

-- TLAR PERFORMANCE ACCURACY FOR A36 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
A36	IO-550B	false	285	2700	78	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
A36	3100	Stall clean KCAS	62.5	62.3	-0.2	0.997
A36	3100	Stall partial flaps KCAS	60.0	58.8	-1.2	0.980
A36	3100	Stall full flaps KCAS	58.0	58.0	0.0	1.000
A36	3100	Takeoff Ground Run (0 msl / 15 C)	800.0	840.0	40.0	0.950
A36	3100	Takeoff Ground Run (4000 msl / 7 C)	1150.0	1160.0	10.0	0.991
A36	3100	Takeoff Ground Run (8000 msl / -1 C)	1600.0	1640.0	40.0	0.975
A36	3100	Takeoff 50 (0 msl / 15 C)	1350.0	1490.0	140.0	0.896
A36	3100	Takeoff 50 (4000 msl / 7 C)	2050.0	2000.0	-50.0	0.976
A36	3100	Takeoff 50 (8000 msl / -1 C)	2900.0	2820.0	-80.0	0.972
A36	3100	Takeoff KCAS	68.5	66.5	-2.0	0.970
A36	3100	Vy FPM (0 msl / 15 C)	1330.0	1288.6	-41.4	0.969
A36	3100	Vy FPM (6000 msl / 3 C)	960.0	916.4	-43.6	0.955
A36	3100	Vy FPM (12000 msl / -10 C)	565.0	558.0	-7.0	0.988
A36	3100	Normal approach CAS (1.300 to 1)	75.5	75.4	-0.1	0.999
A36	3100	Land roll (0 msl / 15 C)	910.0	910.0	0.0	1.000
A36	3100	Land roll (4000 msl / 7 C)	1015.0	1020.0	5.0	0.995
A36	3100	Land roll (8000 msl / -3 C)	1150.0	1140.0	-10.0	0.991
A36	3600	Stall clean KCAS	65.0	65.0	0.0	1.000
A36	3600	Stall full flaps KCAS	55.5	55.5	0.0	1.000
A36	3600	Takeoff Ground Run (0 msl / 15 C)	1100.0	1240.0	140.0	0.873
A36	3600	Takeoff Ground Run (4000 msl / 7 C)	1550.0	1730.0	180.0	0.884
A36	3600	Takeoff Ground Run (8000 msl / -1 C)	2180.0	2580.0	400.0	0.817
A36	3600	Takeoff 50 (0 msl / 15 C)	2020.0	2130.0	110.0	0.946
A36	3600	Takeoff 50 (4000 msl / 7 C)	2850.0	2950.0	100.0	0.965
A36	3600	Takeoff 50 (8000 msl / -1 C)	4100.0	4370.0	270.0	0.934
A36	3600	Takeoff KCAS	71.5	71.6	0.1	0.998
A36	3600	Vy KCAS (0 msl / 15 C)	96.0	96.0	0.0	1.000
A36	3600	Vy KCAS (6000 msl / 3 C)	96.0	96.0	0.0	1.000
A36	3600	Vy KCAS (12000 msl / -10 C)	96.0	96.0	0.0	1.000
A36	3600	Vy FPM (0 msl / 15 C)	1030.0	979.5	-50.5	0.951
A36	3600	Vy FPM (6000 msl / 3 C)	685.0	647.9	-37.1	0.946
A36	3600	Vy FPM (12000 msl / -10 C)	350.0	325.2	-24.8	0.929
A36	3600	55% cruise KTAS (0 msl / Std Day)	138.0	130.0	-8.0	0.942
A36	3600	55% cruise KTAS (6000 msl / Std Day)	142.8	137.0	-5.8	0.959
A36	3600	55% cruise KTAS (10000 msl / Std Day)	134.0	142.0	8.0	0.940
A36	3600	65% cruise KTAS (0 msl / Std Day)	149.8	141.0	-8.8	0.941

A36	3600	65% cruise KTAS (6000 msl / Std Day)	156.0	149.0	-7.0	0.955
A36	3600	65% cruise KTAS (10000 msl / Std Day)	149.5	155.0	5.5	0.963
A36	3600	75% cruise KTAS (0 msl / Std Day)	159.2	150.0	-9.2	0.942
A36	3600	75% cruise KTAS (6000 msl / Std Day)	167.5	159.0	-8.5	0.949
A36	3600	55% cruise FF (0 msl / Std Day)	11.5	11.4	-0.1	0.991
A36	3600	55% cruise FF (6000 msl / Std Day)	11.5	11.4	-0.1	0.991
A36	3600	55% cruise FF (10000 msl / Std Day)	10.3	11.4	1.1	0.894
A36	3600	65% cruise FF (0 msl / Std Day)	13.3	13.4	0.1	0.991
A36	3600	65% cruise FF (6000 msl / Std Day)	13.3	13.4	0.1	0.991
A36	3600	65% cruise FF (10000 msl / Std Day)	11.5	13.4	1.9	0.833
A36	3600	75% cruise FF (0 msl / Std Day)	15.2	15.0	-0.2	0.988
A36	3600	75% cruise FF (6000 msl / Std Day)	15.2	15.0	-0.2	0.988
A36	3600	Normal approach CAS (1.300 to 1)	72.0	72.2	0.2	0.998
A36	3600	Land roll (0 msl / 15 C)	825.0	840.0	15.0	0.982
A36	3600	Land roll (4000 msl / 7 C)	940.0	940.0	0.0	1.000
A36	3600	Land roll (8000 msl / -3 C)	1060.0	1050.0	-10.0	0.991

-- TLAR PERFORMANCE ACCURACY FOR C150M -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
C150M	O-200	false	100	2750	69	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
C150M	1600	Stall clean KCAS	48.5	48.5	0.0	1.000
C150M	1600	Stall partial flaps KCAS	45.5	45.5	0.0	1.000
C150M	1600	Stall full flaps KCAS	42.0	42.0	-0.0	1.000
C150M	1600	Takeoff Ground Run (0 msl / 0 C)	655.0	740.0	85.0	0.870
C150M	1600	Takeoff Ground Run (0 msl / 20 C)	765.0	770.0	5.0	0.993
C150M	1600	Takeoff Ground Run (0 msl / 30 C)	820.0	820.0	0.0	1.000
C150M	1600	Takeoff Ground Run (3000 msl / 0 C)	870.0	880.0	10.0	0.989
C150M	1600	Takeoff Ground Run (3000 msl / 20 C)	1010.0	1010.0	0.0	1.000
C150M	1600	Takeoff Ground Run (3000 msl / 30 C)	1090.0	1090.0	0.0	1.000
C150M	1600	Takeoff Ground Run (6000 msl / 0 C)	1160.0	1190.0	30.0	0.974
C150M	1600	Takeoff Ground Run (6000 msl / 20 C)	1360.0	1370.0	10.0	0.993
C150M	1600	Takeoff Ground Run (6000 msl / 30 C)	1465.0	1480.0	15.0	0.990
C150M	1600	Takeoff 50 (0 msl / 0 C)	1245.0	1410.0	165.0	0.867
C150M	1600	Takeoff 50 (0 msl / 20 C)	1435.0	1460.0	25.0	0.983
C150M	1600	Takeoff 50 (0 msl / 30 C)	1540.0	1540.0	0.0	1.000
C150M	1600	Takeoff 50 (3000 msl / 0 C)	1650.0	1670.0	20.0	0.988
C150M	1600	Takeoff 50 (3000 msl / 20 C)	1915.0	1900.0	-15.0	0.992
C150M	1600	Takeoff 50 (3000 msl / 30 C)	2065.0	2030.0	-35.0	0.983
C150M	1600	Takeoff 50 (6000 msl / 0 C)	2245.0	2260.0	15.0	0.993
C150M	1600	Takeoff 50 (6000 msl / 20 C)	2640.0	2610.0	-30.0	0.989
C150M	1600	Takeoff 50 (6000 msl / 30 C)	2870.0	2810.0	-60.0	0.979
C150M	1600	Takeoff KCAS	53.0	52.6	-0.4	0.992
C150M	1600	Vx KCAS (0 msl / 0 C)	56.0	57.0	1.0	0.982
C150M	1600	Vy KCAS (0 msl / 40 C)	68.0	65.1	-2.9	0.957

C150M	1600	Vy KCAS (4000 msl / 20 C)	65.0	63.9	-1.1	0.983
C150M	1600	Vy KCAS (8000 msl / -20 C)	63.0	63.2	0.2	0.997
C150M	1600	Vy FPM (0 msl / -20 C)	770.0	741.0	-29.0	0.962
C150M	1600	Vy FPM (0 msl / 20 C)	655.0	655.5	0.5	0.999
C150M	1600	Vy FPM (0 msl / 40 C)	595.0	611.9	16.9	0.972
C150M	1600	Vy FPM (4000 msl / -20 C)	580.0	573.8	-6.2	0.989
C150M	1600	Vy FPM (4000 msl / 20 C)	465.0	482.3	17.3	0.963
C150M	1600	Vy FPM (4000 msl / 40 C)	405.0	440.3	35.3	0.913
C150M	1600	Vy FPM (8000 msl / -20 C)	390.0	402.0	12.0	0.969
C150M	1600	Vy FPM (8000 msl / 20 C)	280.0	313.9	33.9	0.879
C150M	1600	Vy FPM (8000 msl / 40 C)	215.0	272.9	57.9	0.731
C150M	1600	55% cruise KTAS (2000 msl / Std Day)	90.0	88.0	-2.0	0.978
C150M	1600	55% cruise KTAS (6000 msl / Std Day)	93.0	91.0	-2.0	0.978
C150M	1600	55% cruise KTAS (10000 msl / Std Day)	96.0	93.0	-3.0	0.969
C150M	1600	65% cruise KTAS (2000 msl / Std Day)	96.0	96.0	0.0	1.000
C150M	1600	65% cruise KTAS (6000 msl / Std Day)	99.0	99.0	0.0	1.000
C150M	1600	65% cruise KTAS (10000 msl / Std Day)	102.0	101.0	-1.0	0.990
C150M	1600	75% cruise KTAS (2000 msl / Std Day)	102.0	103.0	1.0	0.990
C150M	1600	75% cruise KTAS (6000 msl / Std Day)	105.5	104.0	-1.5	0.986
C150M	1600	55% cruise FF (2000 msl / Std Day)	4.2	4.3	0.1	0.982
C150M	1600	55% cruise FF (6000 msl / Std Day)	4.2	4.3	0.1	0.982
C150M	1600	55% cruise FF (10000 msl / Std Day)	4.2	4.3	0.1	0.982
C150M	1600	65% cruise FF (2000 msl / Std Day)	4.9	4.9	0.0	0.990
C150M	1600	65% cruise FF (6000 msl / Std Day)	4.9	4.9	0.0	0.990
C150M	1600	65% cruise FF (10000 msl / Std Day)	4.8	4.8	-0.1	0.985
C150M	1600	75% cruise FF (2000 msl / Std Day)	5.6	5.7	0.1	0.991
C150M	1600	75% cruise FF (6000 msl / Std Day)	5.6	5.4	-0.2	0.971
C150M	1600	Normal approach CAS (1.310 to 1)	52.0	55.0	3.0	0.942
C150M	1600	Land roll (0 msl / 0 C)	425.0	430.0	5.0	0.988
C150M	1600	Land roll (0 msl / 20 C)	455.0	460.0	5.0	0.989
C150M	1600	Land roll (0 msl / 40 C)	484.0	490.0	6.0	0.988
C150M	1600	Land roll (4000 msl / 0 C)	490.0	490.0	0.0	1.000
C150M	1600	Land roll (4000 msl / 20 C)	525.0	520.0	-5.0	0.990
C150M	1600	Land roll (4000 msl / 40 C)	560.0	560.0	0.0	1.000
C150M	1600	Land roll (8000 msl / 0 C)	570.0	560.0	-10.0	0.982
C150M	1600	Land roll (8000 msl / 20 C)	610.0	600.0	-10.0	0.984
C150M	1600	Land roll (8000 msl / 40 C)	655.0	640.0	-15.0	0.977

-- TLAR PERFORMANCE ACCURACY FOR C152 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
C152	O-235	false	110	2550	69	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
C152	1670	Stall clean KCAS	47.0	47.0	-0.0	1.000
C152	1670	Stall partial flaps KCAS	44.5	44.5	0.0	1.000
C152	1670	Stall full flaps KCAS	42.0	42.0	-0.0	1.000

C152	1670	Takeoff Ground Run (0 msl / 0 C)	640.0	730.0	90.0	0.859
C152	1670	Takeoff Ground Run (0 msl / 20 C)	755.0	750.0	-5.0	0.993
C152	1670	Takeoff Ground Run (0 msl / 30 C)	810.0	800.0	-10.0	0.988
C152	1670	Takeoff Ground Run (3000 msl / 0 C)	855.0	870.0	15.0	0.982
C152	1670	Takeoff Ground Run (3000 msl / 20 C)	1000.0	980.0	-20.0	0.980
C152	1670	Takeoff Ground Run (3000 msl / 30 C)	1080.0	1050.0	-30.0	0.972
C152	1670	Takeoff Ground Run (6000 msl / 0 C)	1145.0	1160.0	15.0	0.987
C152	1670	Takeoff Ground Run (6000 msl / 20 C)	1345.0	1330.0	-15.0	0.989
C152	1670	Takeoff Ground Run (6000 msl / 30 C)	1455.0	1430.0	-25.0	0.983
C152	1670	Takeoff 50 (0 msl / 0 C)	1190.0	1410.0	220.0	0.815
C152	1670	Takeoff 50 (0 msl / 20 C)	1390.0	1440.0	50.0	0.964
C152	1670	Takeoff 50 (0 msl / 30 C)	1495.0	1530.0	35.0	0.977
C152	1670	Takeoff 50 (3000 msl / 0 C)	1600.0	1660.0	60.0	0.963
C152	1670	Takeoff 50 (3000 msl / 20 C)	1870.0	1860.0	-10.0	0.995
C152	1670	Takeoff 50 (3000 msl / 30 C)	2020.0	1980.0	-40.0	0.980
C152	1670	Takeoff 50 (6000 msl / 0 C)	2200.0	2210.0	10.0	0.995
C152	1670	Takeoff 50 (6000 msl / 20 C)	2610.0	2520.0	-90.0	0.966
C152	1670	Takeoff 50 (6000 msl / 30 C)	2855.0	2700.0	-155.0	0.946
C152	1670	Takeoff KCAS	52.0	54.3	2.3	0.955
C152	1670	Vx KCAS (0 msl / 0 C)	55.5	55.0	-0.5	0.991
C152	1670	Vy KCAS (0 msl / 40 C)	67.0	65.1	-1.9	0.971
C152	1670	Vy KCAS (4000 msl / 20 C)	65.0	63.0	-2.0	0.969
C152	1670	Vy KCAS (8000 msl / -20 C)	62.0	61.5	-0.5	0.992
C152	1670	Vy FPM (0 msl / -20 C)	835.0	806.4	-28.6	0.966
C152	1670	Vy FPM (0 msl / 20 C)	700.0	707.5	7.5	0.989
C152	1670	Vy FPM (0 msl / 40 C)	630.0	658.7	28.7	0.954
C152	1670	Vy FPM (4000 msl / -20 C)	635.0	614.0	-21.0	0.967
C152	1670	Vy FPM (4000 msl / 20 C)	505.0	527.0	22.0	0.956
C152	1670	Vy FPM (4000 msl / 40 C)	445.0	481.1	36.1	0.919
C152	1670	Vy FPM (8000 msl / -20 C)	440.0	450.1	10.1	0.977
C152	1670	Vy FPM (8000 msl / 20 C)	320.0	360.8	40.8	0.873
C152	1670	Vy FPM (8000 msl / 40 C)	265.0	309.1	44.1	0.834
C152	1670	55% cruise KTAS (2000 msl / Std Day)	88.0	86.0	-2.0	0.977
C152	1670	55% cruise KTAS (6000 msl / Std Day)	90.0	89.0	-1.0	0.989
C152	1670	55% cruise KTAS (10000 msl / Std Day)	92.0	91.0	-1.0	0.989
C152	1670	65% cruise KTAS (2000 msl / Std Day)	95.0	94.0	-1.0	0.989
C152	1670	65% cruise KTAS (6000 msl / Std Day)	98.0	97.0	-1.0	0.990
C152	1670	65% cruise KTAS (10000 msl / Std Day)	101.0	101.0	-0.0	1.000
C152	1670	75% cruise KTAS (2000 msl / Std Day)	101.0	100.0	-1.0	0.990
C152	1670	75% cruise KTAS (6000 msl / Std Day)	105.0	103.0	-2.0	0.981
C152	1670	55% cruise FF (2000 msl / Std Day)	4.5	4.5	-0.0	0.994
C152	1670	55% cruise FF (6000 msl / Std Day)	4.5	4.5	-0.0	0.994
C152	1670	55% cruise FF (10000 msl / Std Day)	4.4	4.5	0.1	0.983
C152	1670	65% cruise FF (2000 msl / Std Day)	5.3	5.2	-0.1	0.987
C152	1670	65% cruise FF (6000 msl / Std Day)	5.3	5.2	-0.1	0.987
C152	1670	65% cruise FF (10000 msl / Std Day)	5.3	5.2	-0.1	0.987
C152	1670	75% cruise FF (2000 msl / Std Day)	6.1	6.0	-0.1	0.985
C152	1670	75% cruise FF (6000 msl / Std Day)	6.1	6.0	-0.1	0.985
C152	1670	Normal approach CAS (1.310 to 1)	55.0	55.0	0.0	1.000

C152	1670	Land roll (0 msl / 0 C)	450.0	450.0	0.0	1.000
C152	1670	Land roll (0 msl / 20 C)	485.0	480.0	-5.0	0.990
C152	1670	Land roll (0 msl / 40 C)	515.0	510.0	-5.0	0.990
C152	1670	Land roll (4000 msl / 0 C)	520.0	510.0	-10.0	0.981
C152	1670	Land roll (4000 msl / 20 C)	560.0	540.0	-20.0	0.964
C152	1670	Land roll (4000 msl / 40 C)	580.0	580.0	0.0	1.000
C152	1670	Land roll (8000 msl / 0 C)	605.0	590.0	-15.0	0.975
C152	1670	Land roll (8000 msl / 20 C)	650.0	630.0	-20.0	0.969
C152	1670	Land roll (8000 msl / 40 C)	675.0	670.0	-5.0	0.993

-- TLAR PERFORMANCE ACCURACY FOR C170B -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
C170B	O-300A	false	145	2700	75	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
C170B	2200	Stall clean KCAS	50.4	50.4	0.0	1.000
C170B	2200	Stall partial flaps KCAS	46.9	46.9	0.0	1.000
C170B	2200	Stall full flaps KCAS	45.2	45.2	-0.0	1.000
C170B	2200	Takeoff Ground Run (0 msl / -7 C)	513.0	630.0	117.0	0.772
C170B	2200	Takeoff Ground Run (0 msl / 16 C)	618.0	630.0	12.0	0.981
C170B	2200	Takeoff Ground Run (0 msl / 38 C)	758.0	740.0	-18.0	0.976
C170B	2200	Takeoff Ground Run (4000 msl / -7 C)	802.0	810.0	8.0	0.990
C170B	2200	Takeoff Ground Run (4000 msl / 16 C)	980.0	950.0	-30.0	0.969
C170B	2200	Takeoff Ground Run (4000 msl / 38 C)	1193.0	1250.0	57.0	0.952
C170B	2200	Takeoff Ground Run (7000 msl / -7 C)	1178.0	1240.0	62.0	0.947
C170B	2200	Takeoff Ground Run (7000 msl / 16 C)	1419.0	1500.0	81.0	0.943
C170B	2200	Takeoff Ground Run (7000 msl / 38 C)	1693.0	1820.0	127.0	0.925
C170B	2200	Takeoff 50 (0 msl / -7 C)	1350.0	1760.0	410.0	0.696
C170B	2200	Takeoff 50 (0 msl / 16 C)	1625.0	1770.0	145.0	0.911
C170B	2200	Takeoff 50 (0 msl / 38 C)	1995.0	1990.0	-5.0	0.997
C170B	2200	Takeoff 50 (4000 msl / -7 C)	2110.0	2220.0	110.0	0.948
C170B	2200	Takeoff 50 (4000 msl / 16 C)	2580.0	2560.0	-20.0	0.992
C170B	2200	Takeoff 50 (4000 msl / 38 C)	3140.0	3090.0	-50.0	0.984
C170B	2200	Takeoff 50 (7000 msl / -7 C)	3100.0	3180.0	80.0	0.974
C170B	2200	Takeoff 50 (7000 msl / 16 C)	3735.0	3740.0	5.0	0.999
C170B	2200	Takeoff 50 (7000 msl / 38 C)	4455.0	4450.0	-5.0	0.999
C170B	2200	Takeoff KCAS	50.0	48.7	-1.3	0.974
C170B	2200	Vx KCAS (0 msl / -7 C)	58.0	56.0	-2.0	0.966
C170B	2200	Vy KCAS (0 msl / 38 C)	77.3	72.1	-5.3	0.932
C170B	2200	Vy KCAS (4000 msl / 16 C)	73.0	71.3	-1.7	0.977
C170B	2200	Vy KCAS (7000 msl / -7 C)	68.6	69.8	1.1	0.984
C170B	2200	Vy FPM (0 msl / -7 C)	740.0	713.3	-26.7	0.964
C170B	2200	Vy FPM (0 msl / 16 C)	690.0	663.6	-26.4	0.962
C170B	2200	Vy FPM (0 msl / 38 C)	645.0	618.0	-27.0	0.958
C170B	2200	Vy FPM (4000 msl / -7 C)	555.0	541.4	-13.6	0.976
C170B	2200	Vy FPM (4000 msl / 16 C)	510.0	494.3	-15.7	0.969

