

C-172D Performance Data from Operating Manual

Power off Stall Speeds (Knots)

	Angle of Bank			
	0	20	40	60
Flaps up	50	51	56	70
Flaps 10	45	47	51	64
Flaps 40	43	44	49	60

Airspeed Correction

	IAS	35	43	52	61	70	78	87	96	104	113	122	130
		40	50	60	70	80	90	100					
Flaps Up	CAS	45	50	56	63	70	77	85	94	101	110	118	▪
Flaps Down	CAS	43	47	55	63	70	79	87	▪	▪	▪	▪	▪

Climb Data (172)

Gross Weight lbs.	SL & 59° F (15 C)			5000 & 41° F (5 C)			10,000 & 23° F (-5 C)			15,000 & 5° F (-15° C)		
	Best Climb IAS KTS	Rate of Climb	Gals	Best Climb IAS KTS	Best Climb IAS KTS	Gals	Best Climb IAS KTS	Best Climb IAS KTS	Gals	Best Climb IAS KTS	Best Climb IAS KTS	Gals
1700	65	1085	1.0	63	825	1.9	62	570	2.9	61	315	4.4
2000	67	840	1.0	66	610	2.2	64	380	3.6	63	155	6.3
2300	70	645	1.0	68	534	2.6	67	230	4.8	66	22	11.5

Note: Flaps up, full throttle, and mixture leaned for smooth operation about 5000 ft. Fuel used includes warm-up and take-off allowance.

Take-Off Data

Take off distance from hard surface runway

Gross Weight Lbs.	IAS at 50 Ft. kts	Headwind kts	@ S.L & 15C		@ 2500 ft. & 10C		@ 5000 ft. & 05C		@ 7500 ft. & 0C	
			Ground Run	To Clear 50' obs.	Ground Run	To Clear 50' obs.	Ground Run	To Clear 50' obs.	Ground Run	To Clear 50' obs.
1700	52	0	435	780	520	920	625	1095	765	1370
		10	290	570	355	680	430	820	535	1040
		20	175	385	215	470	270	575	345	745
2000	57	0	630	1095	755	1325	905	1625	1120	2155
		10	435	820	530	1005	645	1250	810	1685
		20	275	580	340	720	425	910	595	1255
2300	61	0	865	1525	1040	1910	1255	2480	1565	3855
		10	615	1170	750	1485	920	1955	1160	3110
		20	405	850	505	1100	630	1480	810	2425

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Cruise & Range Performance

Gross Weight 2300 Lbs. ▪ Standard Conditions ▪ Zero Wind ▪ Lean mixture ▪ 36 Gal. of Fuel (No Reserve)						
Note: Maximum cruise is normally limited to 75% power.						
Alt.	RPM	%BHP	TAS KTS	Gal./Hour	Ends. Hours	Range Miles
2500	2700	93	119	10.5	3.4	470
	2600	84	113	9.5	3.8	495
	2500	75	108	8.5	4.2	530
	2400	67	103	7.6	4.7	560
	2300	59	97	6.8	5.3	595
	2200	52	91	6.2	5.8	615
	2100	46	86	5.7	6.4	635
5000	2700	87	117	9.8	3.7	500
	2600	78	112	8.8	4.1	525
	2550	74	109	8.4	4.3	550
	2500	70	107	7.9	4.5	560
	2400	62	102	7.1	5.1	600
	2300	55	96	6.4	5.6	625
	2200	49	90	5.9	6.1	640
	2100	44	84	5.5	6.4	640
7500	2650	77	114	8.7	4.2	550
	2600	73	111	8.2	4.3	560
	2500	65	106	7.4	4.9	600
	2400	58	100	6.7	5.3	620
	2300	52	95	6.1	5.9	650
	2200	47	90	5.7	6.4	655
	2100	42	84	5.3	6.7	655
10,000	2600	68	110	7.7	4.7	605
	2500	61	104	7.0	5.2	625
	2400	55	99	6.4	5.6	645
	2300	49	93	5.9	6.1	655
	2200	45	88	5.5	6.6	670
	2100	41	82	5.2	6.8	655
12,500	2600	63	109	7.2	5.0	630
	2500	57	103	6.6	5.4	650
	2400	52	97	6.1	5.9	670
	2300	47	92	5.7	6.3	670
	2200	43	87	5.4	6.6	670

LANDING DATA

Landing Distance on Hard Surface Runway, No Wind									
Gross Weight Lbs.	Approach IAS KTS	@ S.L. & 15C		@ 2500 ft. & 10C		@ 5000 ft. & 05C		@ 7500 ft. & 0C	
		Ground Roll	To Clear 50' Obs.	Ground Roll	To Clear 50' obs.	Ground Roll	To Clear 50' obs.	Ground Roll	To Clear 50' obs.
1700	48	385	1030	415	1080	445	1130	480	1185
2000	52	450	1140	485	1195	525	1255	565	1320
2300	57	520	1250	560	1310	605	1385	650	1455

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