

Cessna 172		Year		First Flights <=40 Hours		Total Accidents		5/23/15		First Flights <=40 Hours		Use new Purchase Flag - 7/18		6/9/15	
Total * accidents		1553		0	2	1553		0	2	1553		0	2	12/29/2013 - Changed roll-up for power loss to look for over 2, instead of just 3	
Fatal Accidents		203	13.1%	0.0%	0.3%	203	13.1%	0.0%	0.3%	203	13.1%	0.0%	0.3%		
Average Pilot Hours		1265	In Type 314	Av. Acc/Yr	119.5	Average Pilot Hours		1265	In Type 314	Av. Acc/Yr	119.5				
Median Pilot Hours		194	In Type 80			Median Pilot Hours		246	In Type 104.5						
Median Fatal		300	In Type 96			Median Fatal		300	In Type 96						
Average Aircraft Hours/year		333.2		Average Aircraft Hours/year		333.2									
Less Time in Type		635	98.0%	648	Threshold	2		Less Time in Type		635	97.99%	648			
First Flight Purchased		0	0.00%	Threshold	1	First Flight Purchased		0	0.00%						
Median Time in Type if Purchased		80													
Max Time in Type		26000													
<i>Change in names of Phases, this section is not as reliable</i>															
<i>Phase of Flight (percent of cases where phase is given)</i>															
		Each Accident Is		0.06%		of the Total		Baseline Cessnas							
		Primary Only		Both		Primary Only		Both							
Pilot Miscontrol	947	61.0%	953	61.4%	947	61.0%	953	61.4%	Approach	6.9%	10.6%	6.9%	10.6%		
Builder Error	5	0.3%	5	0.3%	5	0.3%	5	0.3%	Climb	1.2%	3.5%	1.2%	3.5%		
Maintenance Error	32	2.1%	35	2.3%	32	2.1%	35	2.3%	Cruise	5.8%	16.2%	5.8%	16.2%		
Undetermined Loss of Power	53	3.4%	54	3.5%	53	3.4%	54	3.5%	Descent	1.6%	7.7%	1.8%	7.7%		
Engine Mechanical	36	2.3%	104	6.7%	36	2.3%	104	6.7%	Emergency descent/landing	0.7%	1.4%	0.7%	1.4%		
Engine Controller/Electronic Ignition	0	0.0%	0	0.0%	0	0.0%	0	0.0%	Emergency landing	2.2%	0.7%	2.2%	0.7%		
Fuel System	11	0.7%	16	1.0%	11	0.7%	16	1.0%	Go-around (VFR)	1.6%	1.4%	1.6%	1.4%		
Landing Gear/Brakes	8	0.5%	17	1.1%	8	0.5%	17	1.1%	Hover	0.0%	0.0%	0.0%	0.0%		
Other Mechanical	20	1.3%	28	1.8%	20	1.3%	28	1.8%	Landing	40.4%	2.1%	40.4%	2.1%		
Fuel Exhaustion	89	5.7%	93	6.0%	89	5.7%	93	6.0%	Landing - flare/touchdown	7.4%	0.0%	7.4%	0.0%		
Fuel Starvation	10	0.6%	10	0.6%	10	0.6%	10	0.6%	Landing - roll	6.0%	0.7%	6.0%	0.7%		
Carb Ice	24	1.5%	25	1.6%	24	1.5%	25	1.6%	Maneuvering	6.5%	28.9%	6.5%	28.9%		
VFR to IFR	55	3.5%	60	3.9%	55	3.5%	60	3.9%	Maneuvering - turn to landing	0.2%	0.7%	0.2%	0.7%		
Maneuvering at low alt	54	3.5%	55	3.5%	54	3.5%	55	3.5%	Other	0.2%	0.7%	0.2%	0.7%		
Inadequate Preflight	17	1.1%	26	1.7%	17	1.1%	26	1.7%	Standing	1.8%	2.1%	1.8%	2.1%		
Fuel Contamination	12	0.8%	14	0.9%	12	0.8%	14	0.9%	Takeoff	12.5%	11.3%	12.5%	11.3%		
Midair Collision	35	2.3%	36	2.3%	35	2.3%	36	2.3%	Takeoff - roll/run	2.2%	0.0%	2.2%	0.0%		
Turbulence/Winds	6	0.4%	8	0.5%	6	0.4%	8	0.5%	Taxi	4.5%	0.0%	4.5%	0.0%		
Loss of Control (Unknown)	7	0.5%	7	0.5%	7	0.5%	7	0.5%	Unknown	0.9%	3.5%	0.9%	3.5%		
Taxi Accident	10	0.6%	10	0.6%	10	0.6%	10	0.6%							
Undetermined	9	0.6%	9	0.6%	9	0.6%	9	0.6%							
Other	115	7.4%	525	33.8%	115	7.4%	525	33.8%							
		1555	100.1%	1555	100.1%										
		By year													
										Year		* Overall		Year	
										1998		121		121	
										1999		112		112	
										2000		100		100	
										2001		102		102	
										2002		112		112	
										2003		115		115	
										2004		89		89	
										2005		157		157	
										2006		121		121	
										2007		146		146	
										Overall		151		151	
										2008		108		108	
										2009		119		119	
										2010		0		0	
										2011		0		0	
										2012		0		0	
										2013		0		0	