C170B	2200	Vy FPM (4000 msl / 38 C)	465.0	450.1	-14.9	0.968
C170B	2200	Vy FPM (7000 msl / -7 C)	420.0	415.6	-4.4	0.990
C170B	2200	Vy FPM (7000 msl / 16 C)	370.0	369.8	-0.2	0.999
C170B	2200	Vy FPM (7000 msl / 38 C)	325.0	326.5	1.5	0.995
C170B	2200	55% cruise KTAS (2500 msl / Std Day)	97.3	96.0	-1.3	0.986
C170B	2200	55% cruise KTAS (5000 msl / Std Day)	98.2	98.0	-0.2	0.998
C170B	2200	55% cruise KTAS (7500 msl / Std Day)	99.9	101.0	1.1	0.989
C170B	2200	65% cruise KTAS (2500 msl / Std Day)	104.3	106.0	1.7	0.983
C170B	2200	65% cruise KTAS (5000 msl / Std Day)	106.9	107.0	0.1	0.999
C170B	2200	65% cruise KTAS (7500 msl / Std Day)	108.6	109.0	0.4	0.997
C170B	2200	75% cruise KTAS (2500 msl / Std Day)	109.5	111.0	1.5	0.986
C170B	2200	75% cruise KTAS (5000 msl / Std Day)	113.8	112.0	-1.8	0.984
C170B	2200	55% cruise FF (2500 msl / Std Day)	7.0	7.0	-0.0	0.999
C170B	2200	55% cruise FF (5000 msl / Std Day)	7.0	7.0	-0.0	0.999
C170B	2200	55% cruise FF (7500 msl / Std Day)	7.0	7.0	-0.0	0.999
C170B	2200	65% cruise FF (2500 msl / Std Day)	8.3	8.3	-0.0	0.999
C170B	2200	65% cruise FF (5000 msl / Std Day)	8.2	8.3	0.1	0.988
C170B	2200	65% cruise FF (7500 msl / Std Day)	8.2	8.3	0.1	0.988
C170B	2200	75% cruise FF (2500 msl / Std Day)	9.6	9.6	0.0	1.000
C170B	2200	75% cruise FF (5000 msl / Std Day)	9.6	9.3	-0.3	0.972
C170B	2200	Normal approach CAS (1.288 to 1)	58.2	58.2	-0.0	1.000
C170B	2200	Land roll (0 msl / -7 C)	428.0	430.0	2.0	0.995
C170B	2200	Land roll (0 msl / 16 C)	458.0	460.0	2.0	0.996
C170B	2200	Land roll (0 msl / 38 C)	486.0	490.0	4.0	0.992
C170B	2200	Land roll (4000 msl / -7 C)	482.0	490.0	8.0	0.983
C170B	2200	Land roll (4000 msl / 16 C)	512.0	520.0	8.0	0.984
C170B	2200	Land roll (4000 msl / 38 C)	540.0	560.0	20.0	0.963
C170B	2200	Land roll (7000 msl / -7 C)	522.0	540.0	18.0	0.966
C170B	2200	Land roll (7000 msl / 16 C)	552.0	580.0	28.0	0.949
C170B	2200	Land roll (7000 msl / 38 C)	580.0	630.0	50.0	0.914

-- TLAR PERFORMANCE ACCURACY FOR C172M -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
C172M	O-320	false	150	2700	75	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
C172M	1900	Takeoff Ground Run (0 msl / 0 C)	505.0	500.0	-5.0	0.990
C172M	1900	Takeoff Ground Run (0 msl / 20 C)	580.0	550.0	-30.0	0.948
C172M	1900	Takeoff Ground Run (0 msl / 30 C)	620.0	590.0	-30.0	0.952
C172M	1900	Takeoff Ground Run (3000 msl / 0 C)	660.0	630.0	-30.0	0.955
C172M	1900	Takeoff Ground Run (3000 msl / 20 C)	760.0	720.0	-40.0	0.947
C172M	1900	Takeoff Ground Run (3000 msl / 30 C)	815.0	770.0	-45.0	0.945
C172M	1900	Takeoff Ground Run (6000 msl / 0 C)	870.0	840.0	-30.0	0.966
C172M	1900	Takeoff Ground Run (6000 msl / 20 C)	1010.0	950.0	-60.0	0.941
C172M	1900	Takeoff Ground Run (6000 msl / 30 C)	1080.0	1020.0	-60.0	0.944
C172M	1900	Takeoff 50 (0 msl / 0 C)	915.0	950.0	35.0	0.962
C172M	1900	Takeoff 50 (0 msl / 20 C)	1035.0	1040.0	5.0	0.995
C172M	1900	Takeoff 50 (0 msl / 30 C)	1105.0	1100.0	-5.0	0.995

C172M	1900	Takeoff 50 (3000 msl / 0 C)	1180.0	1180.0	0.0	1.000
C172M	1900	Takeoff 50 (3000 msl / 20 C)	1345.0	1320.0	-25.0	0.981
C172M	1900	Takeoff 50 (3000 msl / 30 C)	1435.0	1390.0	-45.0	0.969
C172M	1900	Takeoff 50 (6000 msl / 0 C)	1555.0	1540.0	-15.0	0.990
C172M	1900	Takeoff 50 (6000 msl / 20 C)	1785.0	1720.0	-65.0	0.964
C172M	1900	Takeoff 50 (6000 msl / 30 C)	1910.0	1830.0	-80.0	0.958
C172M	1900	Takeoff KCAS	53.0	51.8	-1.2	0.978
C172M	2100	Takeoff Ground Run (0 msl / 0 C)	630.0	620.0	-10.0	0.984
C172M	2100	Takeoff Ground Run (0 msl / 20 C)	725.0	700.0	-25.0	0.966
C172M	2100	Takeoff Ground Run (0 msl / 30 C)	780.0	750.0	-30.0	0.962
C172M	2100	Takeoff Ground Run (3000 msl / 0 C)	830.0	800.0	-30.0	0.964
C172M	2100	Takeoff Ground Run (3000 msl / 20 C)	955.0	920.0	-35.0	0.963
C172M	2100	Takeoff Ground Run (3000 msl / 30 C)	1025.0	990.0	-35.0	0.966
C172M	2100	Takeoff Ground Run (6000 msl / 0 C)	1100.0	1080.0	-20.0	0.982
C172M	2100	Takeoff Ground Run (6000 msl / 20 C)	1275.0	1250.0	-25.0	0.980
C172M	2100	Takeoff Ground Run (6000 msl / 30 C)	1370.0	1360.0	-10.0	0.993
C172M	2100	Takeoff 50 (0 msl / 0 C)	1130.0	1160.0	30.0	0.973
C172M	2100	Takeoff 50 (0 msl / 20 C)	1290.0	1290.0	0.0	1.000
C172M	2100	Takeoff 50 (0 msl / 30 C)	1375.0	1370.0	-5.0	0.996
C172M	2100	Takeoff 50 (3000 msl / 0 C)	1475.0	1470.0	-5.0	0.997
C172M	2100	Takeoff 50 (3000 msl / 20 C)	1690.0	1670.0	-20.0	0.988
C172M	2100	Takeoff 50 (3000 msl / 30 C)	1805.0	1770.0	-35.0	0.981
C172M	2100	Takeoff 50 (6000 msl / 0 C)	1965.0	1960.0	-5.0	0.997
C172M	2100	Takeoff 50 (6000 msl / 20 C)	2270.0	2230.0	-40.0	0.982
C172M	2100	Takeoff 50 (6000 msl / 30 C)	2435.0	2400.0	-35.0	0.986
C172M	2100	Takeoff KCAS	55.0	54.5	-0.5	0.991
C172M	2300	Stall clean KCAS	51.5	51.5	-0.0	1.000
C172M	2300	Stall partial flaps KCAS	49.0	49.0	0.0	1.000
C172M	2300	Stall full flaps KCAS	45.5	45.5	-0.0	1.000
C172M	2300	Takeoff Ground Run (0 msl / 0 C)	775.0	860.0	85.0	0.890
C172M	2300	Takeoff Ground Run (0 msl / 20 C)	895.0	880.0	-15.0	0.983
C172M	2300	Takeoff Ground Run (0 msl / 30 C)	960.0	940.0	-20.0	0.979
C172M	2300	Takeoff Ground Run (3000 msl / 0 C)	1020.0	1020.0	0.0	1.000
C172M	2300	Takeoff Ground Run (3000 msl / 20 C)	1180.0	1180.0	0.0	1.000
C172M	2300	Takeoff Ground Run (3000 msl / 30 C)	1270.0	1270.0	0.0	1.000
C172M	2300	Takeoff Ground Run (6000 msl / 0 C)	1365.0	1400.0	35.0	0.974
C172M	2300	Takeoff Ground Run (6000 msl / 20 C)	1580.0	1630.0	50.0	0.968
C172M	2300	Takeoff Ground Run (6000 msl / 30 C)	1700.0	1780.0	80.0	0.953
C172M	2300	Takeoff 50 (0 msl / 0 C)	1380.0	1560.0	180.0	0.870
C172M	2300	Takeoff 50 (0 msl / 20 C)	1575.0	1590.0	15.0	0.990
C172M	2300	Takeoff 50 (0 msl / 30 C)	1685.0	1690.0	5.0	0.997
C172M	2300	Takeoff 50 (3000 msl / 0 C)	1815.0	1840.0	25.0	0.986
C172M	2300	Takeoff 50 (3000 msl / 20 C)	2085.0	2090.0	5.0	0.998
C172M	2300	Takeoff 50 (3000 msl / 30 C)	2235.0	2230.0	-5.0	0.998
C172M	2300	Takeoff 50 (6000 msl / 0 C)	2450.0	2480.0	30.0	0.988
C172M	2300	Takeoff 50 (6000 msl / 20 C)	2850.0	2860.0	10.0	0.996
C172M	2300	Takeoff 50 (6000 msl / 30 C)	3070.0	3100.0	30.0	0.990

C172M	2300	Takeoff KCAS	57.0	57.0	0.0	0.999
C172M	2300	Vx KCAS (0 msl / 0 C)	61.0	61.0	0.0	1.000
C172M	2300	Vy KCAS (0 msl / 40 C)	78.0	78.5	0.5	0.994
C172M	2300	Vy KCAS (4000 msl / 20 C)	74.0	75.4	1.4	0.981
C172M	2300	Vy KCAS (8000 msl / -20 C)	70.0	73.0	3.0	0.957
C172M	2300	Vy FPM (0 msl / -20 C)	755.0	702.7	-52.3	0.931
C172M	2300	Vy FPM (0 msl / 20 C)	630.0	625.5	-4.5	0.993
C172M	2300	Vy FPM (0 msl / 40 C)	565.0	585.7	20.7	0.963
C172M	2300	Vy FPM (4000 msl / -20 C)	555.0	543.5	-11.5	0.979
C172M	2300	Vy FPM (4000 msl / 20 C)	440.0	459.1	19.1	0.957
C172M	2300	Vy FPM (4000 msl / 40 C)	380.0	421.1	41.1	0.892
C172M	2300	Vy FPM (8000 msl / -20 C)	365.0	379.3	14.3	0.961
C172M	2300	Vy FPM (8000 msl / 20 C)	255.0	298.9	43.9	0.828
C172M	2300	Vy FPM (8000 msl / 40 C)	200.0	261.7	61.7	0.691
C172M	2300	55% cruise KTAS (2000 msl / Std Day)	98.0	98.0	0.0	1.000
C172M	2300	55% cruise KTAS (6000 msl / Std Day)	100.0	102.0	2.0	0.980
C172M	2300	55% cruise KTAS (10000 msl / Std Day)	103.5	106.0	2.5	0.976
C172M	2300	65% cruise KTAS (2000 msl / Std Day)	108.0	108.0	0.0	1.000
C172M	2300	65% cruise KTAS (6000 msl / Std Day)	110.0	111.0	1.0	0.991
C172M	2300	65% cruise KTAS (10000 msl / Std Day)	114.0	112.0	-2.0	0.982
C172M	2300	75% cruise KTAS (2000 msl / Std Day)	113.0	114.0	1.0	0.991
C172M	2300	75% cruise KTAS (6000 msl / Std Day)	118.0	116.0	-2.0	0.983
C172M	2300	55% cruise FF (2000 msl / Std Day)	6.5	6.3	-0.2	0.977
C172M	2300	55% cruise FF (6000 msl / Std Day)	6.4	6.3	-0.1	0.984
C172M	2300	55% cruise FF (10000 msl / Std Day)	6.5	6.3	-0.2	0.969
C172M	2300	65% cruise FF (2000 msl / Std Day)	7.3	7.3	0.0	0.999
C172M	2300	65% cruise FF (6000 msl / Std Day)	7.2	7.3	0.1	0.985
C172M	2300	65% cruise FF (10000 msl / Std Day)	7.3	7.0	-0.3	0.960
C172M	2300	75% cruise FF (2000 msl / Std Day)	8.2	8.4	0.2	0.976
C172M	2300	75% cruise FF (6000 msl / Std Day)	8.2	8.1	-0.1	0.984
C172M	2300	Normal approach CAS (1.363 to 1)	62.0	62.0	-0.0	1.000
C172M	2300	Land roll (0 msl / 0 C)	495.0	500.0	5.0	0.990
C172M	2300	Land roll (0 msl / 20 C)	530.0	530.0	0.0	1.000
C172M	2300	Land roll (0 msl / 40 C)	565.0	570.0	5.0	0.991
C172M	2300	Land roll (4000 msl / 0 C)	570.0	570.0	0.0	1.000
C172M	2300	Land roll (4000 msl / 20 C)	615.0	610.0	-5.0	0.992
C172M	2300	Land roll (4000 msl / 40 C)	655.0	650.0	-5.0	0.992
C172M	2300	Land roll (8000 msl / 0 C)	665.0	660.0	-5.0	0.992
C172M	2300	Land roll (8000 msl / 20 C)	710.0	700.0	-10.0	0.986
C172M	2300	Land roll (8000 msl / 40 C)	760.0	750.0	-10.0	0.987

-- TLAR PERFORMANCE ACCURACY FOR C172N -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
C172N	O-320h2ad	false	160	2700	75	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
C172N	1900	Takeoff Ground Run (0 msl / 0 C)	470.0	460.0	-10.0	0.979
C172N	1900	Takeoff Ground Run (0 msl / 20 C)	540.0	520.0	-20.0	0.963

C172N	1900	Takeoff Ground Run (0 msl / 30 C)	580.0	550.0	-30.0	0.948
C172N	1900	Takeoff Ground Run (3000 msl / 0 C)	615.0	590.0	-25.0	0.959
C172N	1900	Takeoff Ground Run (3000 msl / 20 C)	710.0	670.0	-40.0	0.944
C172N	1900	Takeoff Ground Run (3000 msl / 30 C)	760.0	710.0	-50.0	0.934
C172N	1900	Takeoff Ground Run (6000 msl / 0 C)	810.0	760.0	-50.0	0.938
C172N	1900	Takeoff Ground Run (6000 msl / 20 C)	940.0	880.0	-60.0	0.936
C172N	1900	Takeoff Ground Run (6000 msl / 30 C)	1010.0	940.0	-70.0	0.931
C172N	1900	Takeoff 50 (0 msl / 0 C)	865.0	920.0	55.0	0.936
C172N	1900	Takeoff 50 (0 msl / 20 C)	985.0	1020.0	35.0	0.964
C172N	1900	Takeoff 50 (0 msl / 30 C)	1045.0	1070.0	25.0	0.976
C172N	1900	Takeoff 50 (3000 msl / 0 C)	1115.0	1140.0	25.0	0.978
C172N	1900	Takeoff 50 (3000 msl / 20 C)	1275.0	1270.0	-5.0	0.996
C172N	1900	Takeoff 50 (3000 msl / 30 C)	1365.0	1340.0	-25.0	0.982
C172N	1900	Takeoff 50 (6000 msl / 0 C)	1470.0	1450.0	-20.0	0.986
C172N	1900	Takeoff 50 (6000 msl / 20 C)	1690.0	1640.0	-50.0	0.970
C172N	1900	Takeoff 50 (6000 msl / 30 C)	1810.0	1730.0	-80.0	0.956
C172N	1900	Takeoff KCAS	53.0	51.8	-1.2	0.978
C172N	2100	Takeoff Ground Run (0 msl / 0 C)	585.0	570.0	-15.0	0.974
C172N	2100	Takeoff Ground Run (0 msl / 20 C)	680.0	650.0	-30.0	0.956
C172N	2100	Takeoff Ground Run (0 msl / 30 C)	725.0	690.0	-35.0	0.952
C172N	2100	Takeoff Ground Run (3000 msl / 0 C)	770.0	750.0	-20.0	0.974
C172N	2100	Takeoff Ground Run (3000 msl / 20 C)	890.0	850.0	-40.0	0.955
C172N	2100	Takeoff Ground Run (3000 msl / 30 C)	955.0	910.0	-45.0	0.953
C172N	2100	Takeoff Ground Run (6000 msl / 0 C)	1025.0	980.0	-45.0	0.956
C172N	2100	Takeoff Ground Run (6000 msl / 20 C)	1185.0	1140.0	-45.0	0.962
C172N	2100	Takeoff Ground Run (6000 msl / 30 C)	1275.0	1230.0	-45.0	0.965
C172N	2100	Takeoff 50 (0 msl / 0 C)	1070.0	1120.0	50.0	0.953
C172N	2100	Takeoff 50 (0 msl / 20 C)	1220.0	1240.0	20.0	0.984
C172N	2100	Takeoff 50 (0 msl / 30 C)	1300.0	1310.0	10.0	0.992
C172N	2100	Takeoff 50 (3000 msl / 0 C)	1390.0	1420.0	30.0	0.978
C172N	2100	Takeoff 50 (3000 msl / 20 C)	1595.0	1590.0	-5.0	0.997
C172N	2100	Takeoff 50 (3000 msl / 30 C)	1710.0	1690.0	-20.0	0.988
C172N	2100	Takeoff 50 (6000 msl / 0 C)	1850.0	1850.0	0.0	1.000
C172N	2100	Takeoff 50 (6000 msl / 20 C)	2140.0	2100.0	-40.0	0.981
C172N	2100	Takeoff 50 (6000 msl / 30 C)	2300.0	2240.0	-60.0	0.974
C172N	2100	Takeoff KCAS	55.0	54.5	-0.5	0.991
C172N	2300	Stall clean KCAS	51.5	51.5	-0.0	1.000
C172N	2300	Stall partial flaps KCAS	49.0	49.0	0.0	1.000
C172N	2300	Stall full flaps KCAS	45.5	45.5	-0.0	1.000
C172N	2300	Takeoff Ground Run (0 msl / 0 C)	720.0	790.0	70.0	0.903
C172N	2300	Takeoff Ground Run (0 msl / 20 C)	835.0	820.0	-15.0	0.982
C172N	2300	Takeoff Ground Run (0 msl / 30 C)	895.0	870.0	-25.0	0.972
C172N	2300	Takeoff Ground Run (3000 msl / 0 C)	950.0	940.0	-10.0	0.989
C172N	2300	Takeoff Ground Run (3000 msl / 20 C)	1100.0	1080.0	-20.0	0.982
C172N	2300	Takeoff Ground Run (3000 msl / 30 C)	1185.0	1150.0	-35.0	0.970
C172N	2300	Takeoff Ground Run (6000 msl / 0 C)	1265.0	1260.0	-5.0	0.996
C172N	2300	Takeoff Ground Run (6000 msl / 20 C)	1475.0	1470.0	-5.0	0.997

