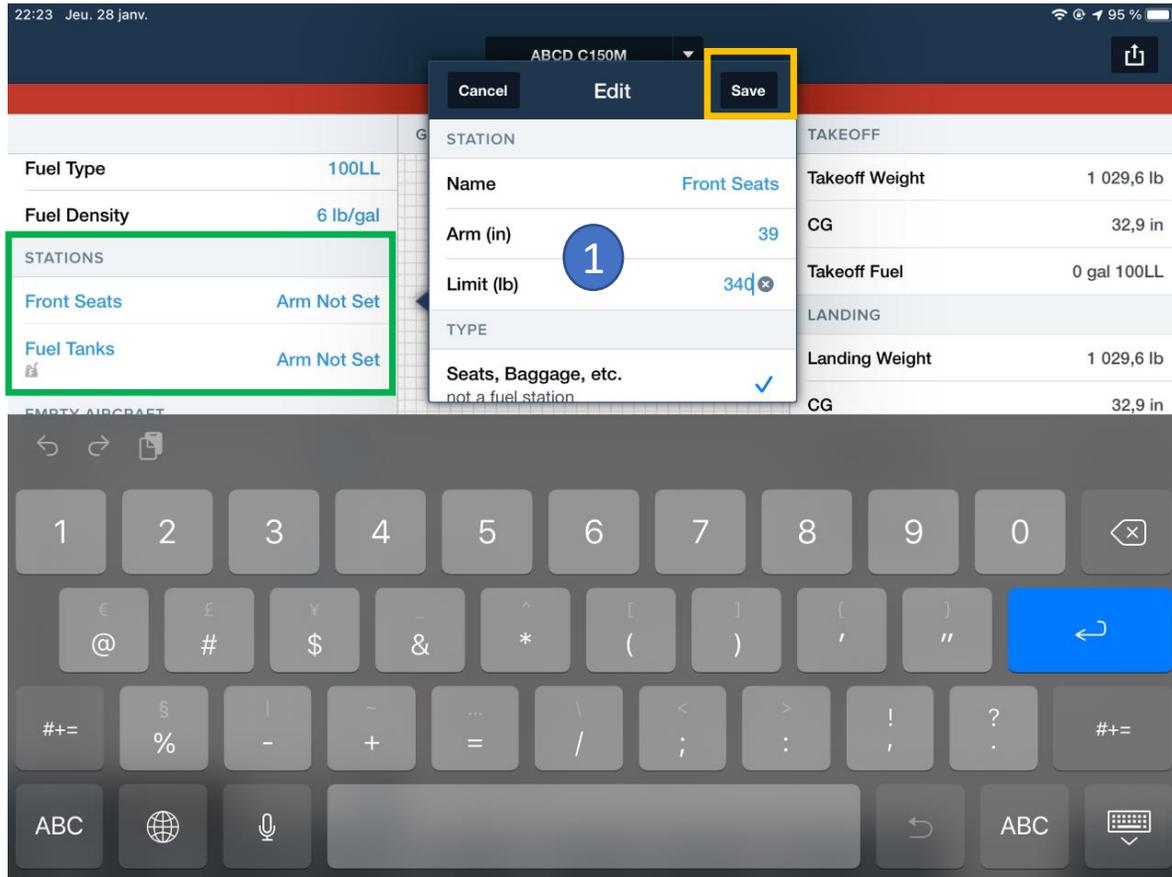
COMMENT ENTRER L'INFORMATION DANS FOREFLIGHT – DONNÉES BASE



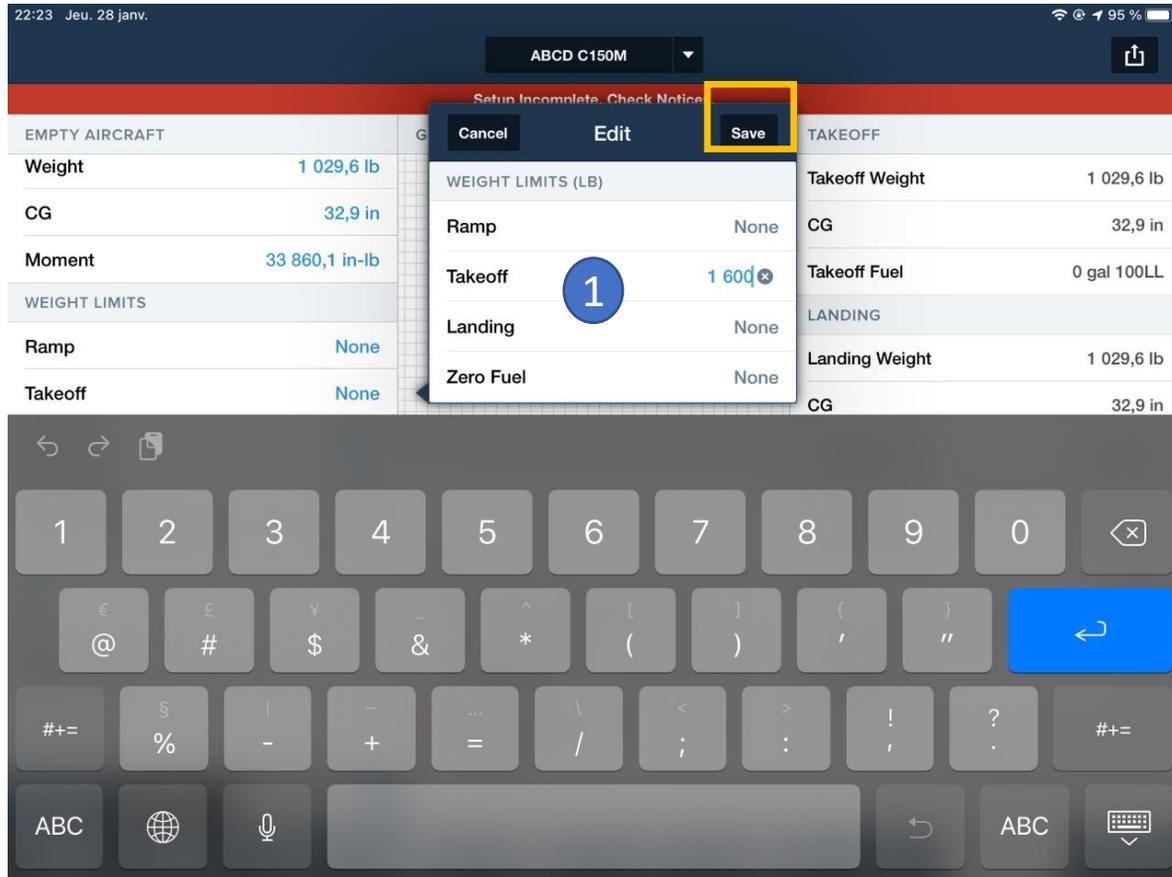
COMMENT ENTRER L'INFORMATION DANS FOREFLIGHT –SET UP



COMMENT ENTRER L'INFORMATION DANS FOREFLIGHT –SET UP



