

# Weight and Balance Loading Form

• Note •

The Takeoff Condition Weight must not exceed 3600 lb.

The Takeoff Condition Moment must be within the Minimum Moment to Maximum Moment range at the Takeoff Condition Weight. (Refer to *Moment Limits*).

Serial Num: \_\_\_\_\_ Date: \_\_\_\_\_

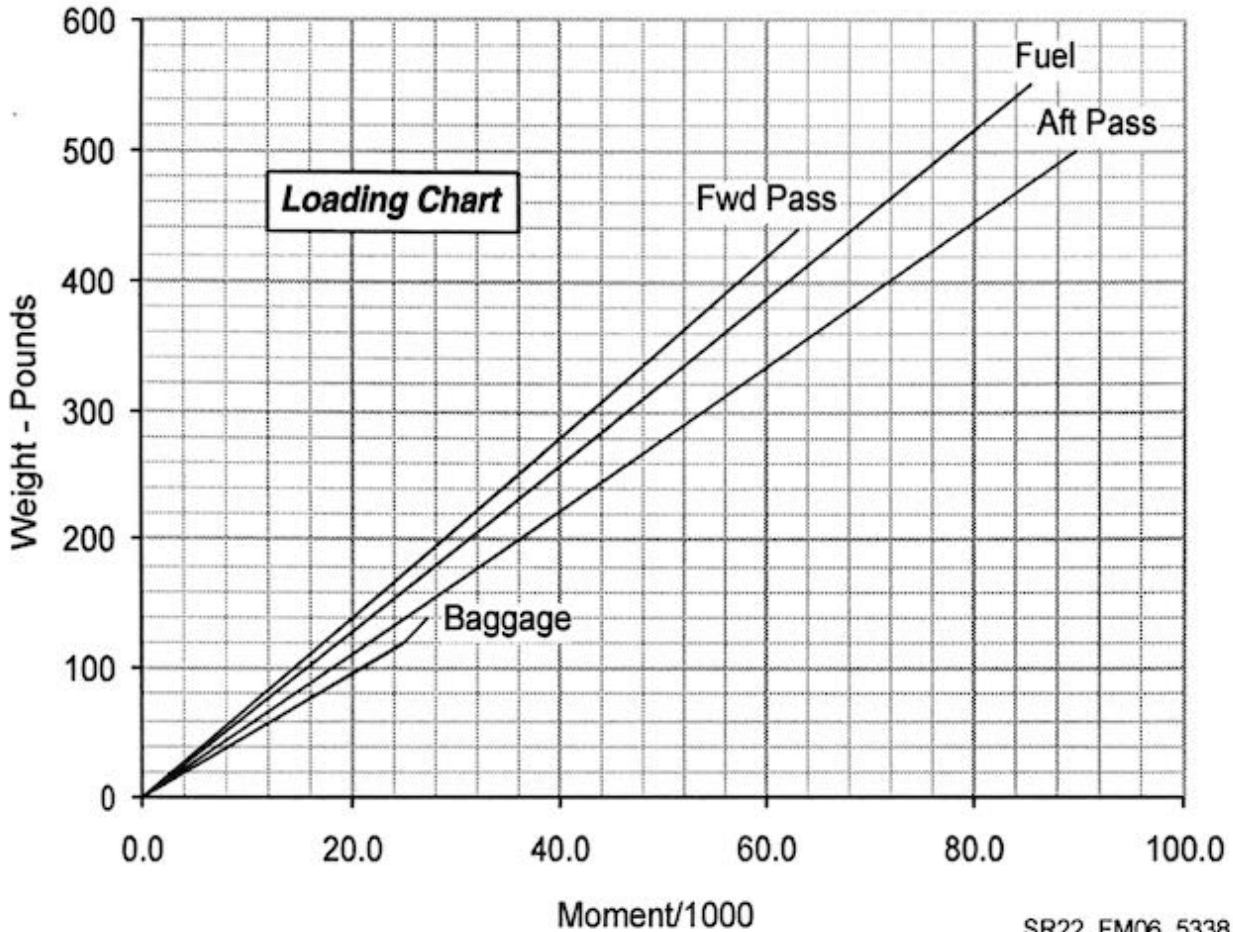
Reg. Num: \_\_\_\_\_ Initials: \_\_\_\_\_

