

WEIGHT AND BALANCE

MAKE Kitfox MODEL II SERIAL # 627 REGISTRATION # N 4278X

DATUM IS leading edge of wing

LEVELING MEANS level underside of aircraft cabin floor

MAIN WHEEL WEIGHING POINT IS (+)2.406 " AFT OF DATUM (ARM)

MEASURED DISTANCE FROM DATUM TO THE TAILWHEEL CENTERLINE ^{156.28"} (+) _____ " (ARM)

MAXIMUM GROSS WEIGHT IS 950 POUNDS.

ACTUAL EMPTY WEIGHT

WEIGHT POINT	WEIGHT	- TARE	= NET
Right Main	231	- 4	227
Left Main	240	- 4	236
Tailwheel	32	0	32
TOTAL	495	0	495

WEIGHT AND BALANCE EXTREME CONDITIONS

MAX FORWARD LIMIT <u>10.2</u> " MAX WEIGHT <u>950</u> # MAX AFT LIMIT <u>14.28</u> "						
ITEM	FORWARD CHECK			REARWARD CHECK		
	WEIGHT	x ARM	= MOMENT	WEIGHT	x ARM	= MOMENT
Acft Empty	495	(+) 12.5	(+) 6187	495	(+) 12.5	(+) 6187
Pilot	120	(+) 15.8	(+) 1896	191.5	(+) 15.8	(+) 3026
Fuel	0	(+) 15.97	(+) 0	72	(+) 15.97	(+) 1150
Passenger	0	(+) 15.8	(+) 0	191.5	(+) 15.8	(+) 3026
Baggage	0	(+)	(+) 0	0	(+)	(+) 0
TOTALS	615	_____	8083	950	_____	13389
$\frac{TM}{TW} = \frac{8083}{615} = 13.14$ "			$\frac{TM}{TW} = \frac{13389}{950} = +14.09$ "			
Most forward CG location			Most rearward CG location			

EQUIPMENT CHANGE

COMPUTING NEW CG			
ITEM MAKE & MODEL	WEIGHT	x ARM	= MOMENT
Aircraft Empty			
Added			
Added			
Removed			
Removed			
NEW TOTALS		=NW	=NM
$\frac{NM}{NW} = \text{_____} " = + \text{_____} " = \text{New CG}$			