C172N	2300	Takeoff Ground Run (6000 msl / 30 C)	1585.0	1600.0	15.0	0.991
C172N	2300	Takeoff 50 (0 msl / 0 C)	1300.0	1480.0	180.0	0.862
C172N	2300	Takeoff 50 (0 msl / 20 C)	1490.0	1520.0	30.0	0.980
C172N	2300	Takeoff 50 (0 msl / 30 C)	1590.0	1610.0	20.0	0.987
C172N	2300	Takeoff 50 (3000 msl / 0 C)	1710.0	1760.0	50.0	0.971
C172N	2300	Takeoff 50 (3000 msl / 20 C)	1970.0	1980.0	10.0	0.995
C172N	2300	Takeoff 50 (3000 msl / 30 C)	2115.0	2090.0	-25.0	0.988
C172N	2300	Takeoff 50 (6000 msl / 0 C)	2305.0	2320.0	15.0	0.993
C172N	2300	Takeoff 50 (6000 msl / 20 C)	2680.0	2650.0	-30.0	0.989
C172N	2300	Takeoff 50 (6000 msl / 30 C)	2895.0	2870.0	-25.0	0.991
C172N	2300	Takeoff KCAS	57.0	57.0	0.0	0.999
C172N	2300	Vx KCAS (0 msl / 0 C)	61.0	59.0	-2.0	0.967
C172N	2300	Vy KCAS (0 msl / 40 C)	73.0	78.5	5.5	0.925
C172N	2300	Vy KCAS (4000 msl / 20 C)	71.0	76.3	5.3	0.925
C172N	2300	Vy KCAS (8000 msl / -20 C)	69.0	73.8	4.8	0.930
C172N	2300	Vy FPM (0 msl / -20 C)	875.0	786.6	-88.4	0.899
C172N	2300	Vy FPM (0 msl / 20 C)	755.0	706.3	-48.7	0.935
C172N	2300	Vy FPM (0 msl / 40 C)	695.0	665.0	-30.0	0.957
C172N	2300	Vy FPM (4000 msl / -20 C)	655.0	618.4	-36.6	0.944
C172N	2300	Vy FPM (4000 msl / 20 C)	545.0	530.6	-14.4	0.974
C172N	2300	Vy FPM (4000 msl / 40 C)	485.0	490.7	5.7	0.988
C172N	2300	Vy FPM (8000 msl / -20 C)	440.0	444.4	4.4	0.990
C172N	2300	Vy FPM (8000 msl / 20 C)	335.0	361.5	26.5	0.921
C172N	2300	Vy FPM (8000 msl / 40 C)	280.0	322.9	42.9	0.847
C172N	2300	55% cruise KTAS (2000 msl / Std Day)	101.0	102.0	1.0	0.990
C172N	2300	55% cruise KTAS (6000 msl / Std Day)	105.0	107.0	2.0	0.981
C172N	2300	55% cruise KTAS (10000 msl / Std Day)	108.0	110.0	2.0	0.981
C172N	2300	65% cruise KTAS (2000 msl / Std Day)	109.0	111.0	2.0	0.982
C172N	2300	65% cruise KTAS (6000 msl / Std Day)	113.0	114.0	1.0	0.991
C172N	2300	65% cruise KTAS (10000 msl / Std Day)	116.0	115.0	-1.0	0.991
C172N	2300	75% cruise KTAS (2000 msl / Std Day)	116.0	117.0	1.0	0.991
C172N	2300	75% cruise KTAS (6000 msl / Std Day)	120.0	118.0	-2.0	0.983
C172N	2300	55% cruise FF (2000 msl / Std Day)	6.2	6.5	0.3	0.957
C172N	2300	55% cruise FF (6000 msl / Std Day)	6.4	6.5	0.1	0.989
C172N	2300	55% cruise FF (10000 msl / Std Day)	6.2	6.5	0.3	0.957
C172N	2300	65% cruise FF (2000 msl / Std Day)	7.3	7.1	-0.2	0.975
C172N	2300	65% cruise FF (6000 msl / Std Day)	7.3	7.1	-0.2	0.975
C172N	2300	65% cruise FF (10000 msl / Std Day)	7.2	6.9	-0.3	0.962
C172N	2300	75% cruise FF (2000 msl / Std Day)	8.4	8.9	0.5	0.940
C172N	2300	75% cruise FF (6000 msl / Std Day)	8.4	8.4	-0.0	0.995
C172N	2300	Normal approach CAS (1.363 to 1)	62.0	62.0	-0.0	1.000
C172N	2300	Land roll (0 msl / 0 C)	495.0	500.0	5.0	0.990
C172N	2300	Land roll (0 msl / 20 C)	530.0	530.0	0.0	1.000
C172N	2300	Land roll (0 msl / 40 C)	565.0	570.0	5.0	0.991
C172N	2300	Land roll (4000 msl / 0 C)	570.0	570.0	0.0	1.000
C172N	2300	Land roll (4000 msl / 20 C)	615.0	610.0	-5.0	0.992
C172N	2300	Land roll (4000 msl / 40 C)	655.0	650.0	-5.0	0.992
C172N	2300	Land roll (8000 msl / 0 C)	665.0	660.0	-5.0	0.992
C172N	2300	Land roll (8000 msl / 20 C)	710.0	700.0	-10.0	0.986

C172N	2300	Land roll (8000 msl / 40 C)	760.0	750.0	-10.0	0.987
-------	------	-----------------------------	-------	-------	-------	-------

-- TLAR PERFORMANCE ACCURACY FOR C172S -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter
C172S	IO-360L2A	false	180	2700	76

Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
C172S	2200	Takeoff Ground Run (0 msl / 0 C)	610.0	620.0	10.0	0.984
C172S	2200	Takeoff Ground Run (0 msl / 20 C)	705.0	700.0	-5.0	0.993
C172S	2200	Takeoff Ground Run (0 msl / 30 C)	760.0	750.0	-10.0	0.987
C172S	2200	Takeoff Ground Run (4000 msl / 0 C)	870.0	880.0	10.0	0.989
C172S	2200	Takeoff Ground Run (4000 msl / 20 C)	1010.0	1000.0	-10.0	0.990
C172S	2200	Takeoff Ground Run (4000 msl / 30 C)	1090.0	1070.0	-20.0	0.982
C172S	2200	Takeoff Ground Run (8000 msl / 0 C)	1270.0	1300.0	30.0	0.976
C172S	2200	Takeoff Ground Run (8000 msl / 20 C)	1475.0	1520.0	45.0	0.969
C172S	2200	Takeoff Ground Run (8000 msl / 30 C)	1580.0	1640.0	60.0	0.962
C172S	2200	Takeoff 50 (0 msl / 0 C)	1055.0	1060.0	5.0	0.995
C172S	2200	Takeoff 50 (0 msl / 20 C)	1205.0	1190.0	-15.0	0.988
C172S	2200	Takeoff 50 (0 msl / 30 C)	1290.0	1260.0	-30.0	0.977
C172S	2200	Takeoff 50 (4000 msl / 0 C)	1490.0	1480.0	-10.0	0.993
C172S	2200	Takeoff 50 (4000 msl / 20 C)	1725.0	1670.0	-55.0	0.968
C172S	2200	Takeoff 50 (4000 msl / 30 C)	1855.0	1770.0	-85.0	0.954
C172S	2200	Takeoff 50 (8000 msl / 0 C)	2195.0	2170.0	-25.0	0.989
C172S	2200	Takeoff 50 (8000 msl / 20 C)	2555.0	2500.0	-55.0	0.978
C172S	2200	Takeoff 50 (8000 msl / 30 C)	2745.0	2700.0	-45.0	0.984
C172S	2200	Takeoff KCAS	53.0	57.4	4.4	0.917
C172S	2400	Takeoff Ground Run (0 msl / 0 C)	745.0	760.0	15.0	0.980
C172S	2400	Takeoff Ground Run (0 msl / 20 C)	860.0	860.0	0.0	1.000
C172S	2400	Takeoff Ground Run (0 msl / 30 C)	925.0	930.0	5.0	0.995
C172S	2400	Takeoff Ground Run (4000 msl / 0 C)	1065.0	1090.0	25.0	0.977
C172S	2400	Takeoff Ground Run (4000 msl / 20 C)	1240.0	1260.0	20.0	0.984
C172S	2400	Takeoff Ground Run (4000 msl / 30 C)	1335.0	1350.0	15.0	0.989
C172S	2400	Takeoff Ground Run (8000 msl / 0 C)	1560.0	1680.0	120.0	0.923
C172S	2400	Takeoff Ground Run (8000 msl / 20 C)	1815.0	1980.0	165.0	0.909
C172S	2400	Takeoff Ground Run (8000 msl / 30 C)	1950.0	2160.0	210.0	0.892
C172S	2400	Takeoff 50 (0 msl / 0 C)	1275.0	1290.0	15.0	0.988
C172S	2400	Takeoff 50 (0 msl / 20 C)	1470.0	1450.0	-20.0	0.986
C172S	2400	Takeoff 50 (0 msl / 30 C)	1570.0	1540.0	-30.0	0.981
C172S	2400	Takeoff 50 (4000 msl / 0 C)	1830.0	1830.0	0.0	1.000
C172S	2400	Takeoff 50 (4000 msl / 20 C)	2130.0	2090.0	-40.0	0.981
C172S	2400	Takeoff 50 (4000 msl / 30 C)	2295.0	2230.0	-65.0	0.972
C172S	2400	Takeoff 50 (8000 msl / 0 C)	2755.0	2790.0	35.0	0.987
C172S	2400	Takeoff 50 (8000 msl / 20 C)	3240.0	3270.0	30.0	0.991
C172S	2400	Takeoff 50 (8000 msl / 30 C)	3500.0	3540.0	40.0	0.989
C172S	2400	Takeoff KCAS	56.0	60.0	4.0	0.929
C172S	2550	Stall clean KCAS	53.0	53.0	0.0	1.000

C172S	2550	Stall partial flaps KCAS	50.0	50.0	0.0	1.000
C172S	2550	Stall full flaps KCAS	48.0	48.0	0.0	1.000
C172S	2550	Takeoff Ground Run (0 msl / 0 C)	860.0	970.0	110.0	0.872
C172S	2550	Takeoff Ground Run (0 msl / 20 C)	995.0	1010.0	15.0	0.985
C172S	2550	Takeoff Ground Run (0 msl / 30 C)	1070.0	1080.0	10.0	0.991
C172S	2550	Takeoff Ground Run (4000 msl / 0 C)	1235.0	1290.0	55.0	0.955
C172S	2550	Takeoff Ground Run (4000 msl / 20 C)	1440.0	1500.0	60.0	0.958
C172S	2550	Takeoff Ground Run (4000 msl / 30 C)	1550.0	1610.0	60.0	0.961
C172S	2550	Takeoff Ground Run (8000 msl / 0 C)	1820.0	2020.0	200.0	0.890
C172S	2550	Takeoff Ground Run (8000 msl / 20 C)	2120.0	2430.0	310.0	0.854
C172S	2550	Takeoff Ground Run (8000 msl / 30 C)	2280.0	2670.0	390.0	0.829
C172S	2550	Takeoff 50 (0 msl / 0 C)	1465.0	1630.0	165.0	0.887
C172S	2550	Takeoff 50 (0 msl / 20 C)	1690.0	1690.0	0.0	1.000
C172S	2550	Takeoff 50 (0 msl / 30 C)	1810.0	1790.0	-20.0	0.989
C172S	2550	Takeoff 50 (4000 msl / 0 C)	2120.0	2160.0	40.0	0.981
C172S	2550	Takeoff 50 (4000 msl / 20 C)	2480.0	2470.0	-10.0	0.996
C172S	2550	Takeoff 50 (4000 msl / 30 C)	2685.0	2640.0	-45.0	0.983
C172S	2550	Takeoff 50 (8000 msl / 0 C)	3265.0	3380.0	115.0	0.965
C172S	2550	Takeoff 50 (8000 msl / 20 C)	3880.0	4020.0	140.0	0.964
C172S	2550	Takeoff 50 (8000 msl / 30 C)	4225.0	4410.0	185.0	0.956
C172S	2550	Takeoff KCAS	58.0	61.8	3.8	0.934
C172S	2550	Vx KCAS (0 msl / 0 C)	61.0	62.0	1.0	0.983
C172S	2550	Vy KCAS (0 msl / 40 C)	74.0	76.6	2.6	0.965
C172S	2550	Vy KCAS (4000 msl / 20 C)	73.0	75.4	2.4	0.967
C172S	2550	Vy KCAS (8000 msl / 0 C)	72.0	73.0	1.0	0.986
C172S	2550	Vy FPM (0 msl / 0 C)	785.0	784.4	-0.6	0.999
C172S	2550	Vy FPM (0 msl / 20 C)	710.0	730.5	20.5	0.971
C172S	2550	Vy FPM (0 msl / 40 C)	645.0	680.3	35.3	0.945
C172S	2550	Vy FPM (4000 msl / 0 C)	620.0	584.7	-35.3	0.943
C172S	2550	Vy FPM (4000 msl / 20 C)	555.0	533.6	-21.4	0.962
C172S	2550	Vy FPM (4000 msl / 40 C)	495.0	485.4	-9.6	0.981
C172S	2550	Vy FPM (8000 msl / 0 C)	405.0	392.3	-12.7	0.969
C172S	2550	Vy FPM (8000 msl / 20 C)	345.0	343.4	-1.6	0.995
C172S	2550	Vy FPM (8000 msl / 40 C)	285.0	296.5	11.5	0.960
C172S	2550	55% cruise KTAS (4000 msl / Std Day)	103.0	104.0	1.0	0.990
C172S	2550	55% cruise KTAS (8000 msl / Std Day)	105.0	107.0	2.0	0.981
C172S	2550	55% cruise KTAS (12000 msl / Std Day)	109.0	110.0	1.0	0.991
C172S	2550	65% cruise KTAS (4000 msl / Std Day)	112.0	114.0	2.0	0.982
C172S	2550	65% cruise KTAS (8000 msl / Std Day)	115.0	118.0	3.0	0.974
C172S	2550	65% cruise KTAS (12000 msl / Std Day)	119.0	115.0	-4.0	0.966
C172S	2550	75% cruise KTAS (4000 msl / Std Day)	118.5	121.0	2.5	0.979
C172S	2550	75% cruise KTAS (8000 msl / Std Day)	123.0	120.0	-3.0	0.976
C172S	2550	55% cruise FF (4000 msl / Std Day)	7.8	7.9	0.1	0.985
C172S	2550	55% cruise FF (8000 msl / Std Day)	7.7	7.9	0.2	0.972
C172S	2550	55% cruise FF (12000 msl / Std Day)	7.8	7.9	0.1	0.985
C172S	2550	65% cruise FF (4000 msl / Std Day)	9.0	9.1	0.1	0.989
C172S	2550	65% cruise FF (8000 msl / Std Day)	9.1	9.1	0.0	1.000
C172S	2550	65% cruise FF (12000 msl / Std Day)	8.9	8.4	-0.5	0.943
C172S	2550	75% cruise FF (4000 msl / Std Day)	10.2	10.2	0.1	0.994

C172S	2550	75% cruise FF (8000 msl / Std Day)	10.2	9.4	-0.8	0.925
C172S	2550	Normal approach CAS (1.333 to 1)	64.0	64.0	-0.0	1.000
C172S	2550	Land roll (0 msl / 0 C)	545.0	550.0	5.0	0.991
C172S	2550	Land roll (0 msl / 20 C)	585.0	580.0	-5.0	0.991
C172S	2550	Land roll (0 msl / 40 C)	605.0	620.0	15.0	0.975
C172S	2550	Land roll (4000 msl / 0 C)	630.0	630.0	0.0	1.000
C172S	2550	Land roll (4000 msl / 20 C)	675.0	670.0	-5.0	0.993
C172S	2550	Land roll (4000 msl / 40 C)	700.0	720.0	20.0	0.971
C172S	2550	Land roll (8000 msl / 0 C)	735.0	720.0	-15.0	0.980
C172S	2550	Land roll (8000 msl / 20 C)	790.0	770.0	-20.0	0.975
C172S	2550	Land roll (8000 msl / 40 C)	815.0	830.0	15.0	0.982

-- TLAR PERFORMANCE ACCURACY FOR C180K -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
C180K	O-470U	false	230	2400	82	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
C180K	2400	Takeoff Ground Run (0 msl / 0 C)	395.0	400.0	5.0	0.987
C180K	2400	Takeoff Ground Run (0 msl / 20 C)	450.0	450.0	0.0	1.000
C180K	2400	Takeoff Ground Run (0 msl / 30 C)	485.0	470.0	-15.0	0.969
C180K	2400	Takeoff Ground Run (3000 msl / 0 C)	510.0	500.0	-10.0	0.980
C180K	2400	Takeoff Ground Run (3000 msl / 20 C)	590.0	570.0	-20.0	0.966
C180K	2400	Takeoff Ground Run (3000 msl / 30 C)	630.0	600.0	-30.0	0.952
C180K	2400	Takeoff Ground Run (6000 msl / 0 C)	670.0	650.0	-20.0	0.970
C180K	2400	Takeoff Ground Run (6000 msl / 20 C)	775.0	750.0	-25.0	0.968
C180K	2400	Takeoff Ground Run (6000 msl / 30 C)	830.0	800.0	-30.0	0.964
C180K	2400	Takeoff 50 (0 msl / 0 C)	770.0	890.0	120.0	0.844
C180K	2400	Takeoff 50 (0 msl / 20 C)	875.0	980.0	105.0	0.880
C180K	2400	Takeoff 50 (0 msl / 30 C)	930.0	1010.0	80.0	0.914
C180K	2400	Takeoff 50 (3000 msl / 0 C)	995.0	1080.0	85.0	0.915
C180K	2400	Takeoff 50 (3000 msl / 20 C)	1135.0	1190.0	55.0	0.952
C180K	2400	Takeoff 50 (3000 msl / 30 C)	1210.0	1230.0	20.0	0.983
C180K	2400	Takeoff 50 (6000 msl / 0 C)	1310.0	1340.0	30.0	0.977
C180K	2400	Takeoff 50 (6000 msl / 20 C)	1505.0	1490.0	-15.0	0.990
C180K	2400	Takeoff 50 (6000 msl / 30 C)	1610.0	1560.0	-50.0	0.969
C180K	2400	Takeoff KCAS	49.0	49.0	0.0	1.000
C180K	2600	Takeoff Ground Run (0 msl / 0 C)	475.0	470.0	-5.0	0.989
C180K	2600	Takeoff Ground Run (0 msl / 20 C)	545.0	530.0	-15.0	0.972
C180K	2600	Takeoff Ground Run (0 msl / 30 C)	585.0	570.0	-15.0	0.974
C180K	2600	Takeoff Ground Run (3000 msl / 0 C)	620.0	600.0	-20.0	0.968
C180K	2600	Takeoff Ground Run (3000 msl / 20 C)	710.0	690.0	-20.0	0.972
C180K	2600	Takeoff Ground Run (3000 msl / 30 C)	765.0	740.0	-25.0	0.967
C180K	2600	Takeoff Ground Run (6000 msl / 0 C)	815.0	800.0	-15.0	0.982
C180K	2600	Takeoff Ground Run (6000 msl / 20 C)	945.0	920.0	-25.0	0.974
C180K	2600	Takeoff Ground Run (6000 msl / 30 C)	1015.0	990.0	-25.0	0.975
C180K	2600	Takeoff 50 (0 msl / 0 C)	925.0	1030.0	105.0	0.886
C180K	2600	Takeoff 50 (0 msl / 20 C)	1050.0	1120.0	70.0	0.933

