Section 5 – PERFORMANCE 170A, 170B

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

When operating at weights above the original gross weight limit, the stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

CESSNA 170A, 170B WingX (145HP)

TAKOFF DISTANCE

CONDITIONS:

Zero Wind

Flaps UP

Leio III

Full Throttle Prior to Brake Release

Speed at 50 ft: 76 mph TIAS

Paved, level, dry runway

		0°F		20°F		40°F		60°F		80°F		100°F	
_			Clear		Clear								
표	1.0	Grnd	50 Ft	Grnd	50 Ft								
EIGHT	Press Alt	Roll	Obst	Roll	Obst								
3	in Feet	Ft	Ft	Ft	Ft								
	0	610	1525	660	1655	710	1780	760	1905	805	2020	860	2145
Ibs	2000	745	1860	800	2000	860	2145	915	2290	980	2450	1045	2615
	4000	895	2240	960	2395	1025	2565	1090	2730	1165	2920	1255	3140
2250	6000	1065	2665	1145	2865	1225	3065	1315	3285	1405	3515	1515	3785
22	7000	1180	2950	1270	3180	1365	3410	1465	3660	1570	3920	1690	4225
	0	584	1460	632	1580	680	1700	728	1820	772	1930	820	2050
Ibs	2000	712	1780	764	1910	820	2050	876	2190	936	2340	1000	2500
	4000	856	2140	916	2290	980	2450	1044	2610	1116	2790	1200	3000
2200	6000	1020	2550	1096	2740	1172	2930	1256	3140	1344	3360	1448	3620
22	7000	1128	2820	1216	3040	1304	3260	1400	3500	1500	3750	1616	4040

Shaded values are original (unchanged) Cessna data and are supplied for reference.

Landing Performance

Section 6 – WEIGHT AND BALANCE 170A, 170B

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.



Section 5 – PERFORMANCE 172

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

When operating at weights above the original gross weight limit, the stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

TAKE-OFF DISTANCE WITH FLAPS UP, FROM HARD SURFACE RUNWAY WITH FLAPS UP

				SHADED	CELLS ARE	AFM DATA				
			AT SEA LE	VEL & 59°F	AT 2500	FT & 50°F	AT 5000	FT & 41°F	AT 7500	FT & 32°F
GROSS WEIGHT POUNDS	IAS AT 50' MPH	HEAD WIND KNOTS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS
1600	56	0 10	355 230	200	420 275		505 335		610 375	
- 111		20			160		200		255	
1900	63	0 10 20		790	615 420 260	960	750 525 330	1190	955 675 435	2175 1535 990
2200	***	0	725	1650	880	2000	1080	2455	1365	3100
2200	69	10 20	2.50		620 400		775 510	1000000	990 675	
2250	70	0 10		1215	930 660	1490	1145 820	1870	1440 1045	3270 2390
		20	335	765	425	970	545	1240	720	1635

NOTES: 1. Increase distance 10% for each 25°F above standard temperature for a particular altitude.

2. Shaded values are original (unchanged) Cessna data and are supplied for reference.

Landing Performance

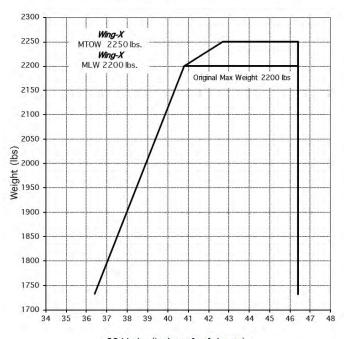
Section 6 – WEIGHT AND BALANCE 172

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.

Cessna 172, 172A, 172B LANDPLANE 145 HP with Wing-X



CG Limits (inches aft of datum)
With wing extensions installed, OPERATE IN NORMAL CATEGORY ONLY

Section 5 – PERFORMANCE 172A, 172B

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

When operating at weights above the original gross weight limit, the stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

TAKE-OFF DISTANCE WITH FLAPS UP, FROM HARD SURFACE RUNWAY WITH FLAPS UP CESSNA 172A and 172B

				SHADED	CELLS ARE	AFM DATA				
			AT SEA LE	VEL & 59°F	AT 2500	FT & 50°F	AT 5000	FT & 41°F	AT 7500	FT & 32°F
GROSS WEIGHT POUNDS	IAS AT 50' MPH	HEAD WIND KNOTS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS
1600	56	0 10 20	380 215 95	725 470 265	460 285 125	560	555 330 160	1000 670 395	680 415 210	1205 820 495
1900	61	0 10 20	560 335 165	1000 675	675 415 210	1185 805	820 515 275	1420	1015 645 360	
2200	66	0 10 20	780 490 260	945	945 605 330	1130	1155 750 425	1995 1410 915	1425 950 560	2495 1805 1205
2250	67	0 10 20	820 520 280	995	995 640 355	1205	1220 795 455	2100 1500 985	1520 1010 600	1920

NOTES: 1. Increase distance 10% for each 25°F above standard temperature for a particular altitude.

Landing Performance

^{2.} Shaded values are original (unchanged) Cessna data and are supplied for reference.

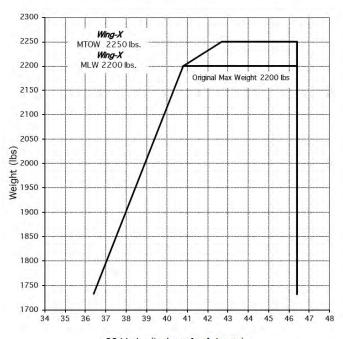
Section 6 – WEIGHT AND BALANCE 172A, 172B

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.

Cessna 172, 172A, 172B LANDPLANE 145 HP with Wing-X



CG Limits (inches aft of datum)
With wing extensions installed, OPERATE IN NORMAL CATEGORY ONLY

Section 5 – PERFORMANCE 172C

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

When operating at weights above the original gross weight limit, the stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

TAKE-OFF DISTANCE WITH FLAPS UP, FROM HARD SURFACE RUNWAY WITH FLAPS UP CESSNA 172C

				SHADED	CELLS ARE	AFM DATA				
	-		AT SEA LE	VEL & 59°F	AT 2500	FT & 50°F	AT 5000	FT & 41°F	AT 7500	FT & 32°F
GROSS WEIGHT POUNDS	IAS AT 50' MPH	HEAD WIND KNOTS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS
1600	56	0 10 20	380 215 95		460 285 125	560	555 330 160	670	680 415 210	820 495
1900	61	0 10 20	560 335 165	675	675 415 210	805	820 515 275	980	1015 645 360	1230
2250	67	0 10 20	825 520 280	995	995 640 355	1205	1220 795 455	1500	1520 1010 600	1920
2300	68	0 10 20	870 550 300	1050	1045 680 380	1270	1285 840 485	1590	1600 1070 640	2035

NOTES: 1. Increase distance 10% for each 25°F above standard temperature for a particular altitude.