COMMENT ENTRER L'INFORMATION DANS FOREFLIGHT –SET UP



COMMENT ENTRER L'INFORMATION DANS FOREFLIGHT –SET UP

22:21 Jeu. 28 janv. ABCD 96%

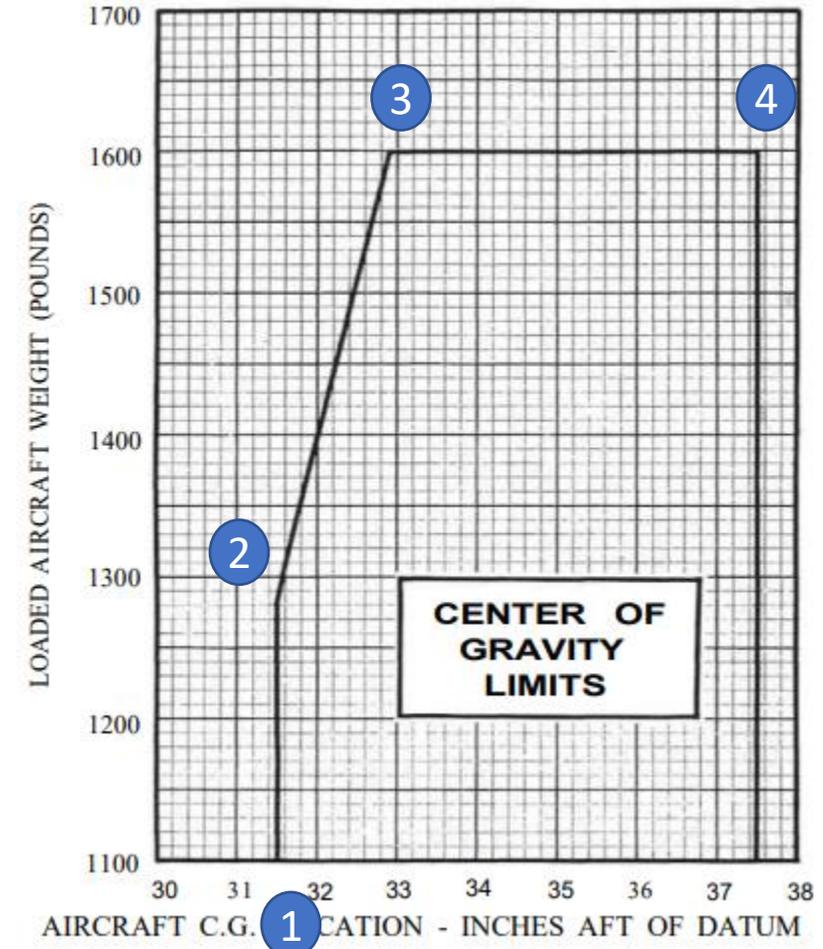
Setup Incomplete. Check Notices.