C180K	2600	Takeoff 50 (0 msl / 30 C)	1120.0	1180.0	60.0	0.946
C180K	2600	Takeoff 50 (3000 msl / 0 C)	1200.0	1260.0	60.0	0.950
C180K	2600	Takeoff 50 (3000 msl / 20 C)	1375.0	1390.0	15.0	0.989
C180K	2600	Takeoff 50 (3000 msl / 30 C)	1470.0	1460.0	-10.0	0.993
C180K	2600	Takeoff 50 (6000 msl / 0 C)	1600.0	1600.0	0.0	1.000
C180K	2600	Takeoff 50 (6000 msl / 20 C)	1850.0	1790.0	-60.0	0.968
C180K	2600	Takeoff 50 (6000 msl / 30 C)	1990.0	1900.0	-90.0	0.955
C180K	2600	Takeoff KCAS	51.0	51.0	0.0	0.999
C180K	2800	Stall clean KCAS	54.0	54.0	0.0	1.000
C180K	2800	Stall partial flaps KCAS	50.0	50.0	0.0	1.000
C180K	2800	Stall full flaps KCAS	49.0	49.0	0.0	1.000
C180K	2800	Takeoff Ground Run (0 msl / 0 C)	560.0	620.0	60.0	0.893
C180K	2800	Takeoff Ground Run (0 msl / 20 C)	645.0	630.0	-15.0	0.977
C180K	2800	Takeoff Ground Run (0 msl / 30 C)	695.0	670.0	-25.0	0.964
C180K	2800	Takeoff Ground Run (3000 msl / 0 C)	735.0	730.0	-5.0	0.993
C180K	2800	Takeoff Ground Run (3000 msl / 20 C)	850.0	840.0	-10.0	0.988
C180K	2800	Takeoff Ground Run (3000 msl / 30 C)	910.0	900.0	-10.0	0.989
C180K	2800	Takeoff Ground Run (6000 msl / 0 C)	975.0	990.0	15.0	0.985
C180K	2800	Takeoff Ground Run (6000 msl / 20 C)	1130.0	1140.0	10.0	0.991
C180K	2800	Takeoff Ground Run (6000 msl / 30 C)	1215.0	1230.0	15.0	0.988
C180K	2800	Takeoff 50 (0 msl / 0 C)	1090.0	1270.0	180.0	0.835
C180K	2800	Takeoff 50 (0 msl / 20 C)	1245.0	1290.0	45.0	0.964
C180K	2800	Takeoff 50 (0 msl / 30 C)	1330.0	1350.0	20.0	0.985
C180K	2800	Takeoff 50 (3000 msl / 0 C)	1430.0	1480.0	50.0	0.965
C180K	2800	Takeoff 50 (3000 msl / 20 C)	1645.0	1640.0	-5.0	0.997
C180K	2800	Takeoff 50 (3000 msl / 30 C)	1765.0	1740.0	-25.0	0.986
C180K	2800	Takeoff 50 (6000 msl / 0 C)	1935.0	1920.0	-15.0	0.992
C180K	2800	Takeoff 50 (6000 msl / 20 C)	2255.0	2190.0	-65.0	0.971
C180K	2800	Takeoff 50 (6000 msl / 30 C)	2435.0	2340.0	-95.0	0.961
C180K	2800	Takeoff KCAS	53.0	53.0	-0.0	0.999
C180K	2800	Vx KCAS (0 msl / 0 C)	58.0	63.0	5.0	0.914
C180K	2800	Vy KCAS (0 msl / 40 C)	80.0	77.5	-2.5	0.969
C180K	2800	Vy KCAS (4000 msl / 20 C)	77.0	75.4	-1.6	0.980
C180K	2800	Vy KCAS (8000 msl / -20 C)	74.0	73.8	-0.2	0.998
C180K	2800	Vy FPM (0 msl / -20 C)	1250.0	1138.3	-111.7	0.911
C180K	2800	Vy FPM (0 msl / 20 C)	1080.0	1030.9	-49.1	0.955
C180K	2800	Vy FPM (0 msl / 40 C)	995.0	972.5	-22.5	0.977
C180K	2800	Vy FPM (4000 msl / -20 C)	980.0	920.8	-59.2	0.940
C180K	2800	Vy FPM (4000 msl / 20 C)	825.0	798.7	-26.3	0.968
C180K	2800	Vy FPM (4000 msl / 40 C)	750.0	740.8	-9.2	0.988
C180K	2800	Vy FPM (8000 msl / -20 C)	715.0	692.1	-22.9	0.968
C180K	2800	Vy FPM (8000 msl / 20 C)	575.0	572.4	-2.6	0.995
C180K	2800	Vy FPM (8000 msl / 40 C)	505.0	517.2	12.2	0.976
C180K	2800	55% cruise KTAS (2000 msl / Std Day)	117.0	116.0	-1.0	0.991
C180K	2800	55% cruise KTAS (6000 msl / Std Day)	120.5	121.0	0.5	0.996
C180K	2800	55% cruise KTAS (10000 msl / Std Day)	124.0	125.0	1.0	0.992
C180K	2800	65% cruise KTAS (2000 msl / Std Day)	126.0	126.0	0.0	1.000
C180K	2800	65% cruise KTAS (6000 msl / Std Day)	131.0	131.0	0.0	1.000

C180K	2800	65% cruise KTAS (10000 msl / Std Day)	135.0	136.0	1.0	0.993
C180K	2800	75% cruise KTAS (2000 msl / Std Day)	134.0	134.0	0.0	1.000
C180K	2800	75% cruise KTAS (6000 msl / Std Day)	139.0	139.0	0.0	1.000
C180K	2800	55% cruise FF (2000 msl / Std Day)	9.4	9.5	0.1	0.990
C180K	2800	55% cruise FF (6000 msl / Std Day)	9.5	9.5	-0.0	0.999
C180K	2800	55% cruise FF (10000 msl / Std Day)	9.4	9.5	0.1	0.990
C180K	2800	65% cruise FF (2000 msl / Std Day)	11.1	11.1	0.0	0.999
C180K	2800	65% cruise FF (6000 msl / Std Day)	11.1	11.1	0.0	0.999
C180K	2800	65% cruise FF (10000 msl / Std Day)	11.1	11.1	-0.0	0.996
C180K	2800	75% cruise FF (2000 msl / Std Day)	12.8	12.7	-0.1	0.994
C180K	2800	75% cruise FF (6000 msl / Std Day)	12.8	12.6	-0.3	0.977
C180K	2800	Normal approach CAS (1.327 to 1)	65.0	65.0	-0.0	1.000
C180K	2800	Land roll (0 msl / 0 C)	455.0	470.0	15.0	0.967
C180K	2800	Land roll (0 msl / 20 C)	490.0	500.0	10.0	0.980
C180K	2800	Land roll (0 msl / 40 C)	520.0	530.0	10.0	0.981
C180K	2800	Land roll (4000 msl / 0 C)	525.0	530.0	5.0	0.990
C180K	2800	Land roll (4000 msl / 20 C)	565.0	570.0	5.0	0.991
C180K	2800	Land roll (4000 msl / 40 C)	605.0	610.0	5.0	0.992
C180K	2800	Land roll (8000 msl / 0 C)	615.0	610.0	-5.0	0.992
C180K	2800	Land roll (8000 msl / 20 C)	655.0	650.0	-5.0	0.992
C180K	2800	Land roll (8000 msl / 40 C)	700.0	700.0	0.0	1.000

-- TLAR PERFORMANCE ACCURACY FOR C182P -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
C182P	O-470S	false	230	2600	82	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
C182P	2400	Takeoff Ground Run (0 msl / 0 C)	395.0	400.0	5.0	0.987
C182P	2400	Takeoff Ground Run (0 msl / 20 C)	455.0	440.0	-15.0	0.967
C182P	2400	Takeoff Ground Run (0 msl / 30 C)	485.0	470.0	-15.0	0.969
C182P	2400	Takeoff Ground Run (3000 msl / 0 C)	515.0	500.0	-15.0	0.971
C182P	2400	Takeoff Ground Run (3000 msl / 20 C)	590.0	570.0	-20.0	0.966
C182P	2400	Takeoff Ground Run (3000 msl / 30 C)	630.0	600.0	-30.0	0.952
C182P	2400	Takeoff Ground Run (6000 msl / 0 C)	670.0	650.0	-20.0	0.970
C182P	2400	Takeoff Ground Run (6000 msl / 20 C)	770.0	750.0	-20.0	0.974
C182P	2400	Takeoff Ground Run (6000 msl / 30 C)	825.0	800.0	-25.0	0.970
C182P	2400	Takeoff 50 (0 msl / 0 C)	775.0	820.0	45.0	0.942
C182P	2400	Takeoff 50 (0 msl / 20 C)	875.0	900.0	25.0	0.971
C182P	2400	Takeoff 50 (0 msl / 30 C)	930.0	950.0	20.0	0.978
C182P	2400	Takeoff 50 (3000 msl / 0 C)	995.0	1020.0	25.0	0.975
C182P	2400	Takeoff 50 (3000 msl / 20 C)	1130.0	1130.0	0.0	1.000
C182P	2400	Takeoff 50 (3000 msl / 30 C)	1205.0	1210.0	5.0	0.996
C182P	2400	Takeoff 50 (6000 msl / 0 C)	1300.0	1310.0	10.0	0.992
C182P	2400	Takeoff 50 (6000 msl / 20 C)	1490.0	1480.0	-10.0	0.993
C182P	2400	Takeoff 50 (6000 msl / 30 C)	1595.0	1560.0	-35.0	0.978
C182P	2400	Takeoff KCAS	53.0	49.5	-3.5	0.934
C182P	2700	Takeoff Ground Run (0 msl / 0 C)	520.0	520.0	0.0	1.000

C182P	2700	Takeoff Ground Run (0 msl / 20 C)	595.0	580.0	-15.0	0.975
C182P	2700	Takeoff Ground Run (0 msl / 30 C)	635.0	610.0	-25.0	0.961
C182P	2700	Takeoff Ground Run (3000 msl / 0 C)	675.0	670.0	-5.0	0.993
C182P	2700	Takeoff Ground Run (3000 msl / 20 C)	775.0	760.0	-15.0	0.981
C182P	2700	Takeoff Ground Run (3000 msl / 30 C)	830.0	810.0	-20.0	0.976
C182P	2700	Takeoff Ground Run (6000 msl / 0 C)	885.0	880.0	-5.0	0.994
C182P	2700	Takeoff Ground Run (6000 msl / 20 C)	1020.0	1020.0	0.0	1.000
C182P	2700	Takeoff Ground Run (6000 msl / 30 C)	1095.0	1100.0	5.0	0.995
C182P	2700	Takeoff 50 (0 msl / 0 C)	1000.0	1050.0	50.0	0.950
C182P	2700	Takeoff 50 (0 msl / 20 C)	1135.0	1160.0	25.0	0.978
C182P	2700	Takeoff 50 (0 msl / 30 C)	1210.0	1230.0	20.0	0.983
C182P	2700	Takeoff 50 (3000 msl / 0 C)	1295.0	1340.0	45.0	0.965
C182P	2700	Takeoff 50 (3000 msl / 20 C)	1485.0	1490.0	5.0	0.997
C182P	2700	Takeoff 50 (3000 msl / 30 C)	1585.0	1570.0	-15.0	0.991
C182P	2700	Takeoff 50 (6000 msl / 0 C)	1730.0	1730.0	0.0	1.000
C182P	2700	Takeoff 50 (6000 msl / 20 C)	1995.0	1970.0	-25.0	0.987
C182P	2700	Takeoff 50 (6000 msl / 30 C)	2150.0	2100.0	-50.0	0.977
C182P	2700	Takeoff KCAS	56.0	52.5	-3.5	0.937
C182P	2950	Stall clean KCAS	57.5	57.5	0.0	1.000
C182P	2950	Stall partial flaps KCAS	53.0	53.0	0.0	1.000
C182P	2950	Stall full flaps KCAS	52.0	52.0	-0.0	1.000
C182P	2950	Takeoff Ground Run (0 msl / 0 C)	635.0	690.0	55.0	0.913
C182P	2950	Takeoff Ground Run (0 msl / 20 C)	730.0	720.0	-10.0	0.986
C182P	2950	Takeoff Ground Run (0 msl / 30 C)	780.0	770.0	-10.0	0.987
C182P	2950	Takeoff Ground Run (3000 msl / 0 C)	825.0	830.0	5.0	0.994
C182P	2950	Takeoff Ground Run (3000 msl / 20 C)	950.0	960.0	10.0	0.989
C182P	2950	Takeoff Ground Run (3000 msl / 30 C)	1020.0	1030.0	10.0	0.990
C182P	2950	Takeoff Ground Run (6000 msl / 0 C)	1090.0	1140.0	50.0	0.954
C182P	2950	Takeoff Ground Run (6000 msl / 20 C)	1260.0	1330.0	70.0	0.944
C182P	2950	Takeoff Ground Run (6000 msl / 30 C)	1350.0	1440.0	90.0	0.933
C182P	2950	Takeoff 50 (0 msl / 0 C)	1220.0	1370.0	150.0	0.877
C182P	2950	Takeoff 50 (0 msl / 20 C)	1395.0	1420.0	25.0	0.982
C182P	2950	Takeoff 50 (0 msl / 30 C)	1490.0	1500.0	10.0	0.993
C182P	2950	Takeoff 50 (3000 msl / 0 C)	1605.0	1640.0	35.0	0.978
C182P	2950	Takeoff 50 (3000 msl / 20 C)	1850.0	1850.0	0.0	1.000
C182P	2950	Takeoff 50 (3000 msl / 30 C)	1985.0	1980.0	-5.0	0.997
C182P	2950	Takeoff 50 (6000 msl / 0 C)	2185.0	2190.0	5.0	0.998
C182P	2950	Takeoff 50 (6000 msl / 20 C)	2555.0	2500.0	-55.0	0.978
C182P	2950	Takeoff 50 (6000 msl / 30 C)	2765.0	2690.0	-75.0	0.973
C182P	2950	Takeoff KCAS	57.0	54.9	-2.1	0.963
C182P	2950	Vx KCAS (0 msl / 0 C)	62.0	64.0	2.0	0.968
C182P	2950	Vy KCAS (0 msl / 40 C)	80.0	83.3	3.3	0.959
C182P	2950	Vy KCAS (4000 msl / 20 C)	77.0	81.7	4.7	0.940
C182P	2950	Vy KCAS (8000 msl / -20 C)	75.0	78.8	3.8	0.950
C182P	2950	Vy FPM (0 msl / -20 C)	1040.0	1009.7	-30.3	0.971
C182P	2950	Vy FPM (0 msl / 20 C)	870.0	904.0	34.0	0.961
C182P	2950	Vy FPM (0 msl / 40 C)	785.0	852.2	67.2	0.914
C182P	2950	Vy FPM (4000 msl / -20 C)	820.0	801.2	-18.8	0.977

C182P	2950	Vy FPM (4000 msl / 20 C)	660.0	691.9	31.9	0.952
C182P	2950	Vy FPM (4000 msl / 40 C)	585.0	642.5	57.5	0.902
C182P	2950	Vy FPM (8000 msl / -20 C)	600.0	590.8	-9.2	0.985
C182P	2950	Vy FPM (8000 msl / 20 C)	460.0	487.2	27.2	0.941
C182P	2950	Vy FPM (8000 msl / 40 C)	390.0	439.7	49.7	0.873
C182P	2950	55% cruise KTAS (2000 msl / Std Day)	122.0	116.0	-6.0	0.951
C182P	2950	55% cruise KTAS (6000 msl / Std Day)	124.5	120.0	-4.5	0.964
C182P	2950	55% cruise KTAS (10000 msl / Std Day)	129.0	124.0	-5.0	0.961
C182P	2950	65% cruise KTAS (2000 msl / Std Day)	131.0	126.0	-5.0	0.962
C182P	2950	65% cruise KTAS (6000 msl / Std Day)	135.0	131.0	-4.0	0.970
C182P	2950	65% cruise KTAS (10000 msl / Std Day)	140.0	133.0	-7.0	0.950
C182P	2950	75% cruise KTAS (2000 msl / Std Day)	138.5	134.0	-4.5	0.968
C182P	2950	75% cruise KTAS (6000 msl / Std Day)	143.5	137.0	-6.5	0.955
C182P	2950	55% cruise FF (2000 msl / Std Day)	10.3	10.6	0.3	0.967
C182P	2950	55% cruise FF (6000 msl / Std Day)	10.3	10.6	0.3	0.967
C182P	2950	55% cruise FF (10000 msl / Std Day)	10.4	10.6	0.2	0.977
C182P	2950	65% cruise FF (2000 msl / Std Day)	12.1	12.5	0.4	0.967
C182P	2950	65% cruise FF (6000 msl / Std Day)	12.0	12.5	0.5	0.962
C182P	2950	65% cruise FF (10000 msl / Std Day)	11.9	11.9	-0.0	0.996
C182P	2950	75% cruise FF (2000 msl / Std Day)	13.9	14.3	0.4	0.974
C182P	2950	75% cruise FF (6000 msl / Std Day)	13.9	13.7	-0.3	0.980
C182P	2950	Normal approach CAS (1.231 to 1)	64.0	64.0	-0.0	1.000
C182P	2950	Land roll (0 msl / 0 C)	560.0	570.0	10.0	0.982
C182P	2950	Land roll (0 msl / 20 C)	600.0	610.0	10.0	0.983
C182P	2950	Land roll (0 msl / 40 C)	640.0	650.0	10.0	0.984
C182P	2950	Land roll (4000 msl / 0 C)	650.0	650.0	0.0	1.000
C182P	2950	Land roll (4000 msl / 20 C)	670.0	700.0	30.0	0.955
C182P	2950	Land roll (4000 msl / 40 C)	740.0	740.0	0.0	1.000
C182P	2950	Land roll (8000 msl / 0 C)	755.0	750.0	-5.0	0.993
C182P	2950	Land roll (8000 msl / 20 C)	810.0	800.0	-10.0	0.988
C182P	2950	Land roll (8000 msl / 40 C)	865.0	860.0	-5.0	0.994

-- TLAR PERFORMANCE ACCURACY FOR C240T -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
C240T	TSIO-550C	true	310	2600	78	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
C240T	3000	Takeoff Ground Run (0 msl / 0 C)	780.0	760.0	-20.0	0.974
C240T	3000	Takeoff Ground Run (0 msl / 20 C)	903.0	850.0	-53.0	0.941
C240T	3000	Takeoff Ground Run (0 msl / 30 C)	968.0	940.0	-28.0	0.971
C240T	3000	Takeoff Ground Run (4000 msl / 0 C)	944.0	910.0	-34.0	0.964
C240T	3000	Takeoff Ground Run (4000 msl / 20 C)	1088.0	1070.0	-18.0	0.983
C240T	3000	Takeoff Ground Run (4000 msl / 30 C)	1164.0	1190.0	26.0	0.978
C240T	3000	Takeoff Ground Run (8000 msl / 0 C)	1144.0	1100.0	-44.0	0.962
C240T	3000	Takeoff Ground Run (8000 msl / 20 C)	1318.0	1360.0	42.0	0.968
C240T	3000	Takeoff 50 (0 msl / 0 C)	1277.0	1210.0	-67.0	0.948
C240T	3000	Takeoff 50 (0 msl / 20 C)	1430.0	1320.0	-110.0	0.923
C240T	3000	Takeoff 50 (0 msl / 30 C)	1511.0	1450.0	-61.0	0.960