2. Shaded values are original (unchanged) Cessna data and are supplied for reference.

Landing Performance

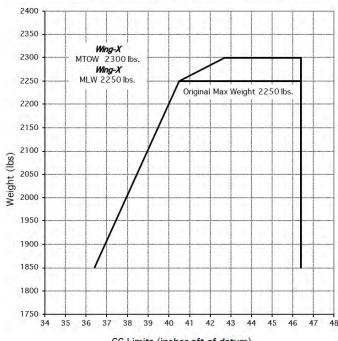
Section 6 – WEIGHT AND BALANCE 172C

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.





CG Limits (inches aft of datum)
With wing extensions installed OPERATE IN NORMAL CATEGORY ONLY

Section 5 – PERFORMANCE 172D, 172E, 172F, 172G, 172H

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

When operating at weights above the original gross weight limit, the stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

TAKE-OFF DISTANCE FROM HARD SURFACE RUNWAY WITH FLAPS UP CESSNA 172D, 172E, 172F, 172G, 172H

				SHADED	CELLS ARE	AFM DATA				
			AT SEA LE	VEL & 59°F	AT 2500	FT & 50°F	AT 5000	FT & 41°F	AT 7500	FT & 32°F
GROSS WEIGHT POUNDS	IAS AT 50' MPH	HEAD WIND KNOTS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS
2350	71	0 10 20		1240 910	1090 790 535	1580	1320 970 670		1650 1225 970	3425
2300	70	0 10 20	865 615 405	1170	1040 750 505	1485	1255 920 630	1965	1565 1160 910	3110
2000	65	0 10 20	630 435 275	820	755 530 340	1005	905 645 425	1250	1120 810 585	1685
1700	60	0 10 20	435 290 175	570	355	680	625 430 270	820	765 535 345	1040

NOTES: 1. Increase distance 10% for each 25°F above standard temperature for a particular altitude.

Landing Performance

For operation on a dry, grass runway, increase distance (both "ground run" and "total to clear a 50 ft. obstacle") by 7% of the "Total to clear 50 ft obstacle" figure.

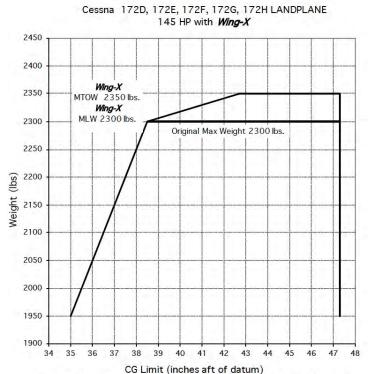
^{3.} Shaded values are original (unchanged) Cessna data and are supplied for reference.

Section 6 – WEIGHT AND BALANCE 172D, 172E, 172F, 172G, 172H

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.



With wing extensions installed OPERATE IN NORMAL CATEGORY ONLY

Section 5 – PERFORMANCE 172I, 172K, 172L

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

When operating at weights above the original gross weight limit, the stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

TAKE-OFF DISTANCE FROM HARD SURFACE RUNWAY WITH FLAPS UP CESSNA 172I, 172K, 172L, 172M

				SHADED	CELLS ARE	AFM DATA				
1			AT SEA LE	VEL & 59°F	AT 2500	FT & 50°F	AT 5000	FT & 41°F	AT 7500	FT & 32°F
GROSS WEIGHT POUNDS	IAS AT 50' MPH	HEAD WIND KNOTS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS						
100		0	950		1145		1385	2835	1735	
2400	70	10	685		835		1025	2265	1295	
		20	455		570		710		1035	
		0	865		1040		1255	2480	1565	3855
2300	68	10	615		750		920		1160	
		20	405		505		630		910	
		0	630		755		905		1120	
2000	63	10	435		530		645		810	
		20			340		425		585	
		0	435	780	520		625	1095	765	1370
1700	59	10	290		355	680	430		535	
		20	175	385	215	470	270	575	345	745

NOTES: 1. Increase distance 10% for each 25°F above standard temperature for a particular altitude.

- For operation on a dry, grass runway, increase distance (both "ground run" and "total to clear a 50 ft. obstacle") by 7% of the "Total to clear 50 ft obstacle" figure.
- 3. Shaded values are original (unchanged) Cessna data and are supplied for reference.

Landing Performance

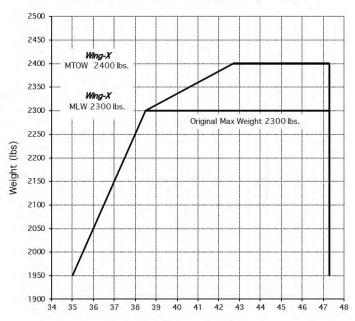
Section 6 – WEIGHT AND BALANCE 172I, 172K, 172L

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.





CG Limits (inches aft of datum)
With wing extensions installed OPERATE IN NORMAL CATEGORY ONLY

Section 5 – PERFORMANCE 172M

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

When operating at weights above the original gross weight limit, the stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

TAKE-OFF DISTANCE FROM HARD SURFACE RUNWAY WITH FLAPS UP CESSNA 172I, 172K, 172L, 172M

				SHADED	CELLS ARE	AFM DATA																					
11			AT SEA LE	VEL & 59°F	AT 2500	FT & 50°F	AT 5000	FT & 41°F	AT 7500	FT & 32°F																	
GROSS WEIGHT POUNDS	IAS AT 50' MPH	HEAD WIND KNOTS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS																							
100		0	950		1145		1385		1735																		
2400	70	10	685		835		1025		1295																		
_		20	455		570		710		1035																		
2.00		0	865		1040		1255		1565																		
2300	68	10	615		750		920		1160																		
			1																20	405		505		630		910	
		0	630		755		905		1120																		
2000	63	10	435		530		645		810																		
	-	20	275	560	340		425	910	585																		
		0	435	780	520		625	1095	765	1370																	
1700	59	10	290		355	680	430		535																		
	1	20	175	385	215	470	270	575	345	745																	

NOTES: 1. Increase distance 10% for each 25°F above standard temperature for a particular altitude.

- For operation on a dry, grass runway, increase distance (both "ground run" and "total to clear a 50 ft. obstacle") by 7% of the "Total to clear 50 ft obstacle" figure.
- 3. Shaded values are original (unchanged) Cessna data and are supplied for reference.

Landing Performance

Section 6 – WEIGHT AND BALANCE 172M

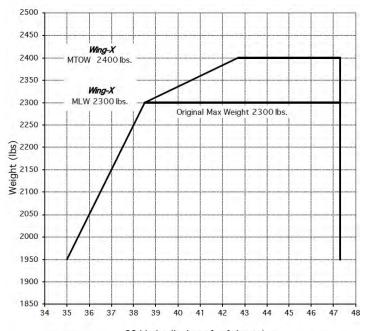
CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Installation of WingExtensions has the following effect on the empty weight of the aircraft.

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.

