

# N676CH WEIGHT AND BALANCE WORKSHEET

## OWNERS MANUAL EXAMPLE (NOT EQUAL TO N676CH DATA)

	WEIGHT	ARM	MOMENT*
EMPTY WEIGHT (LICENSED).....	1392	39.22	54.6
FUEL (38 GALLONS MAX).....	228	47.81	10.9
PILOT & FRONT PASSENGER.....	340	37.06	12.6
REAR PASSENGERS.....	340	72.94	24.8
**BAGGAGE AREA 1 (120 LBS MAX).....		95.00	
**BAGGAGE AREA 2 (50 LBS MAX).....		123.00	
TOTAL	<b>2300</b>	<b>44.74</b>	<b>102.9</b>

## N676CH EXAMPLE PILOT & PASSENGER WITH FULL FUEL

	WEIGHT	ARM	MOMENT*
EMPTY WEIGHT (LICENSED).....	1547	39.90	61.7
FUEL (38 GALLONS MAX).....	228	47.81	10.9
PILOT & FRONT PASSENGER.....	330	37.00	12.2
REAR PASSENGERS.....			
**BAGGAGE AREA 1 (120 LBS MAX).....	15	95.00	1.4
**BAGGAGE AREA 2 (50 LBS MAX).....			
TOTAL	<b>2120</b>	<b>40.6</b>	<b>86.1</b>

## N676CH CURRENT FLIGHT WORKSHEET

	WEIGHT	ARM	MOMENT*
EMPTY WEIGHT (LICENSED).....	1547	39.90	61.7
FUEL (38 GALLONS MAX).....		47.81	
PILOT & FRONT PASSENGER.....		37.00	
REAR PASSENGERS.....		73.00	
**BAGGAGE AREA 1 (120 LBS MAX).....		95.00	
**BAGGAGE AREA 2 (50 LBS MAX).....		123.00	
TOTAL			

\* MOMENTS ARE SHOWN DIVIDED BY 1000

\*\* THE COMBINED MAXIMUM ALLOWABLE BAGGAGE WEIGHT FOR AREA 1 AND AREA 2 IS 120 LBS

\*\*\*DATA INCLUDES SOME ESTIMATIONS AND IS TO BE USED AS  
REFERENCE/TRAINING ONLY; REFER TO AIRCRAFT POH FOR OFFICIAL  
PERFORMANCE DATA\*\*\*

# N676CH

## WEIGHT AND BALANCE

### CHEAT SHEET

#### AIRPLANE FACTS

BASIC EMPTY WEIGHT	1547	LBS
MAXIMUM GROSS WEIGHT	2300	LBS
TOTAL FUEL	42	GAL
FUEL WEIGHT	6.0	LBS / GAL
USEABLE FUEL	x 38	GAL
	= 228	LBS

#### BASIC EQUATIONS

MOMENT/1000 = (WEIGHT \* ARM) / 1000

CENTER OF GRAVITY (CG) = TOTAL MOMENT / TOTAL WEIGHT

#### CALCULATED DATA

TOTAL USEFUL LOAD	753	LBS
(PILOT, PASSENGERS, BAGGAGE, USEABLE FUEL)		
AVAILABLE LOAD WITH FULL FUEL	525	LBS
(PILOT, PASSENGERS, BAGGAGE)		
AVAILABLE LOAD WITH 20 GAL	633	LBS
(PILOT, PASSENGERS, BAGGAGE)		

#### CENTER OF GRAVITY LIMITS

AT 2300 LBS (MAX GROSS WEIGHT)	38.5 – 47.2	INCHES
AT 2100 LBS	36.5 – 47.2	INCHES
AT 1800 LBS	35.0 – 47.2	INCHES

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