C240T	3000	Takeoff 50 (4000 msl / 0 C)	1482.0	1380.0	-102.0	0.931
C240T	3000	Takeoff 50 (4000 msl / 20 C)	1661.0	1590.0	-71.0	0.957
C240T	3000	Takeoff 50 (4000 msl / 30 C)	1756.0	1760.0	4.0	0.998
C240T	3000	Takeoff 50 (8000 msl / 0 C)	1731.0	1610.0	-121.0	0.930
C240T	3000	Takeoff 50 (8000 msl / 20 C)	1948.0	1950.0	2.0	0.999
C240T	3000	Takeoff KCAS	59.0	70.9	11.9	0.799
C240T	3000	Vx KCAS (0 msl / 0 delta C)	78.0	71.0	-7.0	0.910
C240T	3000	Vy KCAS (0 msl / 30 delta C)	108.0	108.0	0.0	1.000
C240T	3000	Vy KCAS (14000 msl / 0 delta C)	108.0	108.0	0.0	1.000
C240T	3000	Vy KCAS (24000 msl / -20 delta C)	108.0	108.0	0.0	1.000
C240T	3000	Vy FPM (0 msl / -20 delta C)	1920.0	1643.2	-276.8	0.856
C240T	3000	Vy FPM (0 msl / 0 delta C)	1635.0	1653.6	18.6	0.989
C240T	3000	Vy FPM (0 msl / 30 delta C)	1230.0	1344.5	114.5	0.907
C240T	3000	Vy FPM (14000 msl / -20 delta C)	1945.0	1713.8	-231.2	0.881
C240T	3000	Vy FPM (14000 msl / 0 delta C)	1635.0	1713.6	78.6	0.952
C240T	3000	Vy FPM (14000 msl / 30 delta C)	1210.0	1317.9	107.9	0.911
C240T	3000	Vy FPM (24000 msl / -20 delta C)	1420.0	1677.3	257.3	0.819
C240T	3000	Vy FPM (24000 msl / 0 delta C)	1140.0	1349.9	209.9	0.816
C240T	3000	Vy FPM (24000 msl / 30 delta C)	750.0	951.4	201.4	0.731
C240T	3300	Takeoff Ground Run (0 msl / 0 C)	969.0	960.0	-9.0	0.991
C240T	3300	Takeoff Ground Run (0 msl / 20 C)	1118.0	1070.0	-48.0	0.957
C240T	3300	Takeoff Ground Run (0 msl / 30 C)	1197.0	1190.0	-7.0	0.994
C240T	3300	Takeoff Ground Run (4000 msl / 0 C)	1169.0	1150.0	-19.0	0.984
C240T	3300	Takeoff Ground Run (4000 msl / 20 C)	1343.0	1350.0	7.0	0.995
C240T	3300	Takeoff Ground Run (4000 msl / 30 C)	1434.0	1500.0	66.0	0.954
C240T	3300	Takeoff Ground Run (8000 msl / 0 C)	1411.0	1370.0	-41.0	0.971
C240T	3300	Takeoff Ground Run (8000 msl / 20 C)	1621.0	1730.0	109.0	0.933
C240T	3300	Takeoff 50 (0 msl / 0 C)	1513.0	1480.0	-33.0	0.978
C240T	3300	Takeoff 50 (0 msl / 20 C)	1699.0	1610.0	-89.0	0.948
C240T	3300	Takeoff 50 (0 msl / 30 C)	1797.0	1780.0	-17.0	0.991
C240T	3300	Takeoff 50 (4000 msl / 0 C)	1762.0	1700.0	-62.0	0.965
C240T	3300	Takeoff 50 (4000 msl / 20 C)	1979.0	1960.0	-19.0	0.990
C240T	3300	Takeoff 50 (4000 msl / 30 C)	2093.0	2160.0	67.0	0.968
C240T	3300	Takeoff 50 (8000 msl / 0 C)	2063.0	1950.0	-113.0	0.945
C240T	3300	Takeoff 50 (8000 msl / 20 C)	2326.0	2420.0	94.0	0.960
C240T	3300	Takeoff KCAS	62.0	74.3	12.3	0.801
C240T	3300	Vx KCAS (0 msl / 0 delta C)	81.0	75.0	-6.0	0.926
C240T	3300	Vy KCAS (0 msl / 30 delta C)	110.0	110.0	0.0	1.000
C240T	3300	Vy KCAS (14000 msl / 0 delta C)	110.0	110.0	0.0	1.000
C240T	3300	Vy KCAS (24000 msl / -20 delta C)	110.0	110.0	0.0	1.000
C240T	3300	Vy FPM (0 msl / -20 delta C)	1780.0	1447.5	-332.5	0.813
C240T	3300	Vy FPM (0 msl / 0 delta C)	1515.0	1455.4	-59.6	0.961
C240T	3300	Vy FPM (0 msl / 30 delta C)	1145.0	1168.3	23.3	0.980
C240T	3300	Vy FPM (14000 msl / -20 delta C)	1780.0	1497.7	-282.3	0.841
C240T	3300	Vy FPM (14000 msl / 0 delta C)	1495.0	1491.5	-3.5	0.998
C240T	3300	Vy FPM (14000 msl / 30 delta C)	1110.0	1122.5	12.5	0.989
C240T	3300	Vy FPM (24000 msl / -20 delta C)	1315.0	1446.8	131.8	0.900
C240T	3300	Vy FPM (24000 msl / 0 delta C)	1055.0	1144.8	89.8	0.915

C240T	3300	Vy FPM (24000 msl / 30 delta C)	700.0	775.9	75.9	0.892
C240T	3300	Normal approach CAS (1.448 to 1)	83.0	83.2	0.2	0.998
C240T	3300	Land roll (0 msl / 0 C)	1180.0	1140.0	-40.0	0.966
C240T	3300	Land roll (0 msl / 15 C)	1200.0	1200.0	0.0	1.000
C240T	3300	Land roll (0 msl / 30 C)	1250.0	1260.0	10.0	0.992
C240T	3300	Land roll (4000 msl / 0 C)	1300.0	1310.0	10.0	0.992
C240T	3300	Land roll (4000 msl / 15 C)	1390.0	1380.0	-10.0	0.993
C240T	3300	Land roll (4000 msl / 30 C)	1450.0	1450.0	0.0	1.000
C240T	3300	Land roll (8000 msl / 0 C)	1520.0	1510.0	-10.0	0.993
C240T	3300	Land roll (8000 msl / 15 C)	1600.0	1600.0	0.0	1.000
C240T	3300	Land roll (8000 msl / 30 C)	1690.0	1690.0	0.0	1.000
C240T	3600	Stall clean KCAS	73.0	73.0	0.0	1.000
C240T	3600	Stall partial flaps KCAS	66.0	66.0	0.0	1.000
C240T	3600	Stall full flaps KCAS	60.0	60.0	0.0	1.000
C240T	3600	Takeoff Ground Run (0 msl / 0 C)	1159.0	1260.0	101.0	0.913
C240T	3600	Takeoff Ground Run (0 msl / 20 C)	1333.0	1320.0	-13.0	0.990
C240T	3600	Takeoff Ground Run (0 msl / 30 C)	1426.0	1470.0	44.0	0.969
C240T	3600	Takeoff Ground Run (4000 msl / 0 C)	1393.0	1400.0	7.0	0.995
C240T	3600	Takeoff Ground Run (4000 msl / 20 C)	1597.0	1670.0	73.0	0.954
C240T	3600	Takeoff Ground Run (4000 msl / 30 C)	1705.0	1880.0	175.0	0.897
C240T	3600	Takeoff Ground Run (8000 msl / 0 C)	1677.0	1710.0	33.0	0.980
C240T	3600	Takeoff Ground Run (8000 msl / 20 C)	1924.0	2170.0	246.0	0.872
C240T	3600	Takeoff 50 (0 msl / 0 C)	1749.0	1860.0	111.0	0.937
C240T	3600	Takeoff 50 (0 msl / 20 C)	1967.0	1950.0	-17.0	0.991
C240T	3600	Takeoff 50 (0 msl / 30 C)	2083.0	2150.0	67.0	0.968
C240T	3600	Takeoff 50 (4000 msl / 0 C)	2041.0	2030.0	-11.0	0.995
C240T	3600	Takeoff 50 (4000 msl / 20 C)	2296.0	2380.0	84.0	0.963
C240T	3600	Takeoff 50 (4000 msl / 30 C)	2430.0	2650.0	220.0	0.909
C240T	3600	Takeoff 50 (8000 msl / 0 C)	2395.0	2380.0	-15.0	0.994
C240T	3600	Takeoff 50 (8000 msl / 20 C)	2703.0	2970.0	267.0	0.901
C240T	3600	Takeoff KCAS	65.0	77.6	12.6	0.806
C240T	3600	Vx KCAS (0 msl / 0 delta C)	84.0	83.0	-1.0	0.988
C240T	3600	Vy KCAS (0 msl / 30 delta C)	112.0	112.0	0.0	1.000
C240T	3600	Vy KCAS (14000 msl / 0 delta C)	112.0	112.0	0.0	1.000
C240T	3600	Vy KCAS (24000 msl / -20 delta C)	112.0	112.0	0.0	1.000
C240T	3600	Vy FPM (0 msl / -20 delta C)	1645.0	1281.3	-363.7	0.779
C240T	3600	Vy FPM (0 msl / 0 delta C)	1400.0	1287.0	-113.0	0.919
C240T	3600	Vy FPM (0 msl / 30 delta C)	1055.0	1019.2	-35.8	0.966
C240T	3600	Vy FPM (14000 msl / -20 delta C)	1640.0	1310.3	-329.7	0.799
C240T	3600	Vy FPM (14000 msl / 0 delta C)	1380.0	1299.1	-80.9	0.941
C240T	3600	Vy FPM (14000 msl / 30 delta C)	1025.0	959.3	-65.7	0.936
C240T	3600	Vy FPM (24000 msl / -20 delta C)	1215.0	1250.2	35.2	0.971
C240T	3600	Vy FPM (24000 msl / 0 delta C)	975.0	969.1	-5.9	0.994
C240T	3600	Vy FPM (24000 msl / 30 delta C)	645.0	624.7	-20.3	0.968
C240T	3600	55% cruise KTAS (8000 msl / Std Day)	168.0	169.0	1.0	0.994
C240T	3600	55% cruise KTAS (16000 msl / Std Day)	184.0	182.0	-2.0	0.989
C240T	3600	55% cruise KTAS (25000 msl / Std Day)	208.0	194.0	-14.0	0.933
C240T	3600	65% cruise KTAS (8000 msl / Std Day)	179.0	183.0	4.0	0.978

C240T	3600	65% cruise KTAS (16000 msl / Std Day)	196.0	196.0	0.0	1.000
C240T	3600	65% cruise KTAS (25000 msl / Std Day)	218.0	211.0	-7.0	0.968
C240T	3600	75% cruise KTAS (8000 msl / Std Day)	189.0	193.0	4.0	0.979
C240T	3600	75% cruise KTAS (16000 msl / Std Day)	207.0	208.0	1.0	0.995
C240T	3600	75% cruise KTAS (25000 msl / Std Day)	227.0	225.0	-2.0	0.991
C240T	3600	55% cruise FF (8000 msl / Std Day)	14.0	14.6	0.6	0.960
C240T	3600	55% cruise FF (16000 msl / Std Day)	14.0	14.6	0.6	0.960
C240T	3600	55% cruise FF (25000 msl / Std Day)	15.0	14.6	-0.4	0.970
C240T	3600	65% cruise FF (8000 msl / Std Day)	17.0	17.3	0.3	0.980
C240T	3600	65% cruise FF (16000 msl / Std Day)	17.0	17.3	0.3	0.980
C240T	3600	65% cruise FF (25000 msl / Std Day)	18.0	17.3	-0.7	0.963
C240T	3600	75% cruise FF (8000 msl / Std Day)	20.0	20.4	0.4	0.978
C240T	3600	75% cruise FF (16000 msl / Std Day)	20.0	20.4	0.4	0.978
C240T	3600	75% cruise FF (25000 msl / Std Day)	21.0	20.4	-0.6	0.974

-- TLAR PERFORMANCE ACCURACY FOR CA185F -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
CA185F	IO-520D	false	300	2850	82	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
CA185F	2300	Takeoff Ground Run (0 msl / 15 C)	330.0	340.0	10.0	0.970
CA185F	2300	Takeoff Ground Run (2500 msl / 10 C)	395.0	390.0	-5.0	0.987
CA185F	2300	Takeoff Ground Run (7500 msl / 0 C)	565.0	550.0	-15.0	0.973
CA185F	2300	Takeoff 50 (0 msl / 15 C)	785.0	660.0	-125.0	0.841
CA185F	2300	Takeoff 50 (2500 msl / 10 C)	865.0	750.0	-115.0	0.867
CA185F	2300	Takeoff 50 (7500 msl / 0 C)	1090.0	1020.0	-70.0	0.936
CA185F	2300	Vy FPM (0 msl / 15 C)	1815.0	1806.7	-8.3	0.995
CA185F	2300	Vy FPM (5000 msl / 5 C)	1460.0	1454.0	-6.0	0.996
CA185F	2300	Vy FPM (10000 msl / -5 C)	1115.0	1123.0	8.0	0.993
CA185F	2800	Takeoff Ground Run (0 msl / 15 C)	515.0	500.0	-15.0	0.971
CA185F	2800	Takeoff Ground Run (2500 msl / 10 C)	610.0	600.0	-10.0	0.984
CA185F	2800	Takeoff Ground Run (7500 msl / 0 C)	885.0	860.0	-25.0	0.972
CA185F	2800	Takeoff 50 (0 msl / 15 C)	1025.0	930.0	-95.0	0.907
CA185F	2800	Takeoff 50 (2500 msl / 10 C)	1150.0	1100.0	-50.0	0.957
CA185F	2800	Takeoff 50 (7500 msl / 0 C)	1530.0	1540.0	10.0	0.993
CA185F	3350	Stall clean KCAS	56.5	56.5	0.0	1.000
CA185F	3350	Stall partial flaps KCAS	50.4	50.4	0.0	1.000
CA185F	3350	Stall full flaps KCAS	48.7	48.7	-0.0	1.000
CA185F	3350	Takeoff Ground Run (0 msl / 15 C)	770.0	760.0	-10.0	0.987
CA185F	3350	Takeoff Ground Run (2500 msl / 10 C)	930.0	910.0	-20.0	0.978
CA185F	3350	Takeoff Ground Run (7500 msl / 0 C)	1350.0	1380.0	30.0	0.978
CA185F	3350	Takeoff 50 (0 msl / 15 C)	1365.0	1370.0	5.0	0.996
CA185F	3350	Takeoff 50 (2500 msl / 10 C)	1590.0	1610.0	20.0	0.987
CA185F	3350	Takeoff 50 (7500 msl / 0 C)	2325.0	2410.0	85.0	0.963
CA185F	3350	Vx KCAS (0 msl / 0 C)	60.0	65.0	5.0	0.916
CA185F	3350	Vy KCAS (0 msl / 15 C)	88.0	87.0	-1.0	0.989

CA185F	3350	Vy KCAS (5000 msl / 5 C)	82.0	83.0	1.0	0.988
CA185F	3350	Vy KCAS (10000 msl / -5 C)	77.0	79.4	2.4	0.968
CA185F	3350	Vy FPM (0 msl / 15 C)	1045.0	1054.7	9.7	0.991
CA185F	3350	Vy FPM (5000 msl / 5 C)	785.0	788.5	3.5	0.996
CA185F	3350	Vy FPM (10000 msl / -5 C)	515.0	533.7	18.7	0.964
CA185F	3350	55% cruise KTAS (2500 msl / Std Day)	121.7	121.0	-0.7	0.995
CA185F	3350	55% cruise KTAS (7500 msl / Std Day)	126.4	126.0	-0.4	0.997
CA185F	3350	55% cruise KTAS (10000 msl / Std Day)	128.6	129.0	0.4	0.997
CA185F	3350	65% cruise KTAS (2500 msl / Std Day)	131.2	131.0	-0.2	0.998
CA185F	3350	65% cruise KTAS (7500 msl / Std Day)	136.4	138.0	1.6	0.988
CA185F	3350	65% cruise KTAS (10000 msl / Std Day)	139.9	140.0	0.1	0.999
CA185F	3350	75% cruise KTAS (2500 msl / Std Day)	138.2	140.0	1.8	0.987
CA185F	3350	75% cruise KTAS (7500 msl / Std Day)	146.0	142.0	-4.0	0.973
CA185F	3350	55% cruise FF (2500 msl / Std Day)	11.7	11.6	-0.1	0.995
CA185F	3350	55% cruise FF (7500 msl / Std Day)	11.7	11.6	-0.1	0.995
CA185F	3350	55% cruise FF (10000 msl / Std Day)	11.7	11.6	-0.1	0.995
CA185F	3350	65% cruise FF (2500 msl / Std Day)	13.7	13.6	-0.1	0.993
CA185F	3350	65% cruise FF (7500 msl / Std Day)	13.7	13.6	-0.1	0.993
CA185F	3350	65% cruise FF (10000 msl / Std Day)	13.7	13.4	-0.3	0.977
CA185F	3350	75% cruise FF (2500 msl / Std Day)	15.8	15.6	-0.2	0.987
CA185F	3350	75% cruise FF (7500 msl / Std Day)	15.8	14.6	-1.2	0.922
CA185F	3350	Normal approach CAS (1.446 to 1)	70.4	70.4	-0.0	1.000
CA185F	3350	Land roll (0 msl / 15 C)	480.0	470.0	-10.0	0.979
CA185F	3350	Land roll (5000 msl / 5 C)	540.0	540.0	0.0	1.000
CA185F	3350	Land roll (7500 msl / 0 C)	575.0	580.0	5.0	0.991

-- TLAR PERFORMANCE ACCURACY FOR DA40 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
DA40	IO-360-M1A	false	180	2700	74	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
DA40	2205	Stall clean KCAS	55.0	54.8	-0.2	0.996
DA40	2205	Stall partial flaps KCAS	53.0	52.9	-0.1	0.999
DA40	2205	Stall full flaps KCAS	51.0	51.1	0.1	0.998
DA40	2205	Takeoff Ground Run (0 msl / 0 C)	492.1	690.0	197.9	0.598
DA40	2205	Takeoff Ground Run (4000 msl / 15 C)	984.3	1000.0	15.7	0.984
DA40	2205	Takeoff Ground Run (8000 msl / 25 C)	1706.0	1530.0	-176.0	0.897
DA40	2205	Takeoff 50 (0 msl / 0 C)	918.6	1110.0	191.4	0.792
DA40	2205	Takeoff 50 (4000 msl / 15 C)	1443.6	1550.0	106.4	0.926
DA40	2205	Takeoff 50 (8000 msl / 25 C)	2624.7	2300.0	-324.7	0.876
DA40	2205	Takeoff KCAS	60.0	57.2	-2.8	0.953
DA40	2205	Vy KCAS (0 msl / 30 C)	73.0	83.8	10.8	0.852
DA40	2205	Vy FPM (0 msl / -5 C)	1200.0	1169.2	-30.8	0.974
DA40	2205	Vy FPM (4000 msl / 15 C)	720.0	940.4	220.4	0.694
DA40	2205	Vy FPM (8000 msl / 30 C)	295.0	690.6	395.6	-0.341
DA40	2205	Normal approach CAS (1.300 to 1)	65.0	66.5	1.5	0.978
DA40	2205	Land roll (0 msl / 0 C)	721.8	750.0	28.2	0.961
DA40	2205	Land roll (4000 msl / 15 C)	853.0	900.0	47.0	0.945

DA40	2205	Land roll (8000 msl / 30 C)	1115.5	1100.0	-15.5	0.986
DA40	2640	Stall clean KCAS	60.0	59.9	-0.1	0.999
DA40	2640	Stall partial flaps KCAS	58.0	57.9	-0.1	0.999
DA40	2640	Stall full flaps KCAS	56.0	55.9	-0.1	0.999
DA40	2640	Takeoff Ground Run (0 msl / 0 C)	862.9	1080.0	217.1	0.748
DA40	2640	Takeoff Ground Run (4000 msl / 15 C)	1574.8	1540.0	-34.8	0.978
DA40	2640	Takeoff Ground Run (8000 msl / 25 C)	3116.8	2490.0	-626.8	0.799
DA40	2640	Takeoff 50 (0 msl / 0 C)	1312.3	1670.0	357.7	0.727
DA40	2640	Takeoff 50 (4000 msl / 15 C)	2313.0	2330.0	17.0	0.993
DA40	2640	Takeoff 50 (8000 msl / 25 C)	4429.1	3700.0	-729.1	0.835
DA40	2640	Takeoff KCAS	62.0	62.5	0.5	0.991
DA40	2640	Vx KCAS (0 msl / 0 C)	68.0	66.0	-2.0	0.971
DA40	2640	Vy KCAS (0 msl / 30 C)	80.0	86.7	6.7	0.916
DA40	2640	Vy FPM (0 msl / -5 C)	920.0	891.3	-28.7	0.969
DA40	2640	Vy FPM (4000 msl / 15 C)	540.0	687.0	147.0	0.728
DA40	2640	Vy FPM (8000 msl / 30 C)	200.0	463.2	263.2	-0.316
DA40	2640	55% cruise KTAS (2000 msl / Std Day)	113.0	113.0	0.0	1.000
DA40	2640	55% cruise KTAS (6000 msl / Std Day)	118.0	118.0	0.0	1.000
DA40	2640	55% cruise KTAS (10000 msl / Std Day)	122.0	123.0	1.0	0.992
DA40	2640	65% cruise KTAS (2000 msl / Std Day)	123.0	121.0	-2.0	0.984
DA40	2640	65% cruise KTAS (6000 msl / Std Day)	129.0	126.0	-3.0	0.977
DA40	2640	65% cruise KTAS (10000 msl / Std Day)	131.0	130.0	-1.0	0.992
DA40	2640	75% cruise KTAS (2000 msl / Std Day)	132.0	128.0	-4.0	0.970
DA40	2640	75% cruise KTAS (6000 msl / Std Day)	136.0	132.0	-4.0	0.971
DA40	2640	55% cruise FF (2000 msl / Std Day)	7.5	7.5	0.0	1.000
DA40	2640	55% cruise FF (6000 msl / Std Day)	7.5	7.5	0.0	1.000
DA40	2640	55% cruise FF (10000 msl / Std Day)	7.5	7.5	0.0	1.000
DA40	2640	65% cruise FF (2000 msl / Std Day)	8.5	8.5	0.0	1.000
DA40	2640	65% cruise FF (6000 msl / Std Day)	8.5	8.5	0.0	1.000
DA40	2640	65% cruise FF (10000 msl / Std Day)	8.5	8.3	-0.2	0.976
DA40	2640	75% cruise FF (2000 msl / Std Day)	9.5	9.5	0.0	1.000
DA40	2640	75% cruise FF (6000 msl / Std Day)	9.5	9.3	-0.2	0.976
DA40	2640	Normal approach CAS (1.300 to 1)	73.0	72.7	-0.3	0.996
DA40	2640	Land roll (0 msl / 0 C)	853.0	890.0	37.0	0.957
DA40	2640	Land roll (4000 msl / 15 C)	1148.3	1070.0	-78.3	0.932
DA40	2640	Land roll (8000 msl / 30 C)	1378.0	1310.0	-68.0	0.951