Cessna 172M LANDPLANE 150 HP with Wing-X



CG Limits (inches aft of datum)
With wing extensions installed OPERATE IN NORMAL CATEGORY ONLY

Section 5 – PERFORMANCE

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

When operating at weights above the original gross weight limit, the stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

TAKE-OFF DISTANCE FROM HARD SURFACE RUNWAY WITH FLAPS UP CESSNA 172N

	TAKEOFI	COPPED			SHADED CE		10°C		20°C		30°C	40°C	
	1	-			0°C						1117		
GROSS WEIGHT POUNDS	OFF KIAS	SO' KIAS	PRESS ALT FT	ROLL FT	TOTAL TO CLEAR 50 FT OBS	GRND ROLL FT	TOTAL TO CLEAR 50 FT OBS	GRND ROLL FT	TOTAL TO CLEAR 50 FT OBS	GRND ROLL FT	TOTAL TO CLEAR 50 FT OBS	ROLL FT	CLEAR 50 FT OBS
	The second secon	60	0			855	1525	920		990		And in concession, in	
2400	53	БО	1000	795 875	1425 1560	940	1680	1010	1640 1795	1080	1750 1925	1060	2055
			2000	955		1025	1840	1105	1975	1190	2115	1275	203
- 1			3000	1050		1130	2025	1215	2180	1315	2340	1405	250
			4000	1155	2075	1245	2235	1335	2410	1440	2590	1550	278
			5000	1270	2295	1375	2480	1480	2675	1590	2885	1705	311
			6000	1395	2560	1515	2765	1635	2985	1755	3230	1890	349
			7000	1550		1675	3085	1805	3350	1945	3635	2100	395
			8000	1720	3190	1860	3480	2000	3785	2160	4135	2325	451
2300	52	59	0	720	1300	775	1390	835	1490	895	1590	960	170
2300			1000	790	1420	850	1525	915	1630	980	1745	1050	186
		2000	865	1555	930	1670	1000	1790	1075	1915	1155	205	
			3000	950		1025	1835	1100	1970	1185	2115	1270	226
			4000	1045	1880	1125	2025	1210	2175	1300	2335	1400	251
			5000	1150	2075	1240	2240	1335	2410	1435	2595	1540	279
			6000	1265	2305	1365	2485	1475	2680	1585	2895	1705	312
			7000	1400	2565	1510	2770	1630	3000	1755	3245	1890	351
			8000	1550	2860	1675	3110	1805	3375	1945	3670	2095	399
2100	50	56	0	585	1070	630	1140	680	1220	725	1300	780	139
			1000	640	1165	690	1245	740	1330	795	1420	850	152
			2000	700	1270	755	1360	810	1455	870	1555	935	166
			3000	770	1390	830	1490	890	1595	955	1710	1025	183
			4000	845	1525	910	1640	980	1755	1050	1880	1130	201
			5000	930	1680	1000	1805	1075	1935	1155	2075	1240	223
			6000	1025	1850	1100	1990	1185	2140	1275	2300	1370	247
			7000	1130	2050	1215	2210	1310	2380	1410	2560	1515	275
			8000	1245	2275	1345	2460	1450	2655	1560	2865	1680	309
1900	47	54	0	470	865	505	920	540	985	580	1045	620	111
			1000	515	940	550	1005	590	1070	635	1140	680	121
			2000	560		605	1095	645	1170	695	1245	745	133
			3000	615	1115	660	1195	710	1275	760	1365	815	145
			4000	670	1220	725	1305	780	1400	835	1495	895	159
			5000	740	1340	795	1435	855	1535	920	1640	985	175
			6000	810		875	1575	940	1690	1010	1810	1085	194
			7000	895		965	1740	1035	1865	1115	2000	1195	214
			8000	985	chnique as s	1065	1925	1145	2065	1230	2220	1320	238

- NOTES: 1. Short field technique as specified in Section 4 of AFM.

 2. Prior to takeoff from fields above 3000 It elevation, the mixture should be leaned to give
 - maximum RPM at full throttle, static runup.
 - 3. Decrease distances 10% for each 9 knots headwind. For operation with tailwinds to 10 knots
 - increase distances by 10% for each 2 knots.
 - 4. For operation on a dry, grass runway, increase distances by 15% of the "ground roll" figure.

Landing Performance

Increase landing distance by 10% with WingExtensions installed.

TCCA Unapproved

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2020.03.22

Section 6 – WEIGHT AND BALANCE 172N

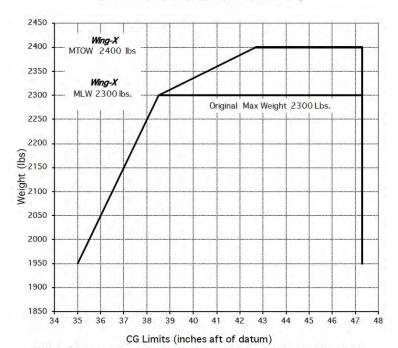
CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Installation of WingExtensions has the following effect on the empty weight of the aircraft.

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.

Cessna 172N LANDPLANE 160 HP with Wing-X



Section 5 – PERFORMANCE 172P

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

When operating at weights above the original gross weight limit, the stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

TAKE-OFF DISTANCE FROM HARD SURFACE RUNWAY WITH FLAPS 10° CESSNA 172P

-	_				SHADED CE			_					
25500000	TAKEOFF	SPEED			0°C	-	10°C		20°C		30°C	3	40°C
GROSS WEIGHT POUNDS	OFF KIAS	50' KIAS	ALT FT	ROLL FT	CLEAR 50 FT OBS								
2450	52	57	0	835	1535	905	1650	975	1770	1050	1905	1120	2045
1400000000	-11000		1000	920	1685	990	1815	1065	1955	1145	2105	1230	2270
			2000	1010	1860	1090	2010	1170	2170	1260	2340	1360	2530
			3000	1110	2065	1200	2235	1295	2425	1395	2620	1500	2840
			4000	1225	2305	1325	2495	1425	2720	1545	2955	1660	3215
			5000	1350	2585	1465	2815	1580	3070	1705	3360	1840	3685
			6000	1500	2920	1625	3205	1755	3515	1900	3865	2045	4279
			7000	1665	3340	1800	3680	1950	4075	2110	4535		
		-	8000	1850	3865	2010	4310	2175	4830				
2400	51	56	0	795	1460	860	1570	925	1685	995	1810	1065	1945
25/10/10	275		1000	875	1605	940	1725	1015	1860	1090	2000	1170	2155
			2000	960	1770	1035	1910	1115	2060	1200	2220	1290	2395
			3000	1055	1960	1140	2120	1230	2295	1325	2480	1425	2685
			4000	1165	2185	1260	2365	1355	2570	1465	2790	1575	3030
			5000	1285	2445	1390	2660	1500	2895	1620	3160	1745	345
			6000	1425	2755	1540	3015	1665	3300	1800	3620	1940	3990
			7000	1580	3140	1710	3450	1850	3805	2000	4220		
			8000	1755	3615	1905	4015	2060	4480				A
2200	49	54	0	650	1195	700	1280	750	1375	805	1470	865	1579
	1		1000	710	1310	765	1405	825	1510	885	1615	950	173
			2000	780	1440	840	1545	905	1660	975	1785	1045	191
			3000	855	1585	925	1705	995	1835	1070	1975	1150	2130
			4000	945	1750	1020	1890	1100	2040	1180	2200	1270	237
			5000	1040	1945	1125	2105	1210	2275	1305	2465	1405	266
			6000	1150	2170	1240	2355	1340	2555	1445	2775	1555	3020
			7000	1270	2440	1375	2655	1485	2890	1605	3155	1730	3450
			8000	1410	2760	1525	3015	1650	3305	1785	3630	1925	4009
2000	46	51	0	525	970	565	1035	605	1110	650	1185	695	1265
			1000	570	1060	615	1135	665	1215	710	1295	765	138
			2000	626	1160	675	1240	725	1330	780	1425	840	1525
			3000	690	1270	740	1365	800	1465	860	1570	920	168
			4000	755	1400	815	1500	880	1615	945	1735	1015	1865
			5000	830	1545	900	1660	970	1790	1040	1925	1120	2070
			6000	920	1710	990	1845	1070	1990	1150	2145	1235	2319
			7000	1015	1900	1095	2055	1180	2225	1275	2405	1370	260!
			8000	1125	2125	1215	2305	1310	2500	1410	2715	1520	2950

- NOTES: 1. Short field technique as specified in Section 4 of AFM.

