



°C MAUW, level paved runway, no wind,

Takeoff Dist	PAIt	-7	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	27	38
m over 50'	SL	312	331	333	335	337	339	341	343	345	346	348	349	351	352	354	356	358	360	362	372	391
obstacle	3000	413	441	444	446	448	451	453	455	458	460	463	465	468	470	473	476	479	482	485	500	529
57.5 mph	5000	509	548	551	554	557	560	563	566	569	572	575	578	581	584	588	592	596	600	604	625	669
	7000	647	698	702	706	711	715	720	724	726	731	736	741	746	751	758	765	772	779	785	819	884

Takeoff Corrections

Decrease the basic distance by 20 % for each 10% decrease in weight
 Reduce the distance by 1% for each knot of headwind up to 20 knots
 Increase the basic distance by 1.3 for 5 knots tailwind
 Increase the basic distance by 1.7 for 10 knots tailwind

Increase the basic distance by 20% for 2% upslope
 Decrease the basic distance by 20% for 2% downslope
 Increase the basic distance by 20% for short dry grass surface
 Increase the basic distance by 30% for wet long grass surface
 Increase the basic distance by 25% for soft ground or snow

°C MAUW, level paved runway, no wind,

Landing Dist	PAIt	-7	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	27	38
m over 50'	SL	332	336	337	337	338	338	339	339	339	340	340	341	341	341	342	342	343	343	343	345	350
obstacle	3000	344	350	350	350	351	351	352	352	352	353	353	354	354	354	355	355	356	356	357	360	365
57.5 mph	5000	354	360	360	361	361	362	362	362	363	363	364	364	365	365	365	366	366	367	367	370	376
	7000	364	370	370	371	371	372	372	373	373	374	374	375	375	376	377	377	378	379	379	382	388

Landing Corrections

Decrease the basic distance by 10% for each 10% decrease in weight
 Reduce the distance by 1% for each knot of headwind up to 20 knots
 Increase the basic distance by 1.3 for 5 knots tailwind
 Increase the basic distance by 1.7 for 10 knots tailwind
 Decrease the basic distance by 20% for 2% upslope

Increase the basic distance by 20% for 2% downslope
 Decrease the basic distance by 20% for short dry grass surface
 Increase the basic distance by 40% for wet long grass surface
 Increase the basic distance by 25% for soft ground or snow

Source Data Piper PA-18 Flight Manual & NZCAA GAP booklet

Classic Cubs
 Bill & Neroli Henwood
 The Home of Taildragger Training



418 Horobai Rd, RD 8, Hamilton 3288 07 829 7579 / 021 065 4538

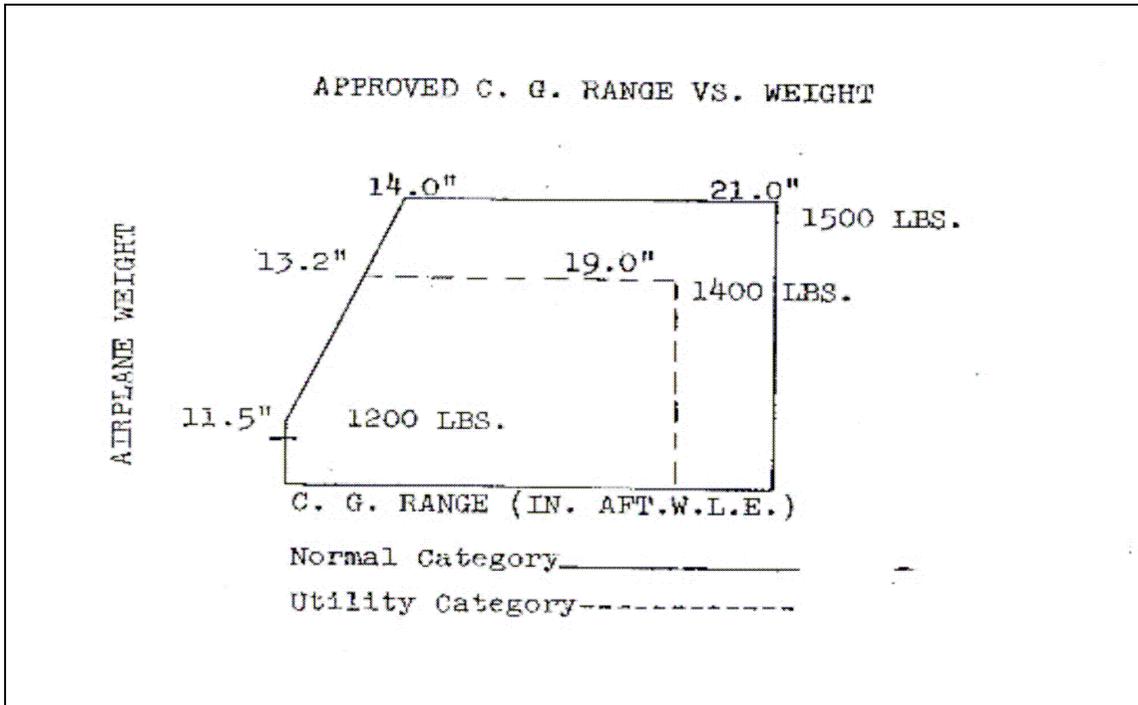
Item	Weight lbs	Arm	Moment
MT		16.5	
Pilot		11	
Pax		37	
Bags		57	
Fuel		24	

Fuel weights, (both sides)

Fuel	lbs	litres
1/4	55	32
1/2	110	64
3/4	165	96
Full	227	132

Fuel = 7.2 lbs/gal
 4.55 litres/gal
 16 litres per 1/4 tank
 Endurance 45 minutes per 1/4 tank

max 1500 11.5" - 21" Note: all arms taken from Datum at Wing Leading Edge



Source Data Piper PA-18 Flight Manual
 & NZCAA GAP booklet