-- TLAR PERFORMANCE ACCURACY FOR FX2 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
FX2	CC340	false	180	2700	80	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
FX2	1304	Stall full flaps KCAS	31.3	31.7	0.4	0.988
FX2	1304	Takeoff Ground Run (0 msl / 15 C)	110.0	110.0	0.0	1.000

FX2	1304	Vx KCAS (0 msl / 15 C)	43.4	50.0	6.6	0.849
FX2	1304	Vy KCAS (0 msl / 15 C)	61.7	54.0	-7.7	0.875
FX2	1304	Vy FPM (0 msl / 15 C)	2000.0	2007.8	7.8	0.996
FX2	1304	75% cruise KTAS (0 msl / Std Day)	95.6	98.0	2.4	0.975
FX2	1304	Normal approach CAS (1.300 to 1)	40.7	41.2	0.5	0.988
FX2	1304	Land roll (0 msl / 15 C)	140.0	140.0	0.0	1.000

-- TLAR PERFORMANCE ACCURACY FOR FX3 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
FX3	CC363I	false	186	2700	80	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
FX3	1345	Stall full flaps KCAS	32.2	32.2	0.0	1.000
FX3	1345	Takeoff Ground Run (0 msl / 15 C)	90.0	90.0	0.0	1.000
FX3	1345	Vx KCAS (0 msl / 15 C)	49.5	50.0	0.5	0.990
FX3	1345	Vy KCAS (0 msl / 15 C)	61.7	64.0	2.3	0.962
FX3	1345	Vy FPM (0 msl / 15 C)	2400.0	2380.6	-19.4	0.992
FX3	1345	75% cruise KTAS (0 msl / Std Day)	117.3	117.0	-0.3	0.997
FX3	1345	Normal approach CAS (1.300 to 1)	41.8	41.8	0.0	1.000
FX3	1345	Land roll (0 msl / 15 C)	155.0	160.0	5.0	0.968

-- TLAR PERFORMANCE ACCURACY FOR GLSP -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
GLSP	IO-390B	false	210	2700	74	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
GLSP	1750	Takeoff KCAS	51.6	51.6	0.0	0.999
GLSP	1750	Vy FPM (0 msl / 15 C)	1624.0	1624.2	0.2	1.000
GLSP	1750	65% cruise KTAS (8000 msl / Std Day)	128.0	128.0	0.0	1.000
GLSP	1750	75% cruise KTAS (8000 msl / Std Day)	134.0	134.0	0.0	1.000
GLSP	1750	65% cruise FF (8000 msl / Std Day)	9.2	9.2	0.0	0.996
GLSP	1750	75% cruise FF (8000 msl / Std Day)	10.5	10.4	-0.1	0.988
GLSP	1750	Land roll (0 msl / 15 C)	430.0	430.0	0.0	1.000
GLSP	2350	Stall clean KCAS	57.8	57.8	-0.0	1.000
GLSP	2350	Stall partial flaps KCAS	50.8	50.7	-0.1	0.999
GLSP	2350	Stall full flaps KCAS	46.7	46.7	-0.0	0.999
GLSP	2350	Takeoff Ground Run (0 msl / 15 C)	800.0	800.0	0.0	1.000
GLSP	2350	Takeoff 50 (0 msl / 15 C)	1450.0	1560.0	110.0	0.924
GLSP	2350	Takeoff KCAS	59.8	59.8	0.0	1.000
GLSP	2350	Vx KCAS (0 msl / 0 C)	64.4	64.0	-0.4	0.994
GLSP	2350	Vy KCAS (0 msl / 15 C)	81.3	82.0	0.7	0.991
GLSP	2350	Vy FPM (0 msl / 15 C)	1086.0	1086.3	0.3	1.000
GLSP	2350	65% cruise KTAS (8000 msl / Std Day)	125.0	125.0	0.0	1.000

GLSP	2350	75% cruise KTAS (8000 msl / Std Day)	131.0	131.0	0.0	1.000
GLSP	2350	65% cruise FF (8000 msl / Std Day)	9.2	9.2	0.0	0.996
GLSP	2350	75% cruise FF (8000 msl / Std Day)	10.5	10.4	-0.1	0.988
GLSP	2350	Normal approach CAS (1.400 to 1)	65.4	65.3	-0.1	0.999
GLSP	2350	Land roll (0 msl / 15 C)	560.0	560.0	0.0	1.000

-- TLAR PERFORMANCE ACCURACY FOR GLST -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
GLST	O-320h2ad	false	160	2700	74	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
GLST	1960	Stall clean KCAS	52.0	52.0	-0.0	1.000
GLST	1960	Stall partial flaps KCAS	45.0	45.0	0.0	1.000
GLST	1960	Stall full flaps KCAS	43.0	43.0	0.0	1.000
GLST	1960	Takeoff Ground Run (0 msl / 0 C)	617.0	720.0	103.0	0.833
GLST	1960	Takeoff Ground Run (0 msl / 20 C)	712.0	740.0	28.0	0.961
GLST	1960	Takeoff Ground Run (0 msl / 40 C)	794.0	830.0	36.0	0.955
GLST	1960	Takeoff Ground Run (4000 msl / 0 C)	892.0	920.0	28.0	0.969
GLST	1960	Takeoff Ground Run (4000 msl / 20 C)	1056.0	1030.0	-26.0	0.975
GLST	1960	Takeoff Ground Run (4000 msl / 40 C)	1211.0	1170.0	-41.0	0.966
GLST	1960	Takeoff Ground Run (8000 msl / 0 C)	1293.0	1320.0	27.0	0.979
GLST	1960	Takeoff Ground Run (8000 msl / 20 C)	1565.0	1510.0	-55.0	0.965
GLST	1960	Takeoff Ground Run (8000 msl / 40 C)	1824.0	1730.0	-94.0	0.948
GLST	1960	Takeoff 50 (0 msl / 0 C)	1198.0	1540.0	342.0	0.715
GLST	1960	Takeoff 50 (0 msl / 20 C)	1342.0	1570.0	228.0	0.830
GLST	1960	Takeoff 50 (0 msl / 40 C)	1467.0	1690.0	223.0	0.848
GLST	1960	Takeoff 50 (4000 msl / 0 C)	1778.0	1900.0	122.0	0.931
GLST	1960	Takeoff 50 (4000 msl / 20 C)	2103.0	2070.0	-33.0	0.984
GLST	1960	Takeoff 50 (4000 msl / 40 C)	2418.0	2260.0	-158.0	0.935
GLST	1960	Takeoff 50 (8000 msl / 0 C)	2631.0	2600.0	-31.0	0.988
GLST	1960	Takeoff 50 (8000 msl / 20 C)	3219.0	2900.0	-319.0	0.901
GLST	1960	Takeoff 50 (8000 msl / 40 C)	3812.0	3220.0	-592.0	0.845
GLST	1960	Vx KCAS (0 msl / 0 C)	65.0	56.0	-9.0	0.862
GLST	1960	Vy KCAS (0 msl / 15 C)	78.0	82.0	4.0	0.949
GLST	1960	Vy FPM (0 msl / 15 C)	1120.0	1015.4	-104.6	0.907
GLST	1960	65% cruise KTAS (6000 msl / Std Day)	122.0	124.0	2.0	0.984
GLST	1960	75% cruise KTAS (6000 msl / Std Day)	129.0	129.0	0.0	1.000
GLST	1960	65% cruise FF (6000 msl / Std Day)	7.6	8.0	0.4	0.947
GLST	1960	75% cruise FF (6000 msl / Std Day)	8.7	9.4	0.7	0.921
GLST	1960	Normal approach CAS (1.354 to 1)	55.9	58.2	2.3	0.958
GLST	1960	Land roll (0 msl / 15 C)	430.0	460.0	30.0	0.930

-- TLAR PERFORMANCE ACCURACY FOR HROC2 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter
HROC2	IO-540HO	false	330	2700	82

Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
HROC2	100	Land roll (0 msl / 15 C)	350.0	350.0	0.0	1.000
HROC2	2000	Stall full flaps KCAS	47.8	56.2	8.4	0.825
HROC2	2000	Takeoff Ground Run (0 msl / 15 C)	500.0	480.0	-20.0	0.960
HROC2	2000	Vy FPM (0 msl / 15 C)	3100.0	3252.6	152.6	0.951
HROC2	2000	55% cruise KTAS (8000 msl / Std Day)	186.8	183.0	-3.8	0.980
HROC2	2000	75% cruise KTAS (8000 msl / Std Day)	199.9	199.0	-0.9	0.996
HROC2	2000	Normal approach CAS (1.300 to 1)	65.5	73.0	7.5	0.885
HROC2	2000	Land roll (0 msl / 15 C)	500.0	590.0	90.0	0.820

-- TLAR PERFORMANCE ACCURACY FOR J3 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter
J3	A-65	false	65	2300	74

Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
J3	1220	Stall clean KCAS	33.0	38.4	5.4	0.837
J3	1220	Takeoff Ground Run (0 msl / 15 C)	370.0	370.0	0.0	1.000
J3	1220	Takeoff 50 (0 msl / 15 C)	1000.0	1000.0	0.0	1.000
J3	1220	Takeoff KCAS	33.9	40.3	6.5	0.809
J3	1220	Vx KCAS (0 msl / 15 C)	37.4	43.0	5.6	0.849
J3	1220	Vy KCAS (0 msl / 15 C)	43.4	49.0	5.6	0.872
J3	1220	Vy FPM (0 msl / 15 C)	450.0	445.4	-4.6	0.990
J3	1220	75% cruise KTAS (0 msl / Std Day)	73.0	73.0	0.0	1.000
J3	1220	75% cruise FF (0 msl / Std Day)	4.5	4.3	-0.2	0.967
J3	1220	Normal approach CAS (1.200 to 1)	42.9	46.1	3.1	0.927
J3	1220	Land roll (0 msl / 15 C)	290.0	290.0	0.0	1.000

-- TLAR PERFORMANCE ACCURACY FOR K7SS -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter
K7SS	R914	true	115	2550	80

Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
K7SS	1550	Stall clean KCAS	42.1	42.1	0.0	1.000
K7SS	1550	Stall partial flaps KCAS	33.0	38.0	5.0	0.848
K7SS	1550	Stall full flaps KCAS	36.5	36.5	0.0	1.000
K7SS	1550	Takeoff Ground Run (0 msl / 15 C)	290.0	350.0	60.0	0.793
K7SS	1550	Vy FPM (0 msl / 15 C)	1000.0	1083.1	83.1	0.917
K7SS	1550	75% cruise KTAS (0 msl / Std Day)	106.9	99.0	-7.9	0.926
K7SS	1550	Normal approach CAS (1.300 to 1)	47.5	47.5	-0.0	0.999
K7SS	1550	Land roll (0 msl / 15 C)	290.0	290.0	0.0	1.000

-- TLAR PERFORMANCE ACCURACY FOR K7STI -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
K7STI	CC340	false	180	2700	80	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
K7STI	1550	Stall clean KCAS	34.0	38.5	4.5	0.868
K7STI	1550	Stall partial flaps KCAS	33.0	35.0	2.0	0.939
K7STI	1550	Stall full flaps KCAS	27.8	33.0	5.2	0.812
K7STI	1550	Takeoff Ground Run (0 msl / 15 C)	150.0	160.0	10.0	0.933
K7STI	1550	Takeoff 50 (0 msl / 15 C)	350.0	350.0	0.0	1.000
K7STI	1550	Vy FPM (0 msl / 15 C)	1800.0	1777.0	-23.0	0.987
K7STI	1550	75% cruise KTAS (0 msl / Std Day)	106.9	103.0	-3.9	0.964
K7STI	1550	Normal approach CAS (1.300 to 1)	36.1	42.9	6.8	0.812
K7STI	1550	Land roll (0 msl / 15 C)	175.0	250.0	75.0	0.571

-- TLAR PERFORMANCE ACCURACY FOR L39 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
L39	AI25L	false	3792	2700	75	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
L39	8378	Takeoff Ground Run (0 msl / 0 C)	1082.7	1090.0	7.3	0.993
L39	8378	Takeoff Ground Run (0 msl / 35 C)	1312.3	1420.0	107.7	0.918
L39	8378	Takeoff Ground Run (6562 msl / 0 C)	1607.6	1840.0	232.4	0.855
L39	8378	Takeoff Ground Run (6562 msl / 35 C)	2624.7	2510.0	-114.7	0.956
L39	8378	Takeoff 50 (0 msl / 0 C)	2198.2	2460.0	261.8	0.881
L39	8378	Takeoff 50 (0 msl / 35 C)	2624.7	3000.0	375.3	0.857
L39	8378	Takeoff 50 (6562 msl / 0 C)	3280.8	3670.0	389.2	0.881
L39	8378	Takeoff 50 (6562 msl / 35 C)	5249.3	4690.0	-559.3	0.893
L39	8378	Takeoff KCAS	92.9	94.9	2.0	0.979
L39	8378	Normal approach CAS (1.300 to 1)	107.5	107.2	-0.3	0.998
L39	8378	Land roll (0 msl / 0 C)	1624.0	1740.0	116.0	0.929
L39	8378	Land roll (0 msl / 15 C)	1656.8	1830.0	173.2	0.895
L39	8378	Land roll (0 msl / 35 C)	1804.5	1950.0	145.5	0.919
L39	8378	Land roll (6562 msl / 0 C)	2198.2	2190.0	-8.2	0.996
L39	8378	Land roll (6562 msl / 15 C)	2296.6	2310.0	13.4	0.994
L39	8378	Land roll (6562 msl / 35 C)	2624.7	2480.0	-144.7	0.945
L39	8818	Takeoff KCAS	96.7	97.3	0.7	0.993
L39	8818	Vy FPM (0 msl / 15 C)	4330.7	5793.6	1462.9	0.662
L39	8818	Vy FPM (19685 msl / -24 C)	2126.0	2476.2	350.2	0.835
L39	10141	Stall clean KCAS	106.4	106.4	0.0	1.000
L39	10141	Stall partial flaps KCAS	97.2	97.2	0.0	1.000
L39	10141	Stall full flaps KCAS	90.7	90.7	0.0	1.000

L39	10141	Takeoff Ground Run (0 msl / 0 C)	1706.0	1850.0	144.0	0.916
L39	10141	Takeoff Ground Run (0 msl / 35 C)	2198.2	2180.0	-18.2	0.992
L39	10141	Takeoff Ground Run (6562 msl / 0 C)	2624.7	2890.0	265.3	0.899
L39	10141	Takeoff Ground Run (6562 msl / 35 C)	4199.5	4060.0	-139.5	0.967
L39	10141	Takeoff 50 (0 msl / 0 C)	3444.9	3690.0	245.1	0.929
L39	10141	Takeoff 50 (0 msl / 35 C)	4429.1	4200.0	-229.1	0.948
L39	10141	Takeoff 50 (6562 msl / 0 C)	5249.3	5260.0	10.7	0.998
L39	10141	Takeoff 50 (6562 msl / 35 C)	8366.1	6950.0	-1416.1	0.831
L39	10141	Takeoff KCAS	102.6	104.4	1.8	0.983
L39	10141	Vy FPM (0 msl / 15 C)	4330.7	4896.6	565.9	0.869
L39	10141	Vy FPM (19685 msl / -24 C)	2126.0	1912.7	-213.3	0.900
L39	10141	75% cruise KTAS (19685 msl / Std Day)	297.0	0.0	-297.0	0.000
L39	10141	75% cruise FF (19685 msl / Std Day)	145.0	145.8	0.8	0.994
L39	10141	Normal approach CAS (1.300 to 1)	118.3	117.9	-0.3	0.997
L39	10141	Land roll (0 msl / 0 C)	1968.5	2090.0	121.5	0.938
L39	10141	Land roll (0 msl / 15 C)	1984.9	2190.0	205.1	0.897
L39	10141	Land roll (0 msl / 35 C)	2132.5	2350.0	217.5	0.898
L39	10141	Land roll (6562 msl / 0 C)	2624.7	2630.0	5.3	0.998
L39	10141	Land roll (6562 msl / 15 C)	2919.9	2770.0	-149.9	0.949
L39	10141	Land roll (6562 msl / 35 C)	3248.0	2980.0	-268.0	0.917

-- TLAR PERFORMANCE ACCURACY FOR M20F -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
M20F	IO-360AIA	false	200	2700	74	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
M20F	2300	Takeoff Ground Run (0 msl / 15 C)	595.0	590.0	-5.0	0.992
M20F	2300	Takeoff Ground Run (2500 msl / 10 C)	730.0	710.0	-20.0	0.973
M20F	2300	Takeoff Ground Run (5000 msl / 5 C)	900.0	870.0	-30.0	0.967
M20F	2300	Takeoff 50 (0 msl / 15 C)	1020.0	970.0	-50.0	0.951
M20F	2300	Takeoff 50 (2500 msl / 10 C)	1235.0	1140.0	-95.0	0.923
M20F	2300	Takeoff 50 (5000 msl / 5 C)	1515.0	1360.0	-155.0	0.898
M20F	2300	Takeoff KCAS	56.5	60.1	3.6	0.936
M20F	2300	Vy FPM (0 msl / 15 C)	1340.0	1302.8	-37.2	0.972
M20F	2300	Vy FPM (6000 msl / 3 C)	1000.0	980.5	-19.5	0.981
M20F	2300	Vy FPM (14000 msl / -13 C)	580.0	578.1	-1.9	0.997
M20F	2300	55% cruise KTAS (2500 msl / Std Day)	132.0	137.0	5.0	0.962
M20F	2300	55% cruise KTAS (5000 msl / Std Day)	143.0	140.0	-3.0	0.979
M20F	2300	55% cruise KTAS (10000 msl / Std Day)	146.0	147.0	1.0	0.993
M20F	2300	65% cruise KTAS (2500 msl / Std Day)	140.0	146.0	6.0	0.957
M20F	2300	65% cruise KTAS (5000 msl / Std Day)	153.0	150.0	-3.0	0.980
M20F	2300	65% cruise KTAS (10000 msl / Std Day)	157.0	156.0	-1.0	0.994
M20F	2300	75% cruise KTAS (2500 msl / Std Day)	151.0	155.0	4.0	0.974
M20F	2300	75% cruise KTAS (5000 msl / Std Day)	156.0	158.0	2.0	0.987
M20F	2300	55% cruise FF (2500 msl / Std Day)	8.3	8.3	0.0	0.996
M20F	2300	55% cruise FF (5000 msl / Std Day)	8.3	8.3	0.0	0.996
M20F	2300	55% cruise FF (10000 msl / Std Day)	8.3	8.3	0.0	0.996
M20F	2300	65% cruise FF (2500 msl / Std Day)	9.4	10.0	0.6	0.936