 2. Print to take off from fields above 2000 ft elevation, the mixture of
 - Prior to takeoff from fields above 3000 ft elevation, the mixture should be leaned to give maximum RPM at full throttle, static runup.
 - Decrease distances 10% for each 9 knots headwind. For operation with tailwinds to 10 knots increase distances by 10% for each 2 knots.
 - 4. For operation on a dry, grass runway, increase distances by 15% of the "ground roll" figure.

Landing Performance

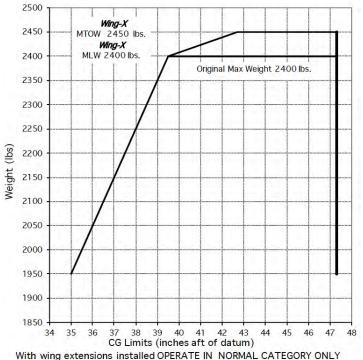
Section 6 – WEIGHT AND BALANCE 172P

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult WingExtension and Spar Reinforcement Installation Guide #172 for details.

Cessna 172P LANDPLANE 160 HP with Wing-X



Section 5 – PERFORMANCE 172Q

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

When operating at weights above the original gross weight limit, the stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

TAKE-OFF DISTANCE FROM HARD SURFACE RUNWAY WITH FLAPS 10°

				_		CELLS ARE AFM DATA		2000			2000	12.22	
	TAKEOFF	SPEED	Augention I		0°C		10°C		20°C		30°C	0	40°C
GROSS	LIFT	AT	PRESS	GRND	TOTAL TO	GRND	TOTAL TO	GRND	TOTAL TO	GRND	TOTAL TO	GRND	TOTAL TO
VEIGHT	OFF	50'	ALT	ROLL	CLEAR 50	ROLL	CLEAR 50	ROLL	CLEAR 50	ROLL	CLEAR 50	ROLL	CLEAR 50
OUNDS	KIAS	KIAS	FT	FT	FT OBS	FT	FT OBS	FT	FT OBS	FT	FT OBS	FT	FT OBS
2675	49	58		965	1705	1030	1825	1110	1955	1205	2115	1290	226
-599905			1000	1055	1865	1135	2010	1220	2160	1320	2335	1415	251
	- 4		2000	1150	2050	1235	2210	1340	2395	1450	2580	1560	278
			3000	1265	2265	1370	2450	1480	2650	1585	2875	1705	312
			4000	1400	2515	1515	2735	1635	2965	1755	3230	1885	350
			5000	1535	2805	1670	3060	1795	3335	1930	3635	2080	397
			6000	1695	3150	1840	3450	1990	3785	2140	4140	2315	457
			7000	1880	3580	2030	3940	2195	4335	2375	4795	2560	533
			8000	2090	4085	2255	4530	2445	5045	2650	5655	2855	641
2550	48	57	0	860	1520	925	1630	995	1750	1070	1880	1150	201
- Colonia	1		1000	940	1665	1015	1790	1090	1925	1175	2070	1260	222
			2000	1030	1830	1110	1970	1195	2125	1290	2285	1385	246
			3000	1130	2015	1220	2175	1315	2350	1415	2535	1520	274
			4000	1245	2320	1345	2415	1450	2615	1560	2830	1675	306
			5000	1370	2480	1480	2690	1595	2920	1720	3170	1850	345
			6000	1510	2770	1635	3015	1765	3290	1900	3585	2050	392
			7000	1670	3120	1805	3410	1950	3735	2105	4100	2270	452
			8000	1850	3535	2000	3890	2165	4295	2340	4760	2525	531
2400	47	55	0	745	1320	805	1415	865	1520	925	1625	995	174
100			1000	815	1445	880	1550	945	1665	1015	1785	1090	191
			2000	895	1585	965	1705	1035	1830	1115	1965	1195	211
			3000	980	1740	1055	1875	1135	2020	1225	2170	1315	233
			4000	1075	1920	1160	2070	1250	2235	1345	2405	1445	259
			5000	1185	2125	1275	2295	1375	2480	1485	2680	1595	290
			6000	1305	2360	1410	2555	1520	2770	1635	3005	1760	326
			7000	1440	2635	1555	2860	1680	3115	1810	3390	1950	370
		-	8000	1590	2960	1720	3230	1860	3530	2005	3865	2165	424
2200	45	53	0	610	1090	660	1165	705	1245	760	1335	815	142
7			1000	670	1190	720	1270	775	1360	830	1460	890	156
			2000	730	1295	785	1390	845	1490	910	1600	975	171
			3000	800	1420	860	1525	930	1635	995	1755	1070	188
			4000	875	1560	945	1675	1020	1800	1095	1935	1175	208
			5000	965	1715	1040	1850	1120	1990	1205	2140	1295	230
			6000		1895	1145	2045	1235	2205	1325	2380	1425	256
			7000	1170	2100	1260	2270	1360	2455	1465	2655	1575	287
			8000		2335	1395	2535	1505	2745	1620	2980	1745	323

- NOTES: 1. Short field technique as specified in Section 4 of AFM.
 - 2. Prior to takeoff from fields above 3000 ft elevation, the mixture should be leaned to give maximum RPM at full throttle, static runup.
 - 3. Decrease distances 10% for each 9 knots headwind. For operation with tailwinds to 10 knots
 - increase distances by 10% for each 2 knots. 4. For operation on a dry, grass runway, increase distances by 15% of the "ground roll" figure.

Landing Performance

Increase landing distance by 10% with WingExtensions installed.

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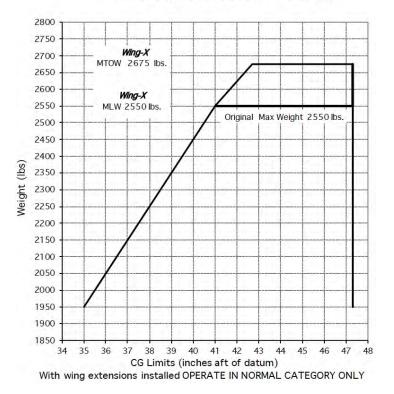
Section 6 – WEIGHT AND BALANCE 172Q

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.