EMPTY AIRCRAFT	GRAPH	TAKEOFF	
CG 32,9 in		Takeoff Weight 1 029,6 lb	
Moment 33 860,1 in-lb		CG 32,9 in	
WEIGHT LIMITS		Takeoff Fuel 0 gal 100LL	
Ramp None		<p>Setup Incomplete Check Notices</p> <p>NOTICES</p> <ul style="list-style-type: none"> The takeoff weight limit is not set. A station arm is not set. Each forward CG limit point should have a unique weight. Each aft CG limit point should have a unique weight. 	LANDING
Takeoff 1 600 lb			Landing Weight 1 029,6 lb
Landing None			CG 32,9 in
Zero Fuel None			Fuel Remaining 0 gal 100LL
FORWARD CG LIMITS		ZERO FUEL	
31,5 in 1 029,6 lb		<p>AUDIT MODE CONTROL</p> <p>Audit Mode <input type="checkbox"/></p>	Zero Fuel Weight 1 029,6 lb
31,5 in 1 270 lb			CG 32,9 in
32,8 in 1 600 lb	AUDIT MODE CONTROL		
37,5 in 1 600 lb	Audit Mode <input type="checkbox"/>		
37,5 in 1 029,6 lb	AFT CG LIMITS		

Bottom navigation bar: Aéroports, Cartes, Plats, Documents, Imagerie, Vols, ScratchPads, Checklist, Masse et Centrage, Plus

SECTION 6 WEIGHT & BALANCE/ EQUIPMENT LIST

CESSNA
MODEL 150M



COMMENT ENTRER L'INFORMATION DANS FOREFLIGHT –SET UP

22:24 Jeu. 28 janv. ABCD C150M Setup Incomplete. Check Notices.

EMPTY AIRCRAFT	GRAPH	TAKEOFF (MAX 1 600 LB)
Weight: 1 029,6 lb		Takeoff Weight: 1 029,6 lb
CG: 32,9 in		CG: 32,9 in
Moment: 33 860,1 in-lb		Takeoff Fuel: 0 gal 100LL
WEIGHT LIMITS		
Ramp: None		Landing: Landing Weight: 1 029,6 lb
Takeoff: 1 600 lb		CG: 32,9 in

Modal Form: FORWARD CG LIMIT POINT

CG (in): 31,5

Weight (lb): 1 029,6

Buttons: Cancel, Edit, Save

22:25 Jeu. 28 janv. ABCD C150M Setup Incomplete. Check Notices.

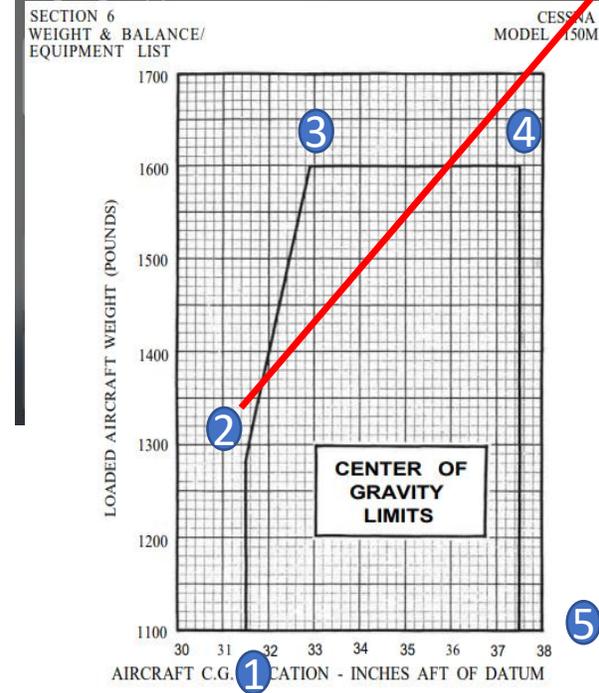
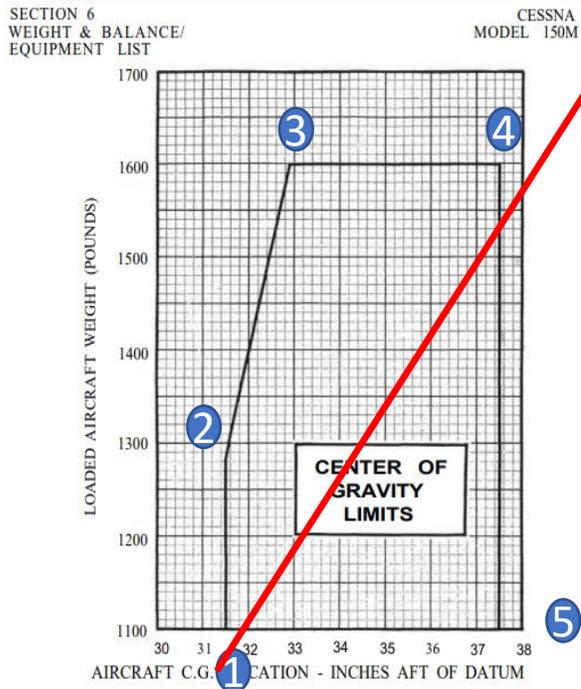
EMPTY AIRCRAFT	GRAPH	TAKEOFF (MAX 1 600 LB)
Weight: 1 029,6 lb		Takeoff Weight: 1 029,6 lb
CG: 32,9 in		CG: 32,9 in
Moment: 33 860,1 in-lb		Takeoff Fuel: 0 gal 100LL
WEIGHT LIMITS		
Ramp: None		Landing: Landing Weight: 1 029,6 lb
Takeoff: 1 600 lb		CG: 32,9 in