M20F	2300	65% cruise FF (5000 msl / Std Day)	9.4	10.0	0.6	0.936
M20F	2300	65% cruise FF (10000 msl / Std Day)	9.7	9.8	0.1	0.990
M20F	2300	75% cruise FF (2500 msl / Std Day)	10.8	12.0	1.2	0.889
M20F	2300	75% cruise FF (5000 msl / Std Day)	11.2	12.0	0.8	0.929
M20F	2300	Land roll (0 msl / 15 C)	640.0	670.0	30.0	0.953
M20F	2300	Land roll (5000 msl / 5 C)	740.0	770.0	30.0	0.959
M20F	2300	Land roll (7500 msl / 0 C)	800.0	830.0	30.0	0.963
M20F	2740	Stall clean KCAS	59.1	59.1	0.0	1.000
M20F	2740	Stall partial flaps KCAS	55.6	55.6	-0.0	1.000
M20F	2740	Stall full flaps KCAS	53.9	53.9	0.0	1.000
M20F	2740	Takeoff Ground Run (0 msl / 15 C)	880.0	910.0	30.0	0.966
M20F	2740	Takeoff Ground Run (2500 msl / 10 C)	1085.0	1120.0	35.0	0.968
M20F	2740	Takeoff Ground Run (5000 msl / 5 C)	1320.0	1400.0	80.0	0.939
M20F	2740	Takeoff 50 (0 msl / 15 C)	1385.0	1410.0	25.0	0.982
M20F	2740	Takeoff 50 (2500 msl / 10 C)	1650.0	1690.0	40.0	0.976
M20F	2740	Takeoff 50 (5000 msl / 5 C)	2050.0	2060.0	10.0	0.995
M20F	2740	Takeoff KCAS	65.2	65.6	0.4	0.994
M20F	2740	Vx KCAS (0 msl / 5 C)	81.7	66.0	-15.7	0.808
M20F	2740	Vy KCAS (0 msl / 15 C)	97.3	97.0	-0.3	0.997
M20F	2740	Vy KCAS (6000 msl / 3 C)	92.1	91.3	-0.8	0.991
M20F	2740	Vy KCAS (14000 msl / -13 C)	84.3	90.8	6.5	0.923
M20F	2740	Vy FPM (0 msl / 15 C)	1070.0	1014.8	-55.2	0.948
M20F	2740	Vy FPM (6000 msl / 3 C)	745.0	730.2	-14.8	0.980
M20F	2740	Vy FPM (14000 msl / -13 C)	300.0	361.6	61.6	0.795
M20F	2740	55% cruise KTAS (2500 msl / Std Day)	127.0	133.0	6.0	0.953
M20F	2740	55% cruise KTAS (5000 msl / Std Day)	138.0	136.0	-2.0	0.986
M20F	2740	55% cruise KTAS (10000 msl / Std Day)	141.0	142.0	1.0	0.993
M20F	2740	65% cruise KTAS (2500 msl / Std Day)	135.0	144.0	9.0	0.933
M20F	2740	65% cruise KTAS (5000 msl / Std Day)	148.0	147.0	-1.0	0.993
M20F	2740	65% cruise KTAS (10000 msl / Std Day)	152.0	152.0	0.0	1.000
M20F	2740	75% cruise KTAS (2500 msl / Std Day)	146.0	153.0	7.0	0.952
M20F	2740	75% cruise KTAS (5000 msl / Std Day)	151.0	156.0	5.0	0.967
M20F	2740	75% cruise KTAS (10000 msl / Std Day)	161.0	161.0	0.0	1.000
M20F	2740	55% cruise FF (2500 msl / Std Day)	8.3	8.3	0.0	0.996
M20F	2740	55% cruise FF (5000 msl / Std Day)	8.3	8.3	0.0	0.996
M20F	2740	55% cruise FF (10000 msl / Std Day)	8.3	8.3	0.0	0.996
M20F	2740	65% cruise FF (2500 msl / Std Day)	9.4	10.0	0.6	0.936
M20F	2740	65% cruise FF (5000 msl / Std Day)	9.4	10.0	0.6	0.936
M20F	2740	65% cruise FF (10000 msl / Std Day)	9.7	9.8	0.1	0.990
M20F	2740	75% cruise FF (2500 msl / Std Day)	10.8	12.0	1.2	0.889
M20F	2740	75% cruise FF (5000 msl / Std Day)	11.2	12.0	0.8	0.929
M20F	2740	75% cruise FF (10000 msl / Std Day)	11.1	11.1	0.0	1.000
M20F	2740	Normal approach CAS (1.300 to 1)	70.0	70.0	0.0	1.000
M20F	2740	Land roll (0 msl / 15 C)	785.0	790.0	5.0	0.994
M20F	2740	Land roll (5000 msl / 5 C)	910.0	910.0	0.0	1.000
M20F	2740	Land roll (7500 msl / 0 C)	990.0	970.0	-20.0	0.980

-- TLAR PERFORMANCE ACCURACY FOR PA18 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
PA18	O-320	false	150	2700	74	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
PA18	1750	Stall full flaps KCAS	37.4	37.4	0.0	0.999
PA18	1750	Takeoff Ground Run (0 msl / 15 C)	200.0	210.0	10.0	0.950
PA18	1750	Takeoff 50 (0 msl / 15 C)	500.0	540.0	40.0	0.920
PA18	1750	Vx KCAS (0 msl / 15 C)	39.1	44.0	4.9	0.875
PA18	1750	Vy KCAS (0 msl / 15 C)	65.2	60.0	-5.2	0.921
PA18	1750	Vy FPM (0 msl / 15 C)	960.0	941.7	-18.3	0.981
PA18	1750	55% cruise KTAS (0 msl / Std Day)	86.9	86.0	-0.9	0.990
PA18	1750	75% cruise KTAS (0 msl / Std Day)	99.9	101.0	1.1	0.989
PA18	1750	55% cruise FF (0 msl / Std Day)	6.5	6.7	0.2	0.973
PA18	1750	75% cruise FF (0 msl / Std Day)	9.0	8.9	-0.1	0.989
PA18	1750	Normal approach CAS (1.300 to 1)	48.6	48.6	0.0	0.999
PA18	1750	Land roll (0 msl / 15 C)	350.0	350.0	0.0	1.000

-- TLAR PERFORMANCE ACCURACY FOR PA22 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
PA22	O-320	false	150	2700	74	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
PA22	2000	Stall clean KCAS	54.2	54.2	0.0	1.000
PA22	2000	Stall full flaps KCAS	48.7	48.7	0.0	1.000
PA22	2000	Takeoff Ground Run (0 msl / 15 C)	1220.0	980.0	-240.0	0.803
PA22	2000	Takeoff 50 (0 msl / 15 C)	1600.0	1600.0	0.0	1.000
PA22	2000	Takeoff KCAS	57.4	60.4	3.1	0.947
PA22	2000	Vx KCAS (0 msl / 15 C)	60.8	61.0	0.2	0.997
PA22	2000	Vy KCAS (0 msl / 15 C)	73.0	76.0	3.0	0.959
PA22	2000	Vy FPM (0 msl / 15 C)	725.0	663.7	-61.3	0.915
PA22	2000	75% cruise KTAS (0 msl / Std Day)	106.9	106.0	-0.9	0.992
PA22	2000	75% cruise KTAS (7000 msl / Std Day)	114.7	110.0	-4.7	0.959
PA22	2000	75% cruise FF (0 msl / Std Day)	9.0	9.0	0.0	1.000
PA22	2000	75% cruise FF (7000 msl / Std Day)	9.0	8.8	-0.2	0.983
PA22	2000	Normal approach CAS (1.300 to 1)	58.2	63.3	5.0	0.913
PA22	2000	Land roll (0 msl / 15 C)	500.0	500.0	0.0	1.000

-- TLAR PERFORMANCE ACCURACY FOR PA24250 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter
PA24250	O-540A	false	250	2575	77

Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
PA24250	2200	Vy FPM (0 msl / 15 C)	1850.0	1891.5	41.5	0.978
PA24250	2200	Vy FPM (8000 msl / 0 C)	1400.0	1321.6	-78.4	0.944
PA24250	2200	Vy FPM (16000 msl / -16 C)	850.0	795.2	-54.8	0.935
PA24250	2500	Stall clean KCAS	57.0	57.3	0.3	0.995
PA24250	2500	Stall partial flaps KCAS	54.0	54.1	0.1	0.999
PA24250	2500	Stall full flaps KCAS	51.0	50.8	-0.2	0.997
PA24250	2500	Takeoff Ground Run (0 msl / 5 C)	760.0	800.0	40.0	0.947
PA24250	2500	Takeoff Ground Run (2000 msl / 10 C)	950.0	930.0	-20.0	0.979
PA24250	2500	Takeoff Ground Run (4000 msl / 15 C)	1140.0	1120.0	-20.0	0.982
PA24250	2500	Takeoff 50 (0 msl / 5 C)	1150.0	1260.0	110.0	0.904
PA24250	2500	Takeoff 50 (2000 msl / 10 C)	1500.0	1460.0	-40.0	0.973
PA24250	2500	Takeoff 50 (4000 msl / 15 C)	1750.0	1740.0	-10.0	0.994
PA24250	2500	Takeoff KCAS	66.3	66.4	0.1	0.999
PA24250	2500	Normal approach CAS (1.300 to 1)	66.3	66.1	-0.2	0.997
PA24250	2500	Land roll (0 msl / 5 C)	740.0	770.0	30.0	0.959
PA24250	2500	Land roll (2000 msl / 10 C)	830.0	840.0	10.0	0.988
PA24250	2500	Land roll (4000 msl / 15 C)	920.0	920.0	0.0	1.000
PA24250	2900	Stall clean KCAS	61.7	61.7	0.0	1.000
PA24250	2900	Stall partial flaps KCAS	58.2	58.2	-0.0	1.000
PA24250	2900	Stall full flaps KCAS	54.7	54.7	0.0	1.000
PA24250	2900	Takeoff Ground Run (0 msl / 5 C)	1100.0	1130.0	30.0	0.973
PA24250	2900	Takeoff Ground Run (2000 msl / 10 C)	1310.0	1280.0	-30.0	0.977
PA24250	2900	Takeoff Ground Run (4000 msl / 15 C)	1580.0	1560.0	-20.0	0.987
PA24250	2900	Takeoff 50 (0 msl / 5 C)	1550.0	1750.0	200.0	0.871
PA24250	2900	Takeoff 50 (2000 msl / 10 C)	1900.0	1980.0	80.0	0.958
PA24250	2900	Takeoff 50 (4000 msl / 15 C)	2500.0	2400.0	-100.0	0.960
PA24250	2900	Takeoff KCAS	71.2	71.5	0.3	0.996
PA24250	2900	Vx KCAS (0 msl / 5 C)	74.0	72.0	-2.0	0.973
PA24250	2900	Vy KCAS (0 msl / 15 C)	92.0	93.0	1.0	0.989
PA24250	2900	Vy KCAS (8000 msl / 0 C)	87.0	93.0	6.0	0.931
PA24250	2900	Vy KCAS (16000 msl / -16 C)	83.0	92.3	9.3	0.889
PA24250	2900	Vy FPM (0 msl / 15 C)	1350.0	1306.4	-43.6	0.968
PA24250	2900	Vy FPM (8000 msl / 0 C)	850.0	825.5	-24.5	0.971
PA24250	2900	Vy FPM (16000 msl / -16 C)	350.0	373.0	23.0	0.934
PA24250	2900	55% cruise KTAS (0 msl / Std Day)	133.0	130.0	-3.0	0.978
PA24250	2900	55% cruise KTAS (7000 msl / Std Day)	137.3	139.0	1.7	0.988
PA24250	2900	55% cruise KTAS (10000 msl / Std Day)	139.0	142.0	3.0	0.979
PA24250	2900	65% cruise KTAS (0 msl / Std Day)	142.5	140.0	-2.5	0.982
PA24250	2900	65% cruise KTAS (7000 msl / Std Day)	149.5	149.0	-0.5	0.997
PA24250	2900	65% cruise KTAS (10000 msl / Std Day)	152.9	154.0	1.1	0.993
PA24250	2900	75% cruise KTAS (0 msl / Std Day)	148.6	148.0	-0.6	0.996
PA24250	2900	75% cruise KTAS (7000 msl / Std Day)	157.3	157.0	-0.3	0.998
PA24250	2900	55% cruise FF (0 msl / Std Day)	10.3	10.3	0.0	1.000
PA24250	2900	55% cruise FF (7000 msl / Std Day)	10.3	10.3	0.0	1.000
PA24250	2900	55% cruise FF (10000 msl / Std Day)	10.3	10.3	0.0	1.000
PA24250	2900	65% cruise FF (0 msl / Std Day)	12.3	12.3	0.0	1.000

PA24250	2900	65% cruise FF (7000 msl / Std Day)	12.3	12.3	0.0	1.000
PA24250	2900	65% cruise FF (10000 msl / Std Day)	12.3	12.3	0.0	1.000
PA24250	2900	75% cruise FF (0 msl / Std Day)	14.0	14.0	0.0	1.000
PA24250	2900	75% cruise FF (7000 msl / Std Day)	14.0	13.8	-0.2	0.983
PA24250	2900	Normal approach CAS (1.300 to 1)	71.2	71.2	0.0	1.000
PA24250	2900	Land roll (0 msl / 5 C)	880.0	890.0	10.0	0.989
PA24250	2900	Land roll (2000 msl / 10 C)	950.0	970.0	20.0	0.979
PA24250	2900	Land roll (4000 msl / 15 C)	1050.0	1050.0	0.0	1.000

-- TLAR PERFORMANCE ACCURACY FOR PA24260 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
PA24260	IO-540D	false	260	2700	77	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
PA24260	2500	Stall clean KCAS	58.2	58.5	0.3	0.995
PA24260	2500	Stall partial flaps KCAS	54.7	55.4	0.7	0.988
PA24260	2500	Stall full flaps KCAS	51.3	52.3	1.0	0.980
PA24260	2500	Takeoff Ground Run (0 msl / -7 C)	680.0	680.0	0.0	1.000
PA24260	2500	Takeoff Ground Run (4000 msl / 8 C)	1000.0	990.0	-10.0	0.990
PA24260	2500	Takeoff Ground Run (8000 msl / 27 C)	1500.0	1570.0	70.0	0.953
PA24260	2500	Takeoff 50 (0 msl / -7 C)	950.0	1100.0	150.0	0.842
PA24260	2500	Takeoff 50 (4000 msl / 8 C)	1450.0	1550.0	100.0	0.931
PA24260	2500	Takeoff 50 (8000 msl / 27 C)	3000.0	2330.0	-670.0	0.777
PA24260	2500	Takeoff KCAS	65.7	66.9	1.2	0.982
PA24260	2500	Vy FPM (0 msl / 15 C)	1850.0	1637.1	-212.9	0.885
PA24260	2500	Vy FPM (8000 msl / 0 C)	1200.0	1093.2	-106.8	0.911
PA24260	2500	Vy FPM (16000 msl / -16 C)	550.0	611.6	61.6	0.888
PA24260	2500	Normal approach CAS (1.300 to 1)	66.7	68.0	1.3	0.980
PA24260	2500	Land roll (0 msl / -7 C)	720.0	760.0	40.0	0.944
PA24260	2500	Land roll (4000 msl / 7 C)	900.0	900.0	0.0	1.000
PA24260	2500	Land roll (8000 msl / 27 C)	1100.0	1120.0	20.0	0.982
PA24260	2900	Normal approach CAS (1.300 to 1)	72.3	73.2	0.9	0.987
PA24260	2900	Land roll (0 msl / -7 C)	850.0	870.0	20.0	0.976
PA24260	2900	Land roll (4000 msl / 7 C)	1050.0	1040.0	-10.0	0.990
PA24260	2900	Land roll (8000 msl / 27 C)	1280.0	1290.0	10.0	0.992
PA24260	3100	Stall clean KCAS	65.2	65.2	0.0	1.000
PA24260	3100	Stall partial flaps KCAS	61.7	61.7	0.0	1.000
PA24260	3100	Stall full flaps KCAS	58.2	58.2	0.0	1.000
PA24260	3100	Takeoff Ground Run (0 msl / -7 C)	1150.0	1200.0	50.0	0.957
PA24260	3100	Takeoff Ground Run (4000 msl / 8 C)	1650.0	1620.0	-30.0	0.982
PA24260	3100	Takeoff Ground Run (8000 msl / 27 C)	2500.0	2730.0	230.0	0.908
PA24260	3100	Takeoff 50 (0 msl / -7 C)	1500.0	1870.0	370.0	0.753
PA24260	3100	Takeoff 50 (4000 msl / 8 C)	2400.0	2410.0	10.0	0.996
PA24260	3100	Takeoff 50 (8000 msl / 27 C)	5500.0	4020.0	-1480.0	0.731
PA24260	3100	Takeoff KCAS	74.0	74.5	0.5	0.994
PA24260	3100	Vx KCAS (0 msl / -7 C)	75.6	75.0	-0.6	0.992

PA24260	3100	Vy KCAS (0 msl / 15 C)	96.5	101.0	4.6	0.953
PA24260	3100	Vy KCAS (8000 msl / 0 C)	92.1	88.7	-3.5	0.963
PA24260	3100	Vy KCAS (16000 msl / -16 C)	87.8	75.4	-12.4	0.859
PA24260	3100	Vy FPM (0 msl / 15 C)	1350.0	1190.8	-159.2	0.882
PA24260	3100	Vy FPM (8000 msl / 0 C)	850.0	733.5	-116.5	0.863
PA24260	3100	Vy FPM (16000 msl / -16 C)	350.0	300.3	-49.7	0.858
PA24260	3100	55% cruise KTAS (0 msl / Std Day)	129.5	131.0	1.5	0.988
PA24260	3100	55% cruise KTAS (7500 msl / Std Day)	134.7	140.0	5.3	0.961
PA24260	3100	55% cruise KTAS (11500 msl / Std Day)	138.2	145.0	6.8	0.951
PA24260	3100	65% cruise KTAS (0 msl / Std Day)	139.9	141.0	1.1	0.992
PA24260	3100	65% cruise KTAS (7500 msl / Std Day)	147.7	151.0	3.3	0.978
PA24260	3100	65% cruise KTAS (11500 msl / Std Day)	152.9	153.0	0.1	1.000
PA24260	3100	75% cruise KTAS (0 msl / Std Day)	148.6	149.0	0.4	0.997
PA24260	3100	75% cruise KTAS (7500 msl / Std Day)	158.2	158.0	-0.2	0.999
PA24260	3100	55% cruise FF (0 msl / Std Day)	11.4	11.8	0.4	0.965
PA24260	3100	55% cruise FF (7500 msl / Std Day)	11.4	11.8	0.4	0.965
PA24260	3100	55% cruise FF (11500 msl / Std Day)	11.4	11.8	0.4	0.965
PA24260	3100	65% cruise FF (0 msl / Std Day)	12.7	13.0	0.3	0.976
PA24260	3100	65% cruise FF (7500 msl / Std Day)	12.7	13.0	0.3	0.976
PA24260	3100	65% cruise FF (11500 msl / Std Day)	12.7	12.6	-0.1	0.995
PA24260	3100	75% cruise FF (0 msl / Std Day)	14.5	16.5	2.0	0.862
PA24260	3100	75% cruise FF (7500 msl / Std Day)	14.5	15.4	0.9	0.937

--- TLAR PERFORMANCE ACCURACY FOR PA28140 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
PA28140	O-320	false	150	2700	74	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
PA28140	2150	Stall clean KCAS	54.7	54.7	0.0	1.000
PA28140	2150	Stall full flaps KCAS	46.9	46.9	0.0	1.000
PA28140	2150	Takeoff Ground Run (0 msl / 15 C)	800.0	830.0	30.0	0.963
PA28140	2150	Takeoff Ground Run (3000 msl / 9 C)	1200.0	1090.0	-110.0	0.908
PA28140	2150	Takeoff Ground Run (6000 msl / 3 C)	1550.0	1540.0	-10.0	0.994
PA28140	2150	Takeoff 50 (0 msl / 15 C)	1700.0	1850.0	150.0	0.912
PA28140	2150	Takeoff 50 (3000 msl / 9 C)	2400.0	2420.0	20.0	0.992
PA28140	2150	Takeoff 50 (6000 msl / 3 C)	3375.0	3340.0	-35.0	0.990
PA28140	2150	Vx KCAS (0 msl / 3 C)	64.3	62.0	-2.3	0.964
PA28140	2150	Vy KCAS (0 msl / 15 C)	73.9	74.0	0.2	0.998
PA28140	2150	Vy KCAS (5000 msl / 5 C)	66.9	73.9	7.0	0.896
PA28140	2150	Vy KCAS (10000 msl / -5 C)	65.2	67.8	2.7	0.959
PA28140	2150	Vy FPM (0 msl / 15 C)	825.0	807.4	-17.6	0.979
PA28140	2150	Vy FPM (5000 msl / 5 C)	585.0	566.2	-18.8	0.968
PA28140	2150	Vy FPM (10000 msl / -5 C)	340.0	311.3	-28.7	0.915
PA28140	2150	55% cruise KTAS (2000 msl / Std Day)	92.1	91.0	-1.1	0.988
PA28140	2150	55% cruise KTAS (6000 msl / Std Day)	95.6	94.0	-1.6	0.983
PA28140	2150	55% cruise KTAS (10000 msl / Std Day)	99.1	95.0	-4.1	0.959