		Overall		(Percent of time Subevent was involved in Miscontrol)		* Baseline		* Baseline		FF		0		0.0%	
		Overall		Winds		25.7%		25.7%		<=10 Not FF		0		0%	
		Overall		Failure to maintain airspeed		7.5%		7.5%							
		Overall		Other loss of control		0.4%		0.4%							
		Overall		Engine Types in Accident		* Baseline		FF		0		0.0%			
		Overall		Traditional		64.5%		64.5%		0		0%			
		Overall		Aftermarket Traditional		0.0%		0.0%		0		0%			
		Overall		Foreign		0.0%		0.0%		0		0%			
		Overall		Non-Cert 4 Stroke		0.0%		0.0%		0		0%			
		Overall		Auto Conversion		0.0%		0.0%		0		0%			
		Overall		Two Stroke		0.0%		0.0%		0		0%			
		Overall		Turbine		0.0%		0.0%		0		0%			
		Overall		Not Specified		35.5%		35.5%		0		0%			
		Overall		Accidents referencing Airspeed Control		5.3%		5.3%		0		0%			
		Overall		Number		732		732		0		0%			
		Overall		# with AF Hours		732		732		10		0.0%			
		Overall		# with AF Hours and FF		732		732		10		0.0%			
		Overall		# with TiT Hours		857		857		20		0.1%			
		Overall								30		0.1%			
		Overall								40		0.3%			
		Overall								50		0.3%			
		Overall								60		0.3%			
		Overall								70		0.5%			
		Overall								80		0.7%			
		Overall								90		0.8%			
		Overall								100		1.1%			
		Overall								200		2.6%			
		Overall								300		3.6%			
		Overall								400		5.1%			
		Overall								500		6.1%			
		Overall								600		7.1%			
		Overall								700		8.1%			
		Overall								800		8.5%			
		Overall								900		9.4%			
		Overall								1000		10.1%			
		Overall								1500		14.1%			
		Overall								2000		17.5%			
		Overall								25		3.4%			
		Overall								128		17.5%			
		Overall								25		3.4%			
		Overall								128		17.5%			
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		Overall								128		17.5%			
		Overall								25		3.4%			
		Overall								128		17.5%			
		Overall								25		3.4%			
		Overall								128		17.5%			
		Overall								25		3.4%			
		Overall													

Enter Aircraft Name: Cherokee 140 Gear Type *

Added Pilot TIT category 7/4/2010 6/9/15
Use new Purchase Flag - 7/18

Total Cherokee 140 accidents	180		Total Accidents	180
Fatal Accidents	38	21.1%	Fatal Accidents	38
Average Pilot Hours	1434	In Type 342	Average Pilot Hours	1434
Median Pilot Hours	430	In Type 128	Median Pilot Hours	430
Median Fatal	450	In Type 63	Median Fatal	450
Average Aircraft Hours/year	143.7		Average Aircraft Hours/year	143.7