Cessna 172Q LANDPLANE 180 HP with Wing-X



Section 5 – PERFORMANCE 172R (160 HP)

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

The stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

The takeoff distances are approximately the same as the basic aircraft. Refer to the applicable Pilot / Flight Operating Manual.

Landing Performance

Section 6 – WEIGHT AND BALANCE 172R (160 HP)

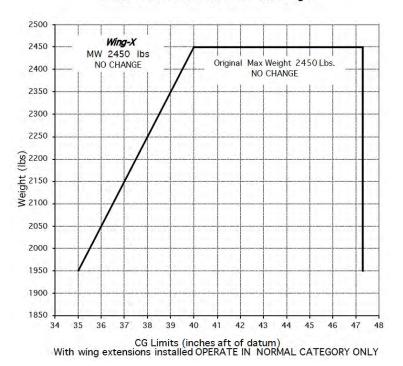
CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Installation of WingExtensions has the following effect on the empty weight of the aircraft.

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.

Cessna 172R LANDPLANE 160 HP with Wing-X



Section 5 – PERFORMANCE 172R (180 HP)

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

When operating at weights above the original gross weight limit, the stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

TAKE-OFF DISTANCE FROM HARD SURFACE RUNWAY WITH FLAPS 10° CESSNA 172R (180 HP), 172S

					SHADED CE				-10110	_			Value -
	TAKEOFF		Jan 1		0°C		10°C		20°C		30°C		40°C
GROSS	LIFT	AT	PRESS	GRND	TOTAL TO	GRND	TOTAL TO	GRND	TOTAL TO	GRND	TOTAL TO	GRND	TOTAL TO
WEIGHT	OFF	50'	ALT	ROLL	CLEAR 50	ROLL	CLEAR 50	ROLL	CLEAR 50	ROLL	CLEAR 50	ROLL	CLEAR 50
POUNDS	KIAS	KIAS	FT	FT	FT OBS	FT	FT OBS	FT	FT OBS	FT	FT OBS	FT	FT OBS
2675	54	58	0	965	1640	1040	1760	1120	1885	1205	2030	1290	218
			1000	1060	1790	1135	1925	1230	2070	1320	2240	1425	240
			2000	1155	1970	1255	2125	1350	2285	1445	2465	1555	265
			3000	1270	2165	1365	2340	1475	2525	1590	2730	1710	295
			4000	1390	2385	1505	2590	1625	2800	1750	3050	1870	327
			5000	1525	2650	1645	2885	1795	3125	1930	3395	2060	367
			6000	1690	2950	1820	3225	1970	3510	2120	3810	2275	413
			7000	1855	3325	2025	3625	2170	3950	2340	4310	2505	469
			8000	2065	3750	2230	4125	2405	4495	2590	4930	2780	543
2550	51	56	0	860	1465	925	1575	995	1690	1070	1810	1150	194
			1000	940	1600	1010	1720	1090	1850	1170	1990	1260	213
			2000	1025	1755	1110	1890	1195	2035	1285	2190	1380	235
			3000	1125	1925	1215	2080	1310	2240	1410	2420	1515	260
			4000	1235	2121	1335	2295	1440	2480	1550	2685	1660	288
			5000	1355	2345	1465	2545	1585	2755	1705	2975	1825	320
			6000	1495	2605	1615	2830	1745	3075	1875	3320	2010	358
			7000	1645	2910	1785	3170	1920	3440	2065	3730	2215	404
			8000	1820	3265	1970	3575	2120	3880	2280	4225	2450	461
2400	48	54	0	745	1275	800	1370	860	1470	925	1570	995	168
			1000	810	1390	875	1495	940	1605	1010	1720	1085	184
			2000	885	1520	955	1635	1030	1760	1110	1890	1190	203
			3000	970	1665	1050	1795	1130	1930	1215	2080	1305	223
			4000	1065	1830	1150	1975	1240	2130	1335	2295	1430	245
			5000	1170	2015	1265	2180	1360	2355	1465	2530	1570	271
			6000	1285	2230	1390	2410	1500	2610	1610	2805	1725	301
			7000	1415	2470	1530	2685	1650	2900	1770	3125	1900	337
			8000	1560	2755	1690	3000	1815	3240	1950	3500	2095	379
2200	44	50	0	610	1055	655	1130	705	1205	760	1290	815	138
			1000	665	1145	720	1230	770	1315	830	1410	890	150
			2000	725	1250	785	1340	845	1435	905	1540	975	165
			3000	795	1365	860	1465	925	1570	995	1685	1065	180
			4000	870	1490	940	1605	1010	1725	1090	1855	1165	197
			5000	955	1635	1030	1765	1110	1900	1195	2035	1275	217
			6000	1050	1800	1130	1940	1220	2090	1310	2240	1400	239
			7000	1150	1985	1245	2145	1340	2305	1435	2475	1540	265
			8000	1270	2195	1370	2375	1475	2555	1580	2745	1695	295

- NOTES: 1, Short field technique as specified in Section 4 of AFM.
 - 2. Prior to takeoff from fields above 3000 ft elevation, the mixture should be leaned to give maximum RPM at full throttle, static runup.
 - 3. Decrease distances 10% for each 9 knots headwind. For operation with tailwinds to 10 knots increase distances by 10% for each 2 knots.

 4. For operation on a dry, grass runway, increase distances by 15% of the "ground roll" figure.

Landing Performance

Increase landing distance by 10% with WingExtensions installed.

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Section 6 – WEIGHT AND BALANCE 172R (180 HP)

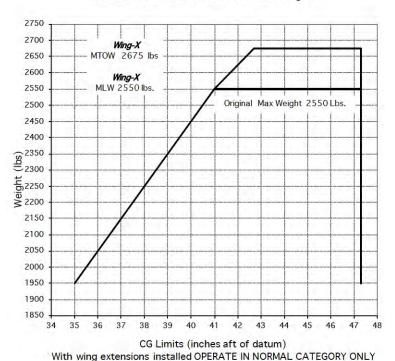
CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Installation of WingExtensions has the following effect on the empty weight of the aircraft.

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.

