

## Summary Aircraft Data 1973 C182P N922RA

Empty Weight (lbs)	Max T/O Weight (lbs)	Useful Load (lbs)	Fuel Capacity (gals)	Useable Fuel (gals)
1807	2950	1143	84	76

Electrical System			Engine	Oil
Alternator	14 V	60 amp	230 HP	Min level = 9 qts
Battery	12 V	25 amp hr	O-470-S	Max level = 12 qts

**Normal Category Load Factor:** +3.8 G to -1.52 G

**V – Speeds MPH:**

- V<sub>NE</sub> = 198
- V<sub>NO</sub> = 160
- V<sub>FE</sub> = 160 for 10 deg flaps  
110 for 20 – 40 deg
- V<sub>A</sub> (max T/O weight) = 126
- V<sub>Y</sub> = 90
- V<sub>X</sub> = 65
- V<sub>G</sub> = 80
- V<sub>R</sub> = 60
- V<sub>SO</sub> = 63
- V<sub>S1</sub> = 68

**Standard Traffic Pattern**

	Carb Heat	IN MP	RPM	MPH	Flaps	Trim
<b>Downwind</b>	ON	18"	2400	85	10 deg	As Req
<b>Abeam Touchdown Pt.</b>	ON	15"	2400	83	20 deg	As Req
<b>Base</b>	ON	12"	2400	83	30 deg	As Req
<b>Final</b>	ON	10"	1200 Idle	75	40 deg final	As Req

**Maximum Crosswind Component** = 13 MPH @ 90 deg to runway.

**GO-AROUND:** Power 25" MP, Prop Full, Flaps to 30 deg, pitch for normal climb, positive rate of climb established, flaps up incrementally until reaching traffic pattern altitude.

**Maximum Flaps for Forward Slip = 20 deg**

**Commercial Maneuvers Speeds**

Maneuver	Entry Speed MPH
Chandelles	126
Lazy Eight	126
Steep Turns (45 – 50 deg bank)	126

<b>TAKE-OFF DATA</b>										
TAKE-OFF DISTANCE WITH 20° FLAPS FROM HARD SURFACE RUNWAY										
GROSS WEIGHT LBS.	IAS @ 50' MPH	HEAD WIND KNOTS	AT SEA LEVEL & 59°F.		AT 2500 FT. & 50°F.		AT 5000 FT. & 41°F.		AT 7500 FT. & 32°F.	
			GROUND RUN	TOTAL TO CLEAR 50' OBS	GROUND RUN	TOTAL TO CLEAR 50' OBS	GROUND RUN	TOTAL TO CLEAR 50' OBS	GROUND RUN	TOTAL TO CLEAR 50' OBS
2950	60	0	705	1350	845	1625	1015	1990	1240	2585
		10	490	1025	595	1245	725	1550	900	2040
		20	310	740	385	910	480	1150	610	1545
2500	55	0	485	955	575	1120	690	1330	840	1630
		10	325	710	395	840	475	1005	590	1255
		20	195	490	245	590	300	720	380	915
2000	50	0	295	655	350	745	415	855	500	1005
		10	185	460	225	530	275	620	335	740
		20	105	305	130	355	160	425	205	515

NOTES: 1. Increase distances 10% for each 25°F above standard temperature for particular altitude.  
2. For operation on a dry, grass runway, increase distances (both "ground run" and "total to clear 50 ft. obstacle") by 7% of the "total to clear 50 ft. obstacle" figure.

CRUISE PERFORMANCE						
SKYLANE						
	75% POWER		65% POWER		55% POWER	
ALTITUDE	TAS	MPG	TAS	MPG	TAS	MPG
Sea Level	155	11.2	148	12.1	138	13.5
3500 Feet	161	11.6	152	12.5	142	13.9
6500 Feet	165	11.9	156	12.8	145	14.2
Standard Conditions					Zero Wind	

LANDING DISTANCE TABLE									
LANDING DISTANCE WITH 40° FLAPS ON HARD SURFACED RUNWAY									
GROSS WEIGHT POUNDS	APPROACH IAS MPH	@ SEA LEVEL & 59° F		@ 2500 FEET & 50° F		@ 5000 FEET & 41° F		@ 7500 FEET & 32° F	
		GROUND ROLL	TOTAL TO CLEAR 50 FT. OBS.	GROUND ROLL	TOTAL TO CLEAR 50 FT. OBS.	GROUND ROLL	TOTAL TO CLEAR 50 FT. OBS.	GROUND ROLL	TOTAL TO CLEAR 50 FT. OBS.
2950	69	590	1350	640	1430	680	1505	740	1595
NOTES: 1. Distances shown are based on zero wind, power off and heavy braking. 2. Reduce landing distances 10% for each 5 knots headwind. 3. For operation on a dry, grass runway, increase distances (both "ground roll" and "total to clear 50 ft. obstacle") by 20% of the "total to clear 50 ft. obstacle" figure.									