Item	Description	Weight LB	Moment/ 1000
1.	Basic Empty Weight <i>Includes unusable fuel &amp; full oil</i>		
2.	Front Seat Occupants <i>Pilot &amp; Passenger (total)</i>		
3.	Rear Seat Occupants		
4.	Baggage Area <i>130 lb maximum</i>		
5.	Zero Fuel Condition Weight <i>Sub total item 1 thru 4 3400 lb maximum</i>		
6.	Fuel Loading <i>92 Gallon @ 6.0 lb/gal. Maximum</i>		
7.	Ramp Condition Weight <i>Sub total item 5 and 6</i>		
8.	Fuel for start, taxi, and run-up <i>Normally 9 lb at average moment of 1394.</i>		
9.	Takeoff Condition Weight <i>Subtract item 8 from item 7</i>		

Figure 6-1

# Loading Data

Use the following chart or table to determine the moment/1000 for fuel and payload items to complete the Loading Form.



Weight LB	Fwd Pass FS 143.5	Aft Pass FS 180.0	Baggage FS 208.0	Fuel FS 154.9	Weight LB	Fwd Pass FS 143.5	Aft Pass FS 180.0	Fuel FS 154.9
20	2.9	3.6	4.2	3.1	300	43.1	54.0	46.5
40	5.7	7.2	8.3	6.2	320	45.9	57.6	49.6
60	8.6	10.8	12.5	9.3	340	48.8	61.2	52.7
80	11.5	14.4	16.6	12.4	360	51.7	64.8	55.8
100	14.4	18.0	20.8	15.5	380	54.5	68.4	58.9
120	17.2	21.6	25.0	18.6	400	57.4	72.0	62.0
140	20.1	25.2	27.04*	21.7	420	60.3	75.6	65.1
160	23.0	28.8		24.8	440	63.1	79.2	68.2
180	25.8	32.4		27.9	460		82.8	71.3
200	28.7	36.0		31.0	480		86.4	74.4
220	31.6	39.6		34.1	500		90.0	77.5
240	34.4	43.2		37.2	520			80.5
260	37.3	46.8		40.3	552**			85.5
280	40.2	50.4		43.4				

