## XCub Cruise Performance Chart v1.7.8 [XCub Performance+ 180] v1.7.8 and greater

### NOT FOR REAL WORLD USE

Pressure Altitude (ft)	RPM	Power (MP)	TAS (KTS)	Fuel Flow (GPH)	NOTES Mixture leaned for maximum power. (Below 80%) Numbers recorded at standard atmosphere 50% Main tank fuel / 180 lb Pilot
3000	 	· 	·		Lycoming O-360-C1G 180 HP
	2300	19.0 (52%)	112	7.3	80" Hartzell Trailblazer Propeller Gross weight 2300 LB
	2400	20.3 (59%)	117	8.2	Useful Load 1084 LB
	2500	21.6 (67%)	122	9.4	Max Range 695NM (Main Tanks Only) Max Cargo Weight 230 LB
	2600	22.9 (75%)	126	10.5	
	2700	23.7 (82%)	129	11.4	
5000					Max Speed Level - 133 KTS
	2300	18.3 (50%)	112	7.2	Max Cruise - 126 KTS Max Maneuver Speed - 86 KTS
	2400	19.6 (57%)	118	8.2	Maximum Flap Extension Speed - 73 KTS Stall Speed (Full Flap) - 40 KTS
	2500	20.9 (65%)	122	9.4	Stall Speed (Clean) - 41 KTS Best Angle - 51 KTS
	2600	22.0 (72%)	127	10.4	Best Rate - 64 KTS Best Glide(2300Lbs) - 59 KTS
	2700	22.8 (79%)	130	11.2	
7000					-
7000	2300	17.6 (49%)	114	7.0	Best Economy Cruise (approximately 80% power and below) - Do not lean below peak EGT on
	2400	18.9 (56%)	118	8.0	carbureted engines.
	2500	19.9 (62%)	123	8.9	Under certain damp atmospheric conditions and temperatures of 20°F to 100°F (-6°c to 38°C) it is
	2600	20.6 (68%)	127	9.8	possible for ice to form in the induction system.
	2700	21.6 (75%)	130	10.8	
9000					Climb Power- 25MP/2500RPM
	2300	16.9 (47%)	115	6.7	Performance Cruise (75% Rated) 135hp @ 2450
	2400	18.0 (53%)	119	7.6	(10.5GPH)
	2500	18.8 (59%)	124	8.5	Economy Cruise (65% Rated) 117hp @ 2350 (9.5GPH)
	2600	19.6 (65%)	128	9.4	Any ground check that requires full throttle
	2700	20.2 (70%)	131	10.1	operation must be limited to three minutes, or less. Cylinder head temperatures should not exceed the
					maximum of 500°F.

## XCub Cruise Performance Chart v1.7.8 [XCub Performance+ 215] v1.7.8 and greater

### NOT FOR REAL WORLD USE

		· 210] v1.7.0 a	<u> </u>		NOT TOK KEAL WOKED 03E		
Pressure Altitude (ft)	RPM	Power (MP)	TAS (KTS)	Fuel Flow (GPH)	NOTES Mixture leaned for maximum power. Numbers recorded at standard atmosphere 50% Main tank fuel / 180 lb Pilot		
3000					Lycoming CC393I 215 HP		
	2300	19.2 (52%)	119	8.0	80" Hartzell Trailblazer Propeller Gross weight 2300 LB		
	2400	20.4 (59%)	124	9.0	Useful Load 1074 LB		
	2500	21.9 (67%)	129	10.2	Max Range 695NM (Main Tanks Only) Max Cargo Weight 230 LB		
	2600	23.4 (75%)	134	11.5			
	2700	24.1(82%)	138	12.5			
					-		
5000		[]	[]		Max Speed Level - 133 KTS Max Cruise - 126 KTS		
	2300	18.4 (50%)	120	7.6	Max Maneuver Speed - 86 KTS		
	2400	19.7 (57%)	125	8.7	Maximum Flap Extension Speed - 73 KTS Stall Speed (Full Flap) - 40 KTS		
	2500	21.1 (65%)	130	9.9	Stall Speed (Clean) - 41 KTS Best Angle - 51 KTS		
	2600	21.3 (69%)	133	10.5	Best Rate - 64 KTS Best Glide(2300Lbs) - 59 KTS		
	2700	22.0 (75%)	136	11.3			
7000			<u>.</u>	<u>.</u>	Climb Power- 25MP/2500RPM		
	2300	17.6 (49%)	121	7.5			
	2400	19.0 (56%)	127	8.6	Performance Cruise (75% Rated) 161hp @ 2450 (11.3GPH)		
	2500	19.9 (62%)	131	9.5	Economy Cruise (65% Rated) 140hp @ 2350 (10.3GPH)		
	2600	20.5 (68%)	134	10.3			
	2700	20.2 (70%)	136	10.7			
9000					-		
	2300	16.9 (47%)	122	7.2			
	2400	17.9 (53%)	127	8.1			
	2500	18.8 (59%)	132	9.0			
	2600	19.4 (65%)	135	9.8			
	2700	19.5 (68%)	137	10.3			

# Millibars to Inches of Mercury

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979 28.91
980 28.94
981 28.97
982 29.00
983 29.03
984 29.06
985 29.09
986 29.12
987 29.15
988 29.18
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991 29.26
992 29.29
993 29.32
994 29.35
995 29.38
996 29.41
997 29.44
998 29.47
999 29.50
1000 29.53

1001	29.56
1002	29.59
1003	29.62
1004	29.65
1000	29.53
1001	29.56
1002	29.59
1003	29.62
1004	29.65
1005	29.68
1006	29.71
1007	29.74
1008	29.77
1009	29.80
1010	29.83
1011	29.85
1012	29.88
1013	29.91
1014	29.94
1015	29.97
1016	30.00
1017	30.03
1018	30.06
1019	30.09
1020	30.12
1021	30.15
1022	30.18
1023	30.21
1024	30.24
1025	30.27
1026	30.30
1027	30.33
1028	30.36
1029	30.39
1030	30.42
1031	30.45
1031	30.45

1032	30.47
1033	30.50
1034	30.53
1035	30.56
1036	30.59
1037	30.62
1038	30.65
1039	30.68
1040	30.71
1041	30.74
1042	30.77
1043	30.80
1044	30.83
1045	30.86
1046	30.89
1047	30.92
1048	30.95
1049	30.98
1050	31.01
1051	31.04
1052	31.07
1053	31.10
1054	31.12
1055	31.15
1056	31.18
1057	31.21
1058	31.24
1059	31.27
1060	31.30
1061	31.33
1062	31.36
1063	31.39
1064	31.42
1065	31.45
1066	31.48
1067	31.51