PA28140	2150	65% cruise KTAS (2000 msl / Std Day)	99.9	103.0	3.1	0.969
PA28140	2150	65% cruise KTAS (6000 msl / Std Day)	104.3	106.0	1.7	0.983
PA28140	2150	65% cruise KTAS (10000 msl / Std Day)	107.8	108.0	0.2	0.998
PA28140	2150	75% cruise KTAS (2000 msl / Std Day)	107.8	110.0	2.2	0.979
PA28140	2150	75% cruise KTAS (6000 msl / Std Day)	112.1	113.0	0.9	0.992
PA28140	2150	55% cruise FF (2000 msl / Std Day)	6.2	6.3	0.1	0.984
PA28140	2150	55% cruise FF (6000 msl / Std Day)	6.2	6.3	0.1	0.984
PA28140	2150	55% cruise FF (10000 msl / Std Day)	6.2	6.3	0.1	0.984
PA28140	2150	65% cruise FF (2000 msl / Std Day)	7.3	7.3	0.0	0.999
PA28140	2150	65% cruise FF (6000 msl / Std Day)	7.3	7.3	0.0	0.999
PA28140	2150	65% cruise FF (10000 msl / Std Day)	7.3	7.3	0.0	0.999
PA28140	2150	75% cruise FF (2000 msl / Std Day)	8.4	8.4	0.0	1.000
PA28140	2150	75% cruise FF (6000 msl / Std Day)	8.4	8.4	0.0	1.000
PA28140	2150	Normal approach CAS (1.300 to 1)	66.0	61.0	-5.0	0.924
PA28140	2150	Land roll (0 msl / 15 C)	535.0	530.0	-5.0	0.991
PA28140	2150	Land roll (3000 msl / 9 C)	585.0	580.0	-5.0	0.991
PA28140	2150	Land roll (6000 msl / 3 C)	620.0	630.0	10.0	0.984

-- TLAR PERFORMANCE ACCURACY FOR PA28181 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
PA28181	O-360A4M	false	180	2700	76	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
PA28181	2100	Stall clean KCAS	55.0	53.5	-1.5	0.973
PA28181	2100	Stall partial flaps KCAS	50.0	49.0	-1.0	0.980
PA28181	2100	Stall full flaps KCAS	46.0	47.6	1.6	0.964
PA28181	2100	Takeoff Ground Run (0 msl / 15 C)	610.0	630.0	20.0	0.967
PA28181	2100	Takeoff Ground Run (4000 msl / 7 C)	1000.0	840.0	-160.0	0.840
PA28181	2100	Takeoff Ground Run (6000 msl / 3 C)	1150.0	980.0	-170.0	0.852
PA28181	2100	Takeoff 50 (0 msl / 15 C)	1090.0	1320.0	230.0	0.789
PA28181	2100	Takeoff 50 (4000 msl / 7 C)	1750.0	1740.0	-10.0	0.994
PA28181	2100	Takeoff 50 (6000 msl / 3 C)	2130.0	2000.0	-130.0	0.939
PA28181	2100	Takeoff KCAS	47.0	52.1	5.1	0.892
PA28181	2100	Normal approach CAS (1.300 to 1)	60.0	61.9	1.9	0.968
PA28181	2100	Land roll (0 msl / 15 C)	750.0	780.0	30.0	0.960
PA28181	2100	Land roll (4000 msl / 7 C)	850.0	870.0	20.0	0.976
PA28181	2100	Land roll (7000 msl / -1 C)	925.0	940.0	15.0	0.984
PA28181	2550	Stall clean KCAS	59.0	59.0	0.0	1.000
PA28181	2550	Stall partial flaps KCAS	54.0	54.0	0.0	1.000
PA28181	2550	Stall full flaps KCAS	52.5	52.5	0.0	1.000
PA28181	2550	Takeoff Ground Run (0 msl / 15 C)	870.0	1000.0	130.0	0.851
PA28181	2550	Takeoff Ground Run (4000 msl / 7 C)	1390.0	1390.0	0.0	1.000
PA28181	2550	Takeoff Ground Run (6000 msl / 3 C)	1675.0	1680.0	5.0	0.997
PA28181	2550	Takeoff 50 (0 msl / 15 C)	1650.0	1970.0	320.0	0.806
PA28181	2550	Takeoff 50 (4000 msl / 7 C)	2650.0	2710.0	60.0	0.977
PA28181	2550	Takeoff 50 (6000 msl / 3 C)	3250.0	3260.0	10.0	0.997

PA28181	2550	Takeoff KCAS	54.0	57.4	3.4	0.938
PA28181	2550	Vx KCAS (0 msl / 3 C)	59.0	67.0	8.0	0.864
PA28181	2550	Vy KCAS (0 msl / 15 C)	78.0	78.0	0.0	1.000
PA28181	2550	Vy FPM (0 msl / 15 C)	740.0	749.9	9.9	0.987
PA28181	2550	Vy FPM (5000 msl / 5 C)	500.0	529.8	29.8	0.940
PA28181	2550	Vy FPM (10000 msl / -5 C)	275.0	315.8	40.8	0.852
PA28181	2550	55% cruise KTAS (2000 msl / Std Day)	97.5	96.0	-1.5	0.985
PA28181	2550	55% cruise KTAS (6000 msl / Std Day)	100.5	99.0	-1.5	0.985
PA28181	2550	55% cruise KTAS (10000 msl / Std Day)	104.5	109.0	4.5	0.957
PA28181	2550	65% cruise KTAS (2000 msl / Std Day)	111.0	112.0	1.0	0.991
PA28181	2550	65% cruise KTAS (6000 msl / Std Day)	114.5	116.0	1.5	0.987
PA28181	2550	65% cruise KTAS (10000 msl / Std Day)	119.5	120.0	0.5	0.996
PA28181	2550	75% cruise KTAS (2000 msl / Std Day)	119.0	119.0	0.0	1.000
PA28181	2550	75% cruise KTAS (6000 msl / Std Day)	123.0	123.0	0.0	1.000
PA28181	2550	55% cruise FF (2000 msl / Std Day)	6.3	6.4	0.1	0.978
PA28181	2550	55% cruise FF (6000 msl / Std Day)	6.3	6.4	0.1	0.978
PA28181	2550	55% cruise FF (10000 msl / Std Day)	6.3	6.4	0.1	0.978
PA28181	2550	65% cruise FF (2000 msl / Std Day)	7.6	7.5	-0.1	0.993
PA28181	2550	65% cruise FF (6000 msl / Std Day)	7.6	7.5	-0.1	0.993
PA28181	2550	65% cruise FF (10000 msl / Std Day)	7.6	7.5	-0.1	0.993
PA28181	2550	75% cruise FF (2000 msl / Std Day)	8.8	8.8	0.0	0.996
PA28181	2550	75% cruise FF (6000 msl / Std Day)	8.8	8.8	0.0	0.996
PA28181	2550	Normal approach CAS (1.300 to 1)	68.0	68.2	0.2	0.996
PA28181	2550	Land roll (0 msl / 15 C)	920.0	930.0	10.0	0.989
PA28181	2550	Land roll (4000 msl / 7 C)	1040.0	1040.0	0.0	1.000
PA28181	2550	Land roll (7000 msl / -1 C)	1145.0	1130.0	-15.0	0.987

-- TLAR PERFORMANCE ACCURACY FOR RV10 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
RV10	IO-540D	false	260	2700	80	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
RV10	2200	Stall full flaps KCAS	49.5	49.4	-0.1	0.998
RV10	2200	Takeoff Ground Run (0 msl / 15 C)	360.0	340.0	-20.0	0.944
RV10	2200	Vy FPM (0 msl / 15 C)	1950.0	1986.5	36.5	0.981
RV10	2200	55% cruise KTAS (8000 msl / Std Day)	156.4	154.0	-2.4	0.985
RV10	2200	75% cruise KTAS (8000 msl / Std Day)	174.7	174.0	-0.7	0.996
RV10	2200	Land roll (0 msl / 15 C)	525.0	540.0	15.0	0.971
RV10	2700	Stall clean KCAS	58.0	58.1	0.1	0.998
RV10	2700	Stall partial flaps KCAS	56.1	56.1	0.0	1.000
RV10	2700	Stall full flaps KCAS	54.7	54.8	0.0	1.000
RV10	2700	Takeoff Ground Run (0 msl / 15 C)	500.0	520.0	20.0	0.960
RV10	2700	Vy KCAS (0 msl / 15 C)	90.0	95.0	5.0	0.944
RV10	2700	Vy FPM (0 msl / 15 C)	1450.0	1491.7	41.7	0.971
RV10	2700	55% cruise KTAS (8000 msl / Std Day)	152.9	149.0	-3.9	0.974
RV10	2700	75% cruise KTAS (8000 msl / Std Day)	171.2	171.0	-0.2	0.999

RV10	2700	Normal approach CAS (1.300 to 1)	71.1	71.2	0.1	0.999
RV10	2700	Land roll (0 msl / 15 C)	650.0	650.0	0.0	1.000

-- TLAR PERFORMANCE ACCURACY FOR RV12iS -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
RV12iS	R912iS	false	100	2550	70	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
RV12iS	1050	Stall clean KCAS	41.0	40.1	-0.9	0.979
RV12iS	1050	Stall partial flaps KCAS	39.0	39.2	0.2	0.994
RV12iS	1050	Stall full flaps KCAS	37.0	36.6	-0.4	0.988
RV12iS	1050	Takeoff Ground Run (0 msl / -7 C)	513.0	410.0	-103.0	0.799
RV12iS	1050	Takeoff Ground Run (0 msl / 16 C)	600.0	460.0	-140.0	0.767
RV12iS	1050	Takeoff Ground Run (0 msl / 38 C)	699.0	540.0	-159.0	0.773
RV12iS	1050	Takeoff Ground Run (4000 msl / -7 C)	688.0	540.0	-148.0	0.785
RV12iS	1050	Takeoff Ground Run (4000 msl / 16 C)	808.0	650.0	-158.0	0.804
RV12iS	1050	Takeoff Ground Run (4000 msl / 38 C)	937.0	770.0	-167.0	0.822
RV12iS	1050	Takeoff Ground Run (8000 msl / -7 C)	930.0	770.0	-160.0	0.828
RV12iS	1050	Takeoff Ground Run (8000 msl / 16 C)	1092.0	940.0	-152.0	0.861
RV12iS	1050	Takeoff Ground Run (8000 msl / 38 C)	1267.0	1150.0	-117.0	0.908
RV12iS	1050	Takeoff 50 (0 msl / -7 C)	1034.0	920.0	-114.0	0.890
RV12iS	1050	Takeoff 50 (0 msl / 16 C)	1212.0	1010.0	-202.0	0.833
RV12iS	1050	Takeoff 50 (0 msl / 38 C)	1421.0	1160.0	-261.0	0.816
RV12iS	1050	Takeoff 50 (4000 msl / -7 C)	1397.0	1160.0	-237.0	0.830
RV12iS	1050	Takeoff 50 (4000 msl / 16 C)	1672.0	1350.0	-322.0	0.807
RV12iS	1050	Takeoff 50 (4000 msl / 38 C)	2008.0	1570.0	-438.0	0.782
RV12iS	1050	Takeoff 50 (8000 msl / -7 C)	1990.0	1580.0	-410.0	0.794
RV12iS	1050	Takeoff 50 (8000 msl / 16 C)	2511.0	1880.0	-631.0	0.749
RV12iS	1050	Takeoff 50 (8000 msl / 38 C)	3387.0	2270.0	-1117.0	0.670
RV12iS	1050	Takeoff KCAS	50.0	49.1	-0.9	0.981
RV12iS	1050	Vy FPM (0 msl / -7 C)	1345.0	1176.9	-168.1	0.875
RV12iS	1050	Vy FPM (0 msl / 16 C)	1141.0	1091.5	-49.5	0.957
RV12iS	1050	Vy FPM (0 msl / 38 C)	956.0	982.3	26.3	0.972
RV12iS	1050	Vy FPM (4000 msl / -7 C)	975.0	975.8	0.8	0.999
RV12iS	1050	Vy FPM (4000 msl / 16 C)	777.0	864.1	87.1	0.888
RV12iS	1050	Vy FPM (4000 msl / 38 C)	598.0	766.5	168.5	0.718
RV12iS	1050	Vy FPM (8000 msl / -7 C)	606.0	750.2	144.2	0.762
RV12iS	1050	Vy FPM (8000 msl / 16 C)	416.0	650.8	234.8	0.436
RV12iS	1050	Vy FPM (8000 msl / 38 C)	243.0	563.4	320.4	-0.319
RV12iS	1320	Stall clean KCAS	45.0	45.0	0.0	1.000
RV12iS	1320	Stall partial flaps KCAS	44.0	44.0	-0.0	1.000
RV12iS	1320	Stall full flaps KCAS	41.0	41.0	0.0	1.000
RV12iS	1320	Takeoff Ground Run (0 msl / -7 C)	641.0	770.0	129.0	0.799
RV12iS	1320	Takeoff Ground Run (0 msl / 16 C)	750.0	770.0	20.0	0.973
RV12iS	1320	Takeoff Ground Run (0 msl / 38 C)	873.0	930.0	57.0	0.935
RV12iS	1320	Takeoff Ground Run (4000 msl / -7 C)	860.0	910.0	50.0	0.942

RV12iS	1320	Takeoff Ground Run (4000 msl / 16 C)	1010.0	1120.0	110.0	0.891
RV12iS	1320	Takeoff Ground Run (4000 msl / 38 C)	1171.0	1370.0	199.0	0.830
RV12iS	1320	Takeoff Ground Run (8000 msl / -7 C)	1163.0	1380.0	217.0	0.813
RV12iS	1320	Takeoff Ground Run (8000 msl / 16 C)	1365.0	1740.0	375.0	0.725
RV12iS	1320	Takeoff Ground Run (8000 msl / 38 C)	1583.0	2220.0	637.0	0.598
RV12iS	1320	Takeoff 50 (0 msl / -7 C)	1188.0	1560.0	372.0	0.687
RV12iS	1320	Takeoff 50 (0 msl / 16 C)	1397.0	1570.0	173.0	0.876
RV12iS	1320	Takeoff 50 (0 msl / 38 C)	1647.0	1850.0	203.0	0.877
RV12iS	1320	Takeoff 50 (4000 msl / -7 C)	1619.0	1830.0	211.0	0.870
RV12iS	1320	Takeoff 50 (4000 msl / 16 C)	1952.0	2210.0	258.0	0.868
RV12iS	1320	Takeoff 50 (4000 msl / 38 C)	2379.0	2680.0	301.0	0.873
RV12iS	1320	Takeoff 50 (8000 msl / -7 C)	2355.0	2710.0	355.0	0.849
RV12iS	1320	Takeoff 50 (8000 msl / 16 C)	3082.0	3410.0	328.0	0.894
RV12iS	1320	Takeoff 50 (8000 msl / 38 C)	4720.0	4350.0	-370.0	0.922
RV12iS	1320	Takeoff KCAS	55.0	55.0	0.0	1.000
RV12iS	1320	Vx KCAS (0 msl / -7 C)	60.0	56.0	-4.0	0.934
RV12iS	1320	Vy KCAS (0 msl / 38 C)	75.0	73.0	-2.0	0.974
RV12iS	1320	Vy FPM (0 msl / -7 C)	1069.0	844.3	-224.7	0.790
RV12iS	1320	Vy FPM (0 msl / 16 C)	906.0	770.1	-135.9	0.850
RV12iS	1320	Vy FPM (0 msl / 38 C)	758.0	676.5	-81.5	0.892
RV12iS	1320	Vy FPM (4000 msl / -7 C)	774.0	672.0	-102.0	0.868
RV12iS	1320	Vy FPM (4000 msl / 16 C)	617.0	576.2	-40.8	0.934
RV12iS	1320	Vy FPM (4000 msl / 38 C)	474.0	491.5	17.5	0.963
RV12iS	1320	Vy FPM (8000 msl / -7 C)	481.0	478.9	-2.1	0.996
RV12iS	1320	Vy FPM (8000 msl / 16 C)	330.0	392.4	62.4	0.811
RV12iS	1320	Vy FPM (8000 msl / 38 C)	192.0	315.0	123.0	0.359
RV12iS	1320	55% cruise KTAS (0 msl / Std Day)	96.0	96.0	0.0	1.000
RV12iS	1320	55% cruise KTAS (5500 msl / Std Day)	93.0	88.0	-5.0	0.946
RV12iS	1320	55% cruise KTAS (11500 msl / Std Day)	89.0	0.0	-89.0	0.000
RV12iS	1320	65% cruise KTAS (0 msl / Std Day)	107.0	107.0	0.0	1.000
RV12iS	1320	65% cruise KTAS (5500 msl / Std Day)	104.0	102.0	-2.0	0.981
RV12iS	1320	65% cruise KTAS (11500 msl / Std Day)	100.0	0.0	-100.0	0.000
RV12iS	1320	75% cruise KTAS (0 msl / Std Day)	120.0	122.0	2.0	0.983
RV12iS	1320	75% cruise KTAS (5500 msl / Std Day)	118.0	119.0	1.0	0.992
RV12iS	1320	75% cruise KTAS (11500 msl / Std Day)	114.0	110.0	-4.0	0.965
RV12iS	1320	55% cruise FF (0 msl / Std Day)	4.4	4.4	0.0	1.000
RV12iS	1320	55% cruise FF (5500 msl / Std Day)	3.6	3.6	-0.0	0.987
RV12iS	1320	55% cruise FF (11500 msl / Std Day)	2.7	2.5	-0.2	0.939
RV12iS	1320	65% cruise FF (0 msl / Std Day)	5.1	5.1	0.0	1.000
RV12iS	1320	65% cruise FF (5500 msl / Std Day)	4.2	4.5	0.3	0.940
RV12iS	1320	65% cruise FF (11500 msl / Std Day)	3.1	3.2	0.1	0.964
RV12iS	1320	75% cruise FF (0 msl / Std Day)	6.2	6.2	0.0	1.000
RV12iS	1320	75% cruise FF (5500 msl / Std Day)	5.2	5.5	0.3	0.946
RV12iS	1320	75% cruise FF (11500 msl / Std Day)	4.0	4.6	0.6	0.860
RV12iS	1320	Normal approach CAS (1.340 to 1)	55.0	54.9	-0.1	0.999
RV12iS	1320	Land roll (0 msl / -7 C)	494.0	490.0	-4.0	0.992
RV12iS	1320	Land roll (0 msl / 16 C)	532.0	530.0	-2.0	0.996
RV12iS	1320	Land roll (0 msl / 38 C)	570.0	570.0	0.0	1.000
RV12iS	1320	Land roll (4000 msl / -7 C)	566.0	560.0	-6.0	0.989

RV12iS	1320	Land roll (4000 msl / 16 C)	610.0	600.0	-10.0	0.984
RV12iS	1320	Land roll (4000 msl / 38 C)	653.0	650.0	-3.0	0.995
RV12iS	1320	Land roll (8000 msl / -7 C)	651.0	640.0	-11.0	0.983
RV12iS	1320	Land roll (8000 msl / 16 C)	701.0	700.0	-1.0	0.999
RV12iS	1320	Land roll (8000 msl / 38 C)	752.0	750.0	-2.0	0.997

-- TLAR PERFORMANCE ACCURACY FOR RV14A -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
RV14A	IO-390C	false	215	2700	74	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
RV14A	1715	Stall full flaps KCAS	46.9	47.3	0.3	0.993
RV14A	1715	Takeoff Ground Run (0 msl / 15 C)	225.0	350.0	125.0	0.444
RV14A	1715	Vy FPM (0 msl / 15 C)	2050.0	2049.5	-0.5	1.000
RV14A	1715	55% cruise KTAS (8000 msl / Std Day)	158.2	158.0	-0.2	0.999
RV14A	1715	75% cruise KTAS (8000 msl