Modal Form: FORWARD CG LIMIT POINT

CG (in): 31,5

Weight (lb): 1 270

Buttons: Cancel, Edit, Save



COMMENT ENTRER L'INFORMATION DANS FOREFLIGHT –SET UP

22:25 Jeu. 28 janv. ABCD C150M Setup Incomplete. Check Notices.

EMPTY AIRCRAFT	GRAPH	TAKEOFF (MAX 1 600 LB)
Weight 1 029,6 lb		Takeoff Weight 1 029,6 lb
CG 32,9 in		CG 32,9 in
Moment 33 860,1 in-lb		Takeoff Fuel 0 gal 100LL
WEIGHT LIMITS		LANDING
Ramp None		Landing Weight 1 029,6 lb
Takeoff 1 600 lb		CG 32,9 in

Modal: FORWARD CG LIMIT POINT

CG (in) 32,8

Weight (lb) 1 600

Buttons: Cancel, Edit, Save

22:26 Jeu. 28 janv. ABCD C150M Setup Incomplete. Check Notices.

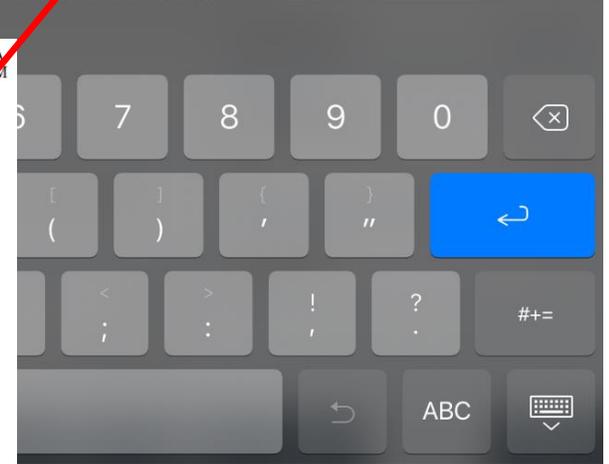
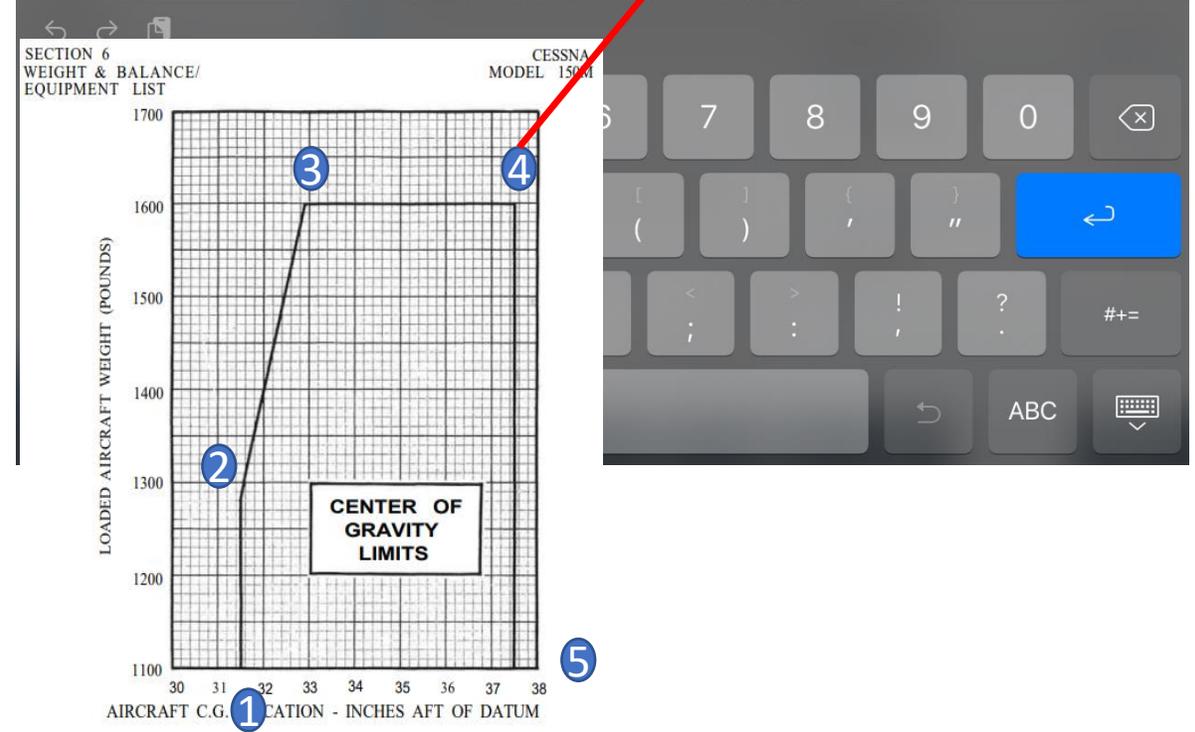
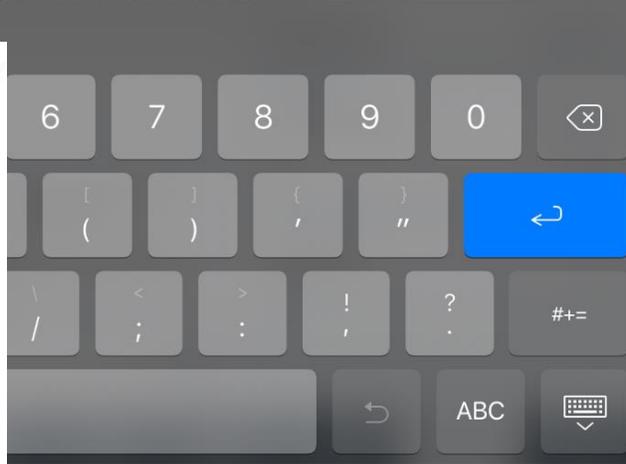
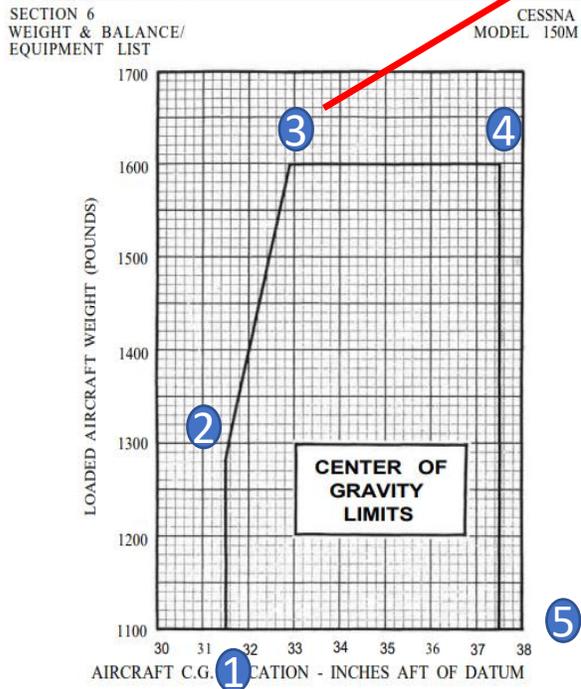
EMPTY AIRCRAFT	GRAPH	TAKEOFF (MAX 1 600 LB)
CG 32,9 in		Takeoff Weight 1 029,6 lb
Moment 33 860,1 in-lb		CG 32,9 in
WEIGHT LIMITS		LANDING
Ramp None		Takeoff Fuel 0 gal 100LL
Takeoff 1 600 lb		Landing Weight 1 029,6 lb
Landing None		CG 32,9 in