Cessna 172R LANDPLANE 180 HP with Wing-X



Section 5 – PERFORMANCE 172S

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

When operating at weights above the original gross weight limit, the stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

TAKE-OFF DISTANCE FROM HARD SURFACE RUNWAY WITH FLAPS 10° CESSNA 172R (180 HP), 172S

					SHADED CE								
	TAKEOFF	SPEED			0°C		10°C		20°C		30°C		40°C
GROSS WEIGHT	OFF	AT 50'	PRESS	GRND ROLL	TOTAL TO CLEAR 50	GRND	TOTAL TO CLEAR 50						
POUNDS	KIAS	KIAS	FT	FT	FT OBS	FT	FT OBS						
2675	54	58		965	1640	1040	1760	1120	1885	1205	2030	1290	218
			1000	1060	1790	1135	1925	1230	2070	1320	2240	1425	240
			2000	1155	1970	1255	2125	1350	2285	1445	2465	1555	26
			3000	1270	2165	1365	2340	1475	2525	1590	2730	1710	29
			4000	1390	2385	1505	2590	1625	5800	1750	3050	1870	32
			5000	1525	2650	1645	2885	1795	3125	1930	3395	2060	363
			6000	1690	2950	1820	3225	1970	3510	2120	3810	2275	413
			7000	1855	3325	2025	3625	2170	3950	2340	4310	2505	469
			8000	2065	3750	2230	4125	2405	4495	2590	4930	2780	543
2550	51	56	100000	860	1465	925	1575	995	1690	1070	1810	1150	194
	-		1000	940	1600	1010	1720	1090	1850	1170	1990	1260	213
			2000	1025	1755	1110	1890	1195	2035	1285	2190	1380	23
			3000	1125	1925	1215	2080	1310	2240	1410	2420	1515	26
			4000	1235	2121	1335	2295	1440	2480	1550	2685	1660	28
			5000	1355	2345	1465	2545	1585	2755	1705	2975	1825	320
			6000	1495	2605	1615	2830	1745	3075	1875	3320	2010	35
			7000	1645	2910	1785	3170	1920	3440	2065	3730	2215	404
			8000	1820	3265	1970	3575	2120	3880	2280	4225	2450	46.
2400	48	54	0	745	1275	800	1370	860	1470	925	1570	995	168
			1000	810	1390	875	1495	940	1605	1010	1720	1085	18
			2000	885	1520	955	1635	1030	1760	1110	1890	1190	203
			3000	970	1665	1050	1795	1130	1930	1215	2080	1305	223
			4000	1065	1830	1150	1975	1240	2130	1335	2295	1430	245
			5000	1170	2015	1265	2180	1360	2355	1465	2530	1570	27.
			6000	1285	2230	1390	2410	1500	2610	1610	2805	1725	30
			7000	1415	2470	1530	2685	1650	2900	1770	3125	1900	337
			8000	1560	2755	1690	3000	1815	3240	1950	3500	2095	379
2200	44	50	0	610	1055	655	1130	705	1205	760	1290	815	138
			1000	665	1145	720	1230	770	1315	830	1410	890	15
			2000	725	1250	785	1340	845	1435	905	1540	975	16
			3000	795	1365	860	1465	925	1570	995	1685	1065	180
			4000	870	1490	940	1605	1010	1725	1090	1855	1165	197
			5000	955	1635	1030	1765	1110	1900	1195	2035	1275	217
			6000	1050	1800	1130	1940	1220	2090	1310	2240	1400	239
	-		7000	1150	1985	1245	2145	1340	2305	1435	2475	1540	269
			8000	1270	2195	1370	2375	1475	2555	1580	2745	1695	295

- NOTES: 1. Short field technique as specified in Section 4 of AFM.
 - 2. Prior to takeoff from fields above 3000 ft elevation, the mixture should be leaned to give maximum RPM at full throttle, static runup.
 - 3. Decrease distances 10% for each 9 knots headwind. For operation with tailwinds to 10 knots increase distances by 10% for each 2 knots.

 4. For operation on a dry, grass runway, increase distances by 15% of the "ground roll" figure.

Landing Performance

Increase landing distance by 10% with WingExtensions installed.

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Section 6 – WEIGHT AND BALANCE 172S

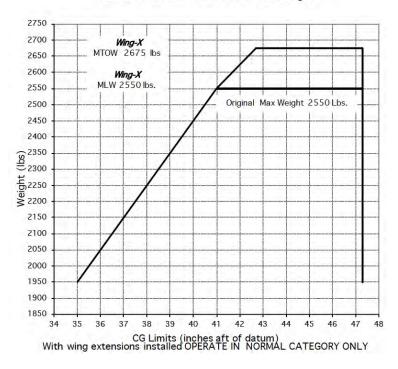
CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Installation of WingExtensions has the following effect on the empty weight of the aircraft.

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.

Cessna 172S LANDPLANE 180 HP with Wing-X



Section 5 – PERFORMANCE P172D

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

The stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

The takeoff distances are approximately the same as the basic aircraft. Refer to the applicable Pilot / Flight Operating Manual.

Landing Performance

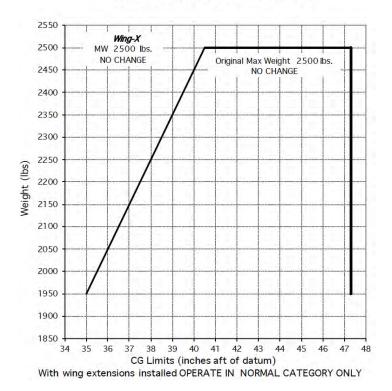
Section 6 – WEIGHT AND BALANCE P172D

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.

Cessna P172D LANDPLANE 175 HP with Wing-X



Section 5 – PERFORMANCE 175

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

When operating at weights above the original gross weight limit, the stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

TAKE-OFF DISTANCE FROM HARD SURFACE RUNWAY WITH FLAPS UP CESSNA 175, 175A, 175B

				SHADED	CELLS ARE	AFM DATA				
			AT SEA LE	VEL & 59°F	AT 2500	FT & 50°F	AT 5000	FT & 41°F	AT 7500	FT & 32°F
GROSS WEIGHT POUNDS	IAS AT 50' MPH	HEAD WIND KNOTS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS
1700	51	0 10 20	345 180 65	680 420 210	410 220 85	805 505 265	490 265 110	940 600 320	595 335 145	735
2000	55	0 10 20	495 270 110	950 625 330	595 335 145	1120 725 405	715 410 185	1330 880 505	870 515 245	1045
2350	60	0 10 20	735 420 190	1340 875 535	875 515 245		1040 630 315	1345	1295 800 415	
2450	61	0 10 20	815 470 220	1465 950 605	970 575 280	1180	1145 705 360	2205 1505 930	1435 895 475	1975

S: 1. Increase distance 10% for each 25°F above standard temperature for a particular altitude.

Landing Performance

^{2.} Shaded values are original (unchanged) Cessna data and are supplied for reference.

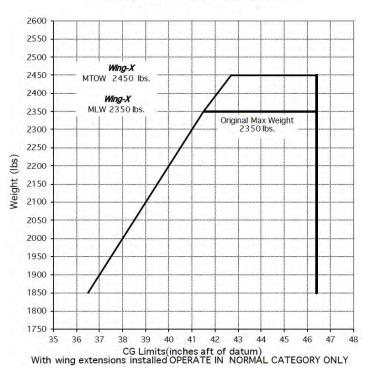
Section 6 – WEIGHT AND BALANCE 175

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.