Change in names of Phases, this section is not as reliable
Phase of Flight (percent of cases where phase is given)

	Each Accident Is	0.56%	of the Total		All			
			Primary Only	Both	Primary Only	Both		
Pilot Miscontrol	71	39.4%	72	40.0%	71	39.4%	72	40.0%
Builder Error	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Maintenance Error	9	5.0%	9	5.0%	9	5.0%	9	5.0%
Undetermined Loss of Power	13	7.2%	13	7.2%	13	7.2%	13	7.2%
Engine Mechanical	7	3.9%	21	11.7%	7	3.9%	21	11.7%
Engine Controller/Electronic Ignition	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Fuel System	1	0.6%	7	3.9%	1	0.6%	7	3.9%
Landing Gear/Brakes	3	1.7%	4	2.2%	3	1.7%	4	2.2%
Other Mechanical	4	2.2%	6	3.3%	4	2.2%	6	3.3%
Fuel Exhaustion	11	6.1%	11	6.1%	11	6.1%	11	6.1%
Fuel Starvation	8	4.4%	8	4.4%	8	4.4%	8	4.4%
Carb Ice	4	2.2%	4	2.2%	4	2.2%	4	2.2%
VFR to IFR	12	6.7%	12	6.7%	12	6.7%	12	6.7%
Maneuvering at low alt	6	3.3%	8	4.4%	6	3.3%	8	4.4%
Inadequate Preflight	2	1.1%	2	1.1%	2	1.1%	2	1.1%
Fuel Contamination	2	1.1%	2	1.1%	2	1.1%	2	1.1%
Midair Collision	2	1.1%	2	1.1%	2	1.1%	2	1.1%
Turbulence/Winds	1	0.6%	3	1.7%	1	0.6%	3	1.7%
Loss of Control (Unknown)	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Taxi Accident	1	0.6%	1	0.6%	1	0.6%	1	0.6%
Undetermined	3	1.7%	3	1.7%	3	1.7%	3	1.7%
Other	20	11.1%	66	36.7%	20	11.1%	65	36.1%
	180	100.0%			180	100.0%		

Phase of Flight	Cherokee		All	
	Cherokee	All	All Fatal	All Fatal
Approach	8.9%	13.2%	8.9%	13.2%
Climb	3.0%	5.3%	3.0%	5.3%
Cruise	5.9%	13.2%	5.9%	13.2%
Descent	1.2%	5.3%	1.2%	5.3%
Emergency descent/landing	2.4%	0.0%	2.4%	0.0%
Emergency landing	4.7%	0.0%	4.7%	0.0%
Go-around (VFR)	4.1%	2.6%	4.1%	2.6%
Hover	0.0%	0.0%	0.0%	0.0%
Landing	26.6%	5.3%	26.6%	5.3%
Landing - flare/touchdown	3.0%	0.0%	3.0%	0.0%
Landing - roll	7.1%	0.0%	7.1%	0.0%
Maneuvering	8.9%	28.9%	8.9%	28.9%
Maneuvering - turn to landing	0.0%	0.0%	0.0%	0.0%
Other	0.0%	0.0%	0.0%	0.0%
Standing	0.0%	0.0%	0.0%	0.0%
Takeoff	19.5%	10.5%	19.5%	10.5%
Takeoff - roll/run	1.8%	0.0%	1.8%	0.0%
Taxi	2.4%	0.0%	2.4%	0.0%
Unknown	1.2%	5.3%	1.2%	5.3%

Power Loss (Any Cause) By Flag	46	25.6%	9.4%	46	25.6%
All Mechanical	24	13.3%	7.8%		

Year	By year		Year	Cherokee 140
	Cherokee 140	Overall		
1998	0	0	2008	16
1999	0	0	2009	10
2000	0	0	2010	15
2001	19	19	2011	0
2002	24	24	2012	
2003	18	18		
2004	16	16		
2005	20	20		
2006	20	20		
2007	22	22		

