

WEIGHT & BALANCE		N5M			June 1, 2005
<b>EMPTY</b>					
DESCRIPTION	ARM	WT	MOMENT		
NOSE	27.5	598	16445	<b>RANGE</b>	
R-MAIN	106.75	933	99597.75	86.5	FORE
L-MAIN	106.75	961	102586.75	94.5	AFT
				<b>GROSS WT. = 3890#</b>	
			2492	218629.5	
				87.73	
GEAR-UP SHIFT 1088 A*W				88.17	
FUEL 6.9 #/GAL					
<b>MAX AFT</b>					
DESCRIPTION	ARM	WT	MOMENT		
NOSE	27.5	598	16445		
R-MAIN	106.75	933	99597.75		
L-MAIN	106.75	961	102586.75		
FUEL(120gal)	94.72	828	78428.16	<b>RANGE</b>	
PILOT	96.31	340	32745.4	86.50	FOR
PASSENGER	128.45	180	23121	94.50	AFT
BAGGAGE	166.98	50	8349	<b>GROSS WT. = 3890#</b>	
GEAR-UP	0	0	0		
			3890	361273.06	
				92.87	
GEAR-UP SHIFT 1088 A*W				93.15	

### N5M estimated weight & balance

#### config at empty

	wt	arm	moment
nose	598	27.5	16445
left	961	106.75	102586.75
right	933	106.75	99597.75
total	2492		218629.5

empty C<sub>G</sub> 87.7325441

#### config at 9 min into flight

	wt	arm	moment
aircraft	2492		218629.5
fuel	744	94.72	70471.68
front seats	330	96.31	31782.3
rear seats	135	128.45	17340.75
baggage	50	166.98	8349
	3751		346573.23

CG= 92.3948894

CG RANGE= 86.5-94.5  
gross wt 3890

828 assume full fuel weight at start up  
30 taxi fuel est. weight  
54 9 min fuel est. weight

744 fuel weight at 9 minutes into flight est.