## Wing Loading

Take-off	•	Landing	
H (f)	692	H (f)	692
CL(max)	1.6	CL(max)	1.6
T(max) (lb)	3.5	T(max) (lb)	2.9258
W_TO (lb)	5.463445905	W_L (lb)	5.1853784
S (f^2)	6.384303599	W/S (lb/f^2)	0.8122074
- ( )		- ( - )	
W/S (lb/f^2)	0.855762233	S (f^2)	6.3843036
SIGMA	0.9819042	SIGMÁ	0.9819042
T/W	0.640621333	T/W	0.5642404
TOP	0.850281282	LP	0.5169849
S_TO (f)	81.98067041	S_TO (f)	461.00421
Cruise Start		Cruise End	
CD_0	0.015	CD_0	0.015
Α	7	Α	7
H (f)	300	H (f)	300
Cruise Mach	0.04	Cruise Mach	0.04
W (lb)	5.32	W (lb)	5
k	0.056941051	k	0.0569411
k V (f/s)	0.056841051 44.1192	k V (f/s)	0.0568411
			44.1192
rho (lbm/f^3)	0.075874061	rho (lbm/f^3)	0.0758741
q (lbf/f^2)	2.293309777	q (lbf/f^2)	2.2933098
W/S (lb/f^2)	0.833033188	W/S_optimum	0.8330332
S (f^2)	6.384303599	W/S_actual	0.8330332
Climb		Acceleration	
H (f)	1,000	H (f)	50
Climb Mach	0.04	Cruise Mach	0.04
dH/dt (f/min)	1100	n	5
, ,			
V (f/s)	44.024		
G (rad)	0.416439518	V (f/s)	44.1532
Gamma (deg)	24.61000254	rho (lbm/f^3)	0.076374
rho (lbm/f^3)	0.074474205	q (lbf/f^2)	2.3119801
q (lbf/f^2)	2.241294924	W/S (lb/f^2)	0.2375356
T/W min	0.475		
T/W min - G	0.05839917		
W/S_+ (lb/f^2)	1.151366529		
W/S (lb/f^2)	1.15136646		
Turn - Inst.		Turn- Sustained	
H (f)	300	H (f)	300
Cruise Mach	0.04	Cruise Mach	0.04
CL_max	1.6	n	5
W/S (lb/f^2)	0.833033188	W/S (lb/f^2)	0.8330332
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V (f/s)	44.1192	T/W_max	0.2919959
rho (lbm/f^3)	0.075874061	V (f/s)	44.1192
q (lbf/f^2)	2.293309777	rho (lbm/f^3)	0.0758741
psi_dot (rad/s)	3.130817496	q (lbf/f^2)	2.2933098
psi_dot (deg/s)	179.3827805	psi_dot (rad/s)	2.4361973
n	4.404741246	psi_dot (deg/s)	139.58394
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Ceiling	= 00	Descent	_
W (lb)	5.32	W (lb)	5
S (f^2)	6.384303599	S (f^2)	6.3843036
H (f)	900	H (f)	1,400
Cruise Mach	0.04	Cruise Mach	0.04
W/S (lb/f^2)	0.833033188	W/S (lb/f^2)	0.8330332
V (f/s)	44.0376	V (f/s)	43.9696
rho (lbm/f^3)	0.074674184	rho (lbm/f^3)	0.0736743
q (lbf/f^2)	2.248701996	q (lbf/f^2)	2.2117452
CL_required	0.370450682	dH/dt-min (f/min)	152.33024
		Gamma (deg)	3.3101418