	Cherokee 140	Overall	Percentage of ALL accidents				
			(Percent of time Subevent was involved in Miscontrol)				
Landing Gear/Brakes	1.7%	1.7%	Miscontrol	23.9%	23.9%	Cherokee 140	23.9%
Other Mechanical	2.2%	2.2%	Winds	19.7%	19.7%	Cherokee 140	19.7%
Undetermined Loss of Power	7.2%	7.2%	Failure to maintain airspeed	0.0%	0.0%	Cherokee 140	0.0%
Fuel System	0.6%	0.6%	Other loss of control	0.0%	0.0%	Cherokee 140	0.0%
Engine Mechanical	3.9%	3.9%					
Builder/Manufacturer Error	0.0%	0.0%					
Maintenance Error	5.0%	5.0%					
Inadequate Preflight	1.1%	1.1%					
Carb Ice	2.2%	2.2%					
Maneuvering at low alt	3.3%	3.3%					
VFR to IFR	6.7%	6.7%					
Fuel Exhaustion/Starvation	10.6%	10.6%					
Pilot Miscontrol	39.4%	39.4%					

	Cherokee 140	Overall	Engine Types in Accident		Cherokee 140	Baseline
			Traditional	Foreign		
Total Pilot Error	63.3%	63.3%	100.0%	100.0%		
Total All Error	68.3%	68.3%				
Mechanical	20.6%	20.6%				
Other Mechanical	2.2%	2.2%				
Undetermined Loss of Power	7.2%	7.2%				
Fuel System	0.6%	0.6%				
Engine Mechanical	3.9%	3.9%				
Builder/Manufacturer Error	0.0%	0.0%				
Maintenance Error	5.0%	5.0%				
Pilot Error	63.3%	63.3%				

Hours	Cherokee 140	Overall	Cherokee 140	Overall	Cherokee 140	Overall	Cherokee 140	Overall	Cherokee 140	Overall	Time in Type	
											Cherokee 140	Overall
10	0	0	0	0	0	0	0	0	0	0	0.0%	10
20	0	0	0	0	0	0	0	0	0	0	0.0%	19
30	0	0	0	0	0	0	0	0	0	0	0.0%	26
40	0	0	0	0	0	0	0	0	0	0	0.0%	30
50	0	0	0	0	0	0	0	0	0	0	0.0%	38
60	0	0	0	0	0	0	0	0	0	0	0.0%	43
70	0	0	0	0	0	0	0	0	0	0	0.0%	48
80	0	0	0	0	0	0	0	0	0	0	0.0%	51
90	0	0	0	0	0	0	0	0	0	0	0.0%	53
100	0	0	0	0	0	0	0	0	0	0	0.0%	57
200	0	0	0	0	0	0	0	0	0	0	0.0%	77
300	0	0	0	0	0	0	0	0	0	0	0.0%	91
400	0	0	0	0	0	0	0	0	0	0	0.0%	95
500	1	0.7%	1	0.7%	1	0.7%	1	0.7%	1	0.7%	0.7%	108
600	1	0.7%	0	0.0%	1	0.7%	0	0.0%	1	0.7%	0.0%	116
700	1	0.7%	0	0.0%	1	0.7%	0	0.0%	1	0.7%	0.0%	118
800	2	1.5%	1	0.7%	2	1.5%	1	0.7%	2	1.5%	0.7%	118
900	2	1.5%	0	0.0%	2	1.5%	0	0.0%	2	1.5%	0.0%	120
1000	2	1.5%	0	0.0%	2	1.5%	0	0.0%	2	1.5%	0.0%	122

Overall
16
10
15
0

3
Average 140 Pe
7.9%
15.0%
20.5%
23.6%
29.9%
33.9%
37.8%
40.2%
41.7%
44.9%
60.6%
71.7%
74.8%
85.0%
91.3%
92.9%
94.5%
96.1%

Overall
9
6
12
0

³
* Percent
9.6%
14.9%
24.5%
30.9%
30.9%
35.1%
41.5%
42.6%
42.6%
47.9%
66.0%
76.6%
83.0%
87.2%
92.6%
92.6%
95.7%
95.7%
98.9%