Cessna 175 LANDPLANE 175 HP with Wing-X



Section 5 – PERFORMANCE 175A, 175B

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

When operating at weights above the original gross weight limit, the stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance TAKE-OFF DISTANCE FROM HARD SURFACE RUNWAY WITH FLAPS UP

CESSNA 175, 175B

				SHADED	LELLS ARE	AFM DATA				
			AT SEA LE	VEL & 59°F	AT 2500	FT & 50°F	AT 5000	FT & 41°F	AT 7500	FT & 32°F
GROSS WEIGHT POUNDS	IAS AT 50' MPH	HEAD WIND KNOTS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS	GROUND RUN	TOTAL TO CLEAR 50 FT OBS
1700	51	0 10 20	345 180 65	420	410 220 85	505	490 265 110	600	595 335 145	735
2000	55	0 10 20	495 270 110	950 625	595 335 145	1120 725	715 410 185	1330 880	870 515 245	1560 1045
2350	60	0 10 20	735 420 190	1340 875	875 515 245	1595 1065	1040 630 315	1980 1345	1295 800 415	2570 1720
2450	61	0 10 20	815 470 220	950	970 575 280	1180	1145 705 360	1505	1435 895 475	1975

OTES: 1. Increase distance 10% for each 25°F above standard temperature for a particular altitude.

Landing Performance

^{2.} Shaded values are original (unchanged) Cessna data and are supplied for reference.

Section 6 – WEIGHT AND BALANCE 175A, 175B

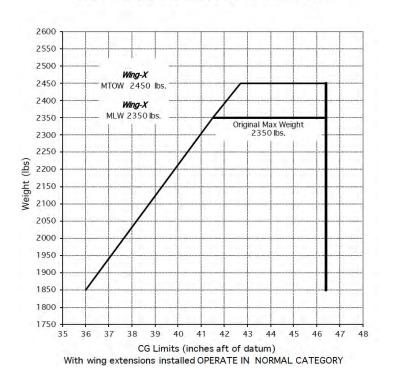
CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Installation of WingExtensions has the following effect on the empty weight of the aircraft.

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.

Cessna 175A and 175B LANDPLANE 175 HP with Wing-X



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Section 5 – PERFORMANCE 175C

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

The stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

The takeoff distances are approximately the same as the basic aircraft. Refer to the applicable Pilot / Flight Operating Manual.

Landing Performance

Section 6 – WEIGHT AND BALANCE 175C

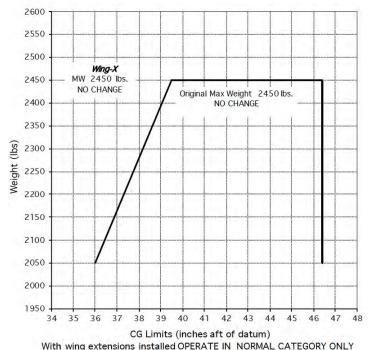
CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Installation of WingExtensions has the following effect on the empty weight of the aircraft.

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.

Cessna 175C LANDPLANE 175 HP with Wing-X



Section 5 – PERFORMANCE R172E, R172F

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

When operating at weights above the original gross weight limit, the stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

TAKE-OFF DISTANCE FROM HARD SURFACE RUNWAY WITH FLAPS 10° CESSNA R172E, R172F

				SHADED CELLS ARE AFM DATA			data source: T-41C page A7			
		0.00	AT SEA LE	VEL & 59°F	AT 2500	FT & 50°F	AT 5000	FT & 41°F	AT 7500	FT & 32°F
GROSS WEIGHT	IAS AT	HEAD WIND	GROUND	TOTAL TO CLEAR 50	GROUND	TOTAL TO CLEAR 50	GROUND	TOTAL TO CLEAR 50	GROUND	TOTAL TO CLEAR 50
POUNDS	50' MPH	KNOTS	RUN	FT OBS	RUN	FT OBS	RUN	FT OBS	RUN	FT OBS
	77.5	0	960	1505	1115	1720	1270	1965	1605	2490
2625	72	10	685	1130	800	1315	925	1515	1165	1960
1		20	445	810	535	945	630	1110	840	1445
1000		0	860	1360	1000	1555	1135	1765	1435	2225
2500	70	10	605	1020	710	1175	820	1350	1050	1730
		20	390	720	470	840	550	980	730	1270
		0	645	1055	750	1200	845	1340	1070	1670
2200	66	10	440	780	520	890	595	1005	785	1265
	- 1	20	275	535	330	620	385	715	505	910
		0	470	805	540	905	610	1000	770	1230
1900	61	10	310	580	365	680	415	740	535	915
		20	180	390	220	445	260	510	340	640

NOTES: 1. Increase distance 10% for each 25°F above standard temperature for a particular altitude. 2. Shaded values are original (unchanged) Cessna data and are supplied for reference. These values were adjusted from AFM table because provided values were illogical.

Landing Performance

Section 6 – WEIGHT AND BALANCE R172E, R172F

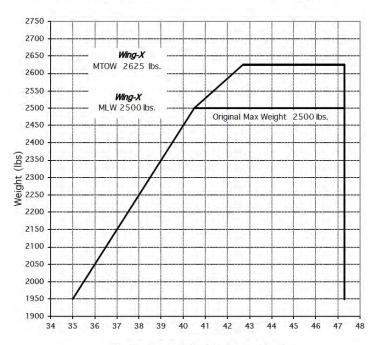
CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Installation of WingExtensions has the following effect on the empty weight of the aircraft.

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.

Cessna R172E and R172F LANDPLANE 210 HP with Wing-X



CG is depicted in (inches aft of datum)
With wing extensions installed OPERATE IN NORMAL CATEGORY ONLY

Section 5 – PERFORMANCE R172G, R172J

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

When operating at weights above the original gross weight limit, the stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

TAKE-OFF DISTANCE FROM HARD SURFACE RUNWAY WITH FLAPS 10° CESSNA R172G, R172J

				SHADED CELLS ARE AFM DATA			data source: T-41D page A9			e A9
			AT SEA LE	VEL & 59°F	AT 2500	FT & 50°F	AT 5000	FT & 41°F	AT 7500	FT & 32°F
GROSS		HEAD	U	TOTAL TO		TOTAL TO		TOTAL TO		TOTAL TO
WEIGHT	IAS AT 50' MPH	WIND	GROUND	CLEAR 50 FT OBS	GROUND	CLEAR 50 FT OBS	GROUND	CLEAR 50 FT OBS	GROUND	CLEAR 50 FT OBS
1.1.1.1.1.1		0	830	1360	985	1590	1190	1920	1445	
2675	73	10	585	1020	710	1225	870	1490	1065	1835
		20	380	735	475	895	595	1100	750	1385
1000	-	0	740	1230	880	1440	1065	1725	1290	2095
2550	71	10	520	925	630	1100	770	1330	945	1630
	0.00	20	335	660	415	795	520	975	655	1215
	70	0	525	920	625	1070	755	1255	910	1495
2200	66	10	360	685	435	800	530	950	650	1140
10.40	- 1	20	225	475	275	560	345	680	430	825
		0	380	710	450	810	540	940	650	1105
1900	61	10	250		305	595	370	700	450	
		20	150	350	185	410	230	485	285	585

NOTES: 1. Increase distance 10% for each 25°F above standard temperature for a particular altitude.

2. Shaded values are original (unchanged) Cessna data and are supplied for reference.

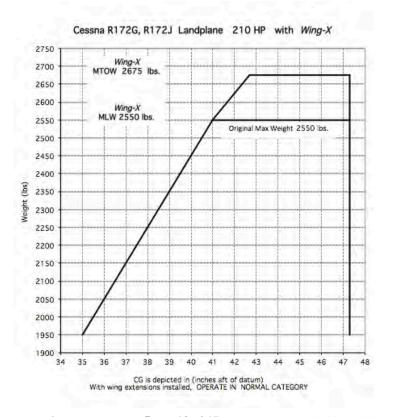
Landing Performance

Section 6 – WEIGHT AND BALANCE R172G, R172J

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.