Modal: AFT CG LIMIT POINT

CG (in) 37,5

Weight (lb) 1 600

Buttons: Cancel, Edit, Save



COMMENT ENTRER L'INFORMATION DANS FOREFLIGHT –SET UP

22:26 Jeu. 28 janv. ABCD C150M

Setup Incomplete. Check Notices.

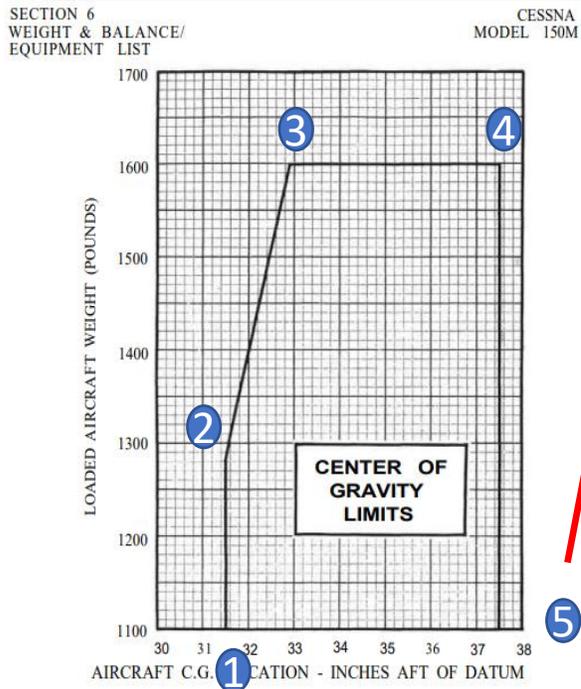
EMPTY AIRCRAFT	GRAPH	TAKEOFF (MAX 1 600 LB)
CG 32,9 in		Takeoff Weight 1 029,6 lb
Moment 33 860,1 in-lb		CG (31,5 to 24,1) 32,9 in
WEIGHT LIMITS		
Ramp None		Takeoff Fuel 0 gal 100LL
Takeoff 1 600 lb		LANDING
Landing None		Landing Weight 1 029,6 lb
		CG (31,5 to 24,1) 32,9 in