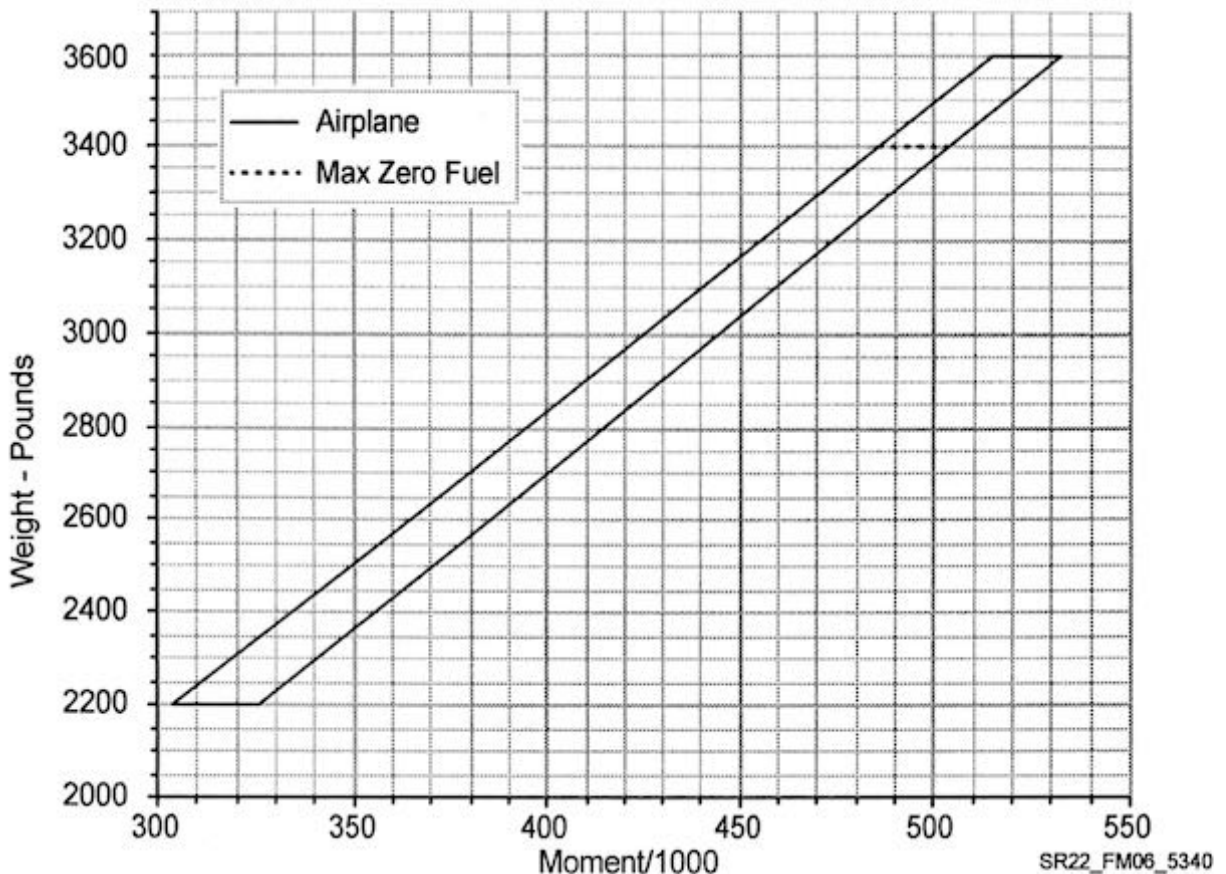
\*130 lb Maximum

\*\*92 U.S. Gallons Usable

Figure 6-2

## Moment Limits

Use the following chart or table to determine if the weight and moment from the completed Weight and Balance Loading Form (Figure 6-1) are within limits.



Weight LB	Moment/1000		Weight LB	Moment/1000	
	Minimum	Maximum		Minimum	Maximum
2200	304	326	2950	414	437
2250	311	333	3000	422	444
2300	318	341	3050	430	452
2350	326	348	3100	438	459
2400	333	355	3150	445	467
2450	340	363	3200	453	474
2500	347	370	3250	461	481
2550	354	378	3300	469	489
2600	362	385	3350	477	496
2650	369	392	*3400	484	504
2700	375	400	3450	494	511
2750	383	407	3500	501	519
2800	390	415	3550	508	526
2850	398	422	3600	515	533
2900	406	430			

\*NOTE: Maximum zero fuel weight.

Figure 6-3

### Delivered Weight Data & Equipment List

**Model SR22**

<b>Serial Number:</b>	<b>4770</b>
<b>Registration Number:</b>	<b>N477WW</b>
<b>Basic Empty Weight:</b>	<b>2396 lb</b>
<b>Total Moment/1000:</b>	<b>335.250</b>
<b>Center of Gravity:</b>	<b>F.S.139.9</b>

The following pages list required, standard, and optional equipment, as well as gives the weight and arm of each listed item. This listing represents the airplane and all options available at the time of delivery and does not include any equipment installed after delivery.

**Note:**

Not all optional equipment in this listing was installed in the above serial number airplane. Equipment listed as optional but not installed in the airplane is indicated by a hyphen (-) in the quantity column for that piece of equipment.

**ATA - Item:**

Each item in the listing is provided a unique number. The first two digits of the number represent the ATA or GAMA Chapter reference number. These numbers are used industry wide and in the Cirrus Design SR22 Maintenance Documentation to locate items in the Maintenance Manuals and or Parts Catalogs. The two digits following the hyphen are sequence numbers for each item in that chapter.

**Description:**

This is the component, assembly, or installation name.

**Sym:**

Items in this listing are coded by a symbol indicating the status of the item. These codes are:

**C** Required item for FAA Certification.

**S** Standard equipment. Most standard equipment is applicable to all airplanes. Some equipment may be replaced by optional equipment.

**O** Optional equipment. Optional equipment may be installed in addition to or to replace standard equipment.

**Qty:**

The quantity of the listed item in the airplane. A hyphen (-) in this column indicates that the equipment was not installed

**Part Number**

This is the Cirrus Design Part Number for the component, assembly, or installation

**Unit Wt**

The weight, in pounds, of one each of the listed item.

**Arm**

The arm, in inches, of the listed item.