Section 5 – PERFORMANCE R172H

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

The stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

The takeoff distances are approximately the same as the basic aircraft. Refer to the applicable Pilot / Flight Operating Manual.

Landing Performance

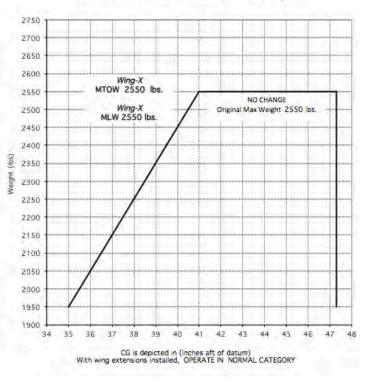
Section 6 – WEIGHT AND BALANCE R172H

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.





Section 5 – PERFORMANCE R172K

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

When operating at weights above the original gross weight limit, the stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

TAKE-OFF DISTANCE FROM HARD SURFACE RUNWAY WITH FLAPS 10°

_					SHADED CE					_			
	TAKEOFF SPEED			0°C		10°C		20°C		30°C		40°C	
GROSS	LIFT	AT	PRESS	GRND	TOTAL TO	GRND	TOTAL TO	GRND	TOTAL TO	GRND	TOTAL TO	GRND	TOTAL TO
WEIGHT	OFF	50'	ALT	ROLL	CLEAR 50	ROLL	CLEAR 50	ROLL	CLEAR 50	ROLL	CLEAR 50	ROLL	CLEAR 50
POUNDS	KIAS	KIAS	FT	FT	FT OBS	FT	FT OBS	FT	FT OBS	FT	FT OBS	FT	FT OBS
2675	57	61	0	800	1360	860	1465	930	1575	1005	1680	1070	181
			1000	865	1485	940	1600	1005	1715	1090	1855	1175	199
			2000	960	1630	1025	1750	1120	1890	1200	2040	1290	220
			3000	1045	1785	1130	1930	1220	2090	1320	2250	1415	244
			4000	1145	1980	1245	2135	1335	2320	1445	2505	1560	272
			5000	1260	2190	1365	2380	1480	2585	1595	2800	1720	306
			6000	1395	2430	1500	2650	1630	2885	1760	3155	1900	346
			7000	1530	2735	1665	2980	1795	3260	1945	3580	2100	395
			8000	1690	3085	1835	3385	1990	3725	2150	4110	2340	459
2550	56	60	0	715	1225	770	1315	830	1410	895	1510	960	162
			1000	780	1335	840	1435	905	1540	975	1655	1050	178
			2000	855	1460	920	1570	995	1690	1070	1820	1150	196
			3000	935	1600	1010	1725	1090	1860	1175	2005	1265	216
			4000	1025	1760	1110	1900	1195	2055	1290	2220	1390	240
			5000	1125	1945	1220	2105	1315	2280	1420	2470	1530	268
			6000	1240	2155	1340	2340	1450	2540	1565	2765	1690	301
			7000	1365	2405	1480	2615	1600	2850	1730	3115	1870	341
			8000	1510	2695	1635	2945	1770	3225	1915	3545	2075	392
2400	54	58	0	620	1070	670	1145	720	1225	775	1315	835	141
77.00			1000	680	1165	730	1250	790	1340	845	1435	910	154
			2000	740	1270	800	1365	860	1465	925	1575	995	169
			3000	810	1390	875	1495	945	1605	1015	1730	1095	186
			4000	890	1520	960	1640	1035	1765	1115	1905	1200	205
			5000	975	1675	1055	1805	1135	1950	1225	2110	1320	228
			6000	1070	1850	1160	2000	1250	2165	1350	2345	1455	254
			7000	1180	2050	1275	2220	1380	2410	1490	2620	1610	285
			8000	1305	2280	1410	2480	1525	2700	1650	2950	1780	322
2200	52	56	0	510	880	550	940	590	1005	635	1075	680	115
			1000	555	955	600	1025	645	1095	690	1175	740	125
			2000	605	1040	655	1115	705	1195	755	1280	810	137
			3000	660	1135	715	1215	770	1305	825	1400	890	150
			4000	725	1240	780	1330	840	1430	905	1535	975	165
			5000	795	1355	855	1460	925	1570	995	1690	1070	182
			6000	870	1490	940	1605	1015	1730	1095	1865	1175	201
			7000	955	1645	1035	1770	1115	1915	1205	2065	1295	223
			8000	1055	1815	1140	1965	1230	2125	1330	2300	1430	249

- NOTES: 1. Short field technique as specified in Section 4 of AFM.
 - Prior to takeoff from fields above 3000 ft elevation, the mixture should be leaned to give maximum RPM at full throttle, static runup.
 - Decrease distances 10% for each 9 knots headwind. For operation with tailwinds to 10 knots increase distances by 10% for each 2 knots.
 - 4. For operation on a dry, grass runway, increase distances by 15% of the "ground roll" figure.

Landing Performance

Increase landing distance by 10% with WingExtensions installed.

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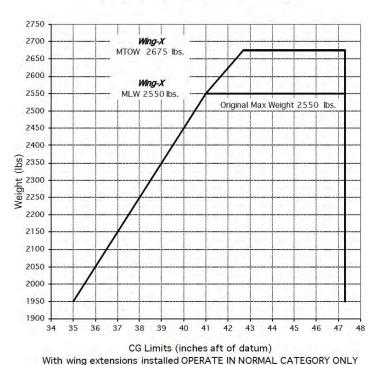
Section 6 – WEIGHT AND BALANCE R172K

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)
WingExtensions (LH + RH)	16.0	52.0	832
Internal Reinforcements	1.0	36.0	36
Stainless Steel Straps (if required)*	1.0	36.0	36

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.

Cessna R172K LANDPLANE 195 HP with Wing-X



Section 5 – PERFORMANCE 172RG

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

The information found in the basic airplane Flight / Operating Manual applies for both landplane and seaplane configurations, except as listed below.

Stall Speeds

The stalling speeds are approximately the same as the basic aircraft stall speeds. Refer to the applicable Pilot / Flight Operating Manual.

Takeoff Performance

The takeoff distances are approximately the same as the basic aircraft. Refer to the applicable Pilot / Flight Operating Manual.

Landing Performance

Section 6 – WEIGHT AND BALANCE 172RG

CAUTION: USE PAGE APPLICABLE TO YOUR MODEL

Item	Weight (lbs)	Arm (in)	Moment (lb.in.)	
WingExtensions (LH + RH)	16.0	52.0	832	
Internal Reinforcements	1.0	36.0	36	
Stainless Steel Straps (if required)*	1.0	36.0	36	

^{*} some wings require installation of an external stainless steel strap at wing station 100. Consult *WingExtension* and Spar Reinforcement Installation Guide #172 for details.