Modal Form: AFT CG LIMIT POINT

CG (in) 37,5

Weight (lb) 1 029,6

Buttons: Cancel, Edit, Save



22:27 Jeu. 28 janv. ABCD C150M

Aircraft load is within limits

EMPTY AIRCRAFT	GRAPH	TAKEOFF (MAX 1 600 LB)
CG 32,9 in		Takeoff Weight 1 029,6 lb
Moment 33 860,1 in-lb		CG (31,5 to 37,5) 32,9 in
WEIGHT LIMITS		
Ramp None		Takeoff Fuel 0 gal 100LL
Takeoff 1 600 lb		LANDING
Landing None		Landing Weight 1 029,6 lb
Zero Fuel None		CG (31,5 to 37,5) 32,9 in
		Fuel Remaining 0 gal 100LL
FORWARD CG LIMITS		
31,5 in	1 029,6 lb	
31,5 in	1 270 lb	
32,8 in	1 600 lb	
AFT CG LIMITS		
37,5 in	1 600 lb	
37,5 in	1 029,6 lb	

STATION LIMITS

Front Seats 0 of 340 lb

Fuel Tanks 0 of 24 gal 100LL

Audit Mode Control

Audit Mode

Buttons: Edit, Load, Setup

Bottom Bar: Aéroports, Cartes, Plates, Documents, Imagerie, Vols, ScratchPads, Checklist, Masse et Centrage, Plus

COMMENT ENTRER L'INFORMATION DANS FOREFLIGHT –SET UP

STATIONS

Front Seats (limit 340 lb)	35,3 in
Back Seats (limit 340 lb)	70,7 in
Hat Rack (limit 10 lb)	119 in
Cargo (limit 120 lb)	95,5 in
Rear Seat Cargo (limit 340 lb)	70,7 in
Fuel Tanks (limit 62 gal 100LL)	48,4 in

EMPTY AIRCRAFT

Weight	1 823,8 lb
CG	42,5 in

EMPTY AIRCRAFT

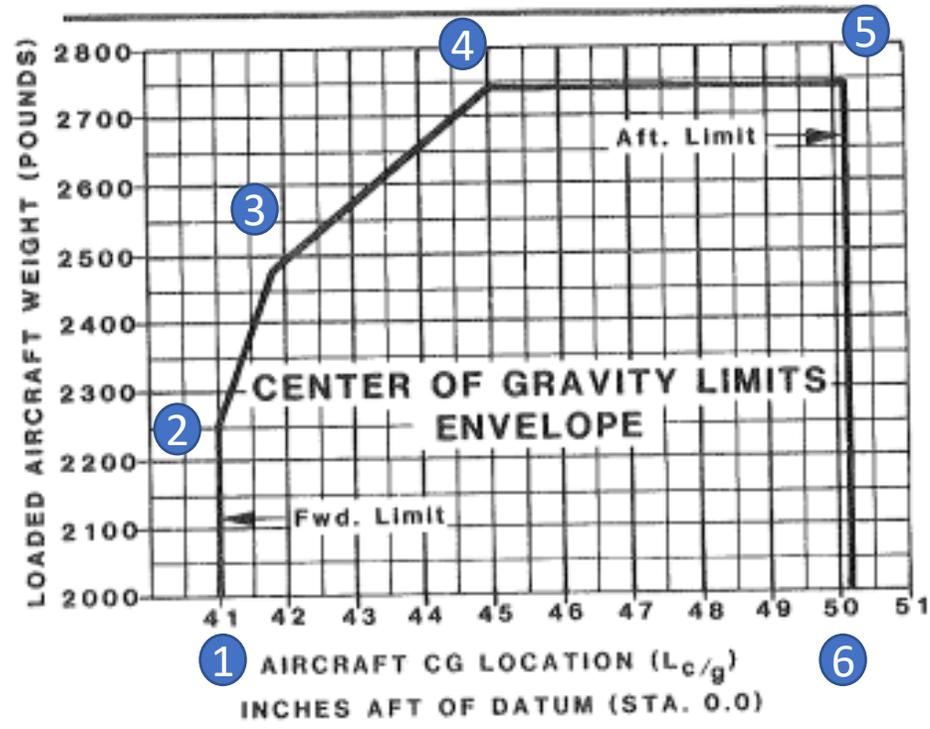
Moment	77 449,52 in-lb
WEIGHT LIMITS	
Ramp	2 740 lb
Takeoff	2 740 lb
Landing	2 740 lb
Zero Fuel	None
FORWARD CG LIMITS	
41 in	1 710 lb
41,8 in	2 470 lb
45 in	2 740 lb
41 in	2 250 lb
AFT CG LIMITS	
50,1 in	2 740 lb
50,1 in	1 710 lb

NOTICES

Overweight: Front Seats (30 lb over)

STATION LIMITS

Front Seats	370 of 340 lb
Back Seats	215 of 340 lb
Hat Rack	0 of 10 lb



COMMENT MODIFIER L'INFORMATION DANS FOREFLIGHT – EDIT

22:27 Jeu. 28 janv. ABCD C150M

Aircraft load is within limits

EMPTY AIRCRAFT	GRAPH	TAKEOFF (MAX 1 600 LB)
CG 32,9 in		
Moment 33 860,1 in-lb		

Pour ajouter une station
Pour ajouter un nouveau point

23:06 Jeu. 28 janv. GOYZ Main

Overweight

GRAPH	RAMP (MAX 2 740 LB)
Additional Fuel Unit gal	
Fuel Type 100LL	
Fuel Density 6 lb/gal	

WEIGHT LIMITS

Ramp	None
Takeoff	1 600 lb
Landing	None
Zero Fuel	None

FORWARD CG LIMITS

31,5 in	1 029,6 lb
31,5 in	1 270 lb
32,8 in	1 600 lb

AFT CG LIMITS

37,5 in	1 600 lb
37,5 in	1 029,6 lb

STATIONS

- Front Seats (limit 340 lb) 35,3 in
- Back Seats (limit 340 lb) 70,7 in
- Hat Rack (limit 10 lb) 119 in
- Cargo (limit 120 lb) 95,5 in
- Rear Seat Cargo (limit 340 lb) 70,7 in
- Fuel Tanks (limit 62 gal 100LL) 48,4 in

23:05 Jeu. 28 janv. GOYZ Main

Overweight

EMPTY AIRCRAFT	GRAPH	RAMP (MAX 2 740 LB)
CG 42,5 in		Ramp Weight 2 698,8 lb
Moment 77 449,52 in-lb		Ramp Fuel 40 gal 100LL

WEIGHT LIMITS

Ramp	2 740 lb
Takeoff	2 740 lb
Landing	2 740 lb
Zero Fuel	None

FORWARD CG LIMITS

41 in	1 710 lb
41,8 in	2 470 lb
45 in	2 740 lb
41 in	2 250 lb

NOTICES

Overweight: Front Seats (30 lb over)

23:05 Jeu. 28 janv. GOYZ Main

Overweight

EMPTY AIRCRAFT	GRAPH	RAMP (MAX 2 740 LB)
CG 42,5 in		Ramp Weight 2 698,8 lb
Moment 77 449,52 in-lb		Ramp Fuel 40 gal 100LL

WEIGHT LIMITS

Ramp	2 740 lb
Takeoff	2 740 lb
Landing	2 740 lb
Zero Fuel	None

FORWARD CG LIMITS

41 in	1 710 lb
41,8 in	2 470 lb
45 in	2 740 lb
41 in	2 250 lb

NOTICES

Overweight: Front Seats (30 lb over)

RAMP (MAX 2 740 LB)

Ramp Weight	2 698,8 lb
Ramp Fuel	40 gal 100LL
Takeoff Weight	2 686,8 lb

ZERO FUEL

Zero Fuel Weight	2 458,8 lb
CG (41,8 to 50,1)	44,9 in

AUDIT MODE CONTROL

Audit Mode

+ Add New Station

+ Add New Forward Point

COMMENT ENTRER L'INFORMATION DANS FOREFLIGHT – LOAD

09:05 Sam. 30 janv. GOYZ Main

Overweight

FRONT SEATS	GRAPH	RAMP (MAX 2 740 LB)
<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Pilot 185 lb <input checked="" type="checkbox"/> Co-pilot 185 lb 		<ul style="list-style-type: none"> Ramp Weight 2 698,8 lb Ramp Fuel 40 gal 100LL
BACK SEATS		TAKEOFF (MAX 2 740 LB)
<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Passenger 175 lb <input checked="" type="checkbox"/> Passenger 40 lb 	<ul style="list-style-type: none"> Takeoff Weight 2 686,8 lb CG (44,4 to 50,1) 45,2 in Takeoff Fuel 38 gal 100LL 	
HAT RACK	LANDING (MAX 2 740 LB)	
<ul style="list-style-type: none"> <input checked="" type="checkbox"/> 0 lb 	<ul style="list-style-type: none"> Landing Weight 2 500,8 lb CG (42,2 to 50,1) 45 in Fuel Remaining 7 gal 100LL 	
CARGO	NOTICES	
<ul style="list-style-type: none"> <input checked="" type="checkbox"/> 50 lb 	<ul style="list-style-type: none"> ⚠ Overweight: Front Seats (30 lb over) 	
REAR SEAT CARGO	STATION LIMITS	
<ul style="list-style-type: none"> <input checked="" type="checkbox"/> 0 lb 	<ul style="list-style-type: none"> Front Seats 370 of 340 lb Back Seats 215 of 340 lb Hat Rack 0 of 10 lb 	
FUEL TANKS	AUDIT MODE CONTROL	
<ul style="list-style-type: none"> <input checked="" type="checkbox"/> 40 gal 100LL (flt 31, grd 2) 	<ul style="list-style-type: none"> Zero Fuel Weight 2 458,8 lb CG (41,8 to 50,1) 44,9 in 	
Edit Load Setup	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="display: flex; gap: 10px;"> ⏪ 📖 📄 📁 📷 ✈️ ✍️ ✓ </div> <div style="display: flex; gap: 10px;"> 👤 ☰ </div> </div>	
Aéroports Cartes Plates Documents Imagerie Vols ScratchPads Checklist Masse et Centrage Plus		

COMMENT ENTRER L'INFORMATION DANS FOREFLIGHT – LOAD

GOYZ Main

FRONT SEATS

- Pilot 185 lb
- Co-pilot 185 lb

BACK SEATS

- Passenger 175 lb
- Passenger 40 lb

HAT RACK

Weight

Edit Load

Cancel Edit Load Save

FRONT SEATS

Name Pilot

Weight (lb) 185

RAMP (MAX 2 740 LB)

Ramp Weight 2 698,8 lb

Ramp Fuel 40 gal 100LL

TAKEOFF (MAX 2 740 LB)

Takeoff Weight 2 686,8 lb

CG (44,4 to 50,1) 45,2 in

Takeoff Fuel 38 gal 100LL

1 2 3 4 5 6 7 8 9 0

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GOYZ Main

Overweight

FRONT SEATS

- Pilot 185 lb
- Co-pilot 185 lb

BACK SEATS

- Passenger 175 lb
- Passenger 40 lb

HAT RACK

- 0 lb

CARGO

- 50 lb

REAR SEAT CARGO

- 0 lb

FUEL TANKS

- 40 gal 100LL (fit 31, grd 2)

GRAPH

takeoff landing zero fuel

Weight

Edit Load

Cancel Edit Load Save

FUEL TANKS

Name None

Weight (lb) 240

100LL (gal) 40

IN-FLIGHT CONSUMPTION

Weight (lb) 186

100LL (gal) 31

GROUND CONSUMPTION

Weight (lb) 12

100LL (gal) 2

RAMP (MAX 2 740 LB)

Ramp Weight 2 698,8 lb

Ramp Fuel 40 gal 100LL

TAKEOFF (MAX 2 740 LB)

Takeoff Weight 2 686,8 lb

CG (44,4 to 50,1) 45,2 in

Takeoff Fuel 38 gal 100LL

LANDING (MAX 2 740 LB)

Landing Weight 2 500,8 lb

CG (42,2 to 50,1) 45 in

Fuel Remaining 7 gal 100LL

ZERO FUEL

Zero Fuel Weight 2 458,8 lb

CG (41,8 to 50,1) 44,9 in

AUDIT MODE CONTROL

Audit Mode

Edit Load Setup

Aéroports Cartes Plates Documents Imagerie Vols Sécurité Plus

Checklist Masse et Centrage Plus

COMMENT ENTRER L'INFORMATION DANS FOREFLIGHT – OPTIONS

The screenshot shows the 'GOYZ Main' screen in the Foreflight app. A red arrow points to the share icon in the top right corner. A 'Send To' menu is open, highlighting three options: MAIL, COPY, and PRINT. The background shows a weight distribution table and a graph.

Category	Item	Weight
FRONT SEATS	Pilot	185 lb
	Co-pilot	185 lb
BACK SEATS	Passenger	175 lb
	Passenger	40 lb
HAT RACK		0 lb
CARGO		50 lb
		0 lb
REAR SEAT CARGO		0 lb
FUEL TANKS	40 gal 100LL (fit 31, grd 2)	

GRAPH
Weight vs CG (fore to aft). Points: takeoff landing, zero fuel.

NOTICES
⚠ Overweight: Front Seats (30 lb over)

Takeoff (MAX 2 740 LB)
Takeoff Weight: 2 686,8 lb
CG (44,4 to 50,1): 45,2 in
Takeoff Fuel: 38 gal 100LL

LANDING (MAX 2 740 LB)
Landing Weight: 2 500,8 lb
CG (42,2 to 50,1): 45 in
Fuel Remaining: 7 gal 100LL

ZERO FUEL
Zero Fuel Weight: 2 458,8 lb
CG (41,8 to 50,1): 44,9 in

AUDIT MODE CONTROL
Audit Mode: [Toggle]

The screenshot shows the 'Copy Current Profile' dialog box. It prompts the user to 'ENTER PROFILE NAME' and shows the current profile name 'Main Copy'. A keyboard is visible at the bottom of the screen.

Copy Current Profile
Cancel Save

ENTER PROFILE NAME

Profile Name: Main Copy ✕

Please enter a profile name for the copy.



AVIATEURS.QUÉBEC

*La plus grande association de
pilote francophone des Amériques*

BON VOL À TOUS!

**SI VOUS AVEZ DES QUESTIONS SUITE À CETTE
FORMATION OU SUR FOREFLIGHT EN GÉNÉRAL,
ÉCRIVEZ-NOUS À L'ADRESSE SUIVANTE :**

formation@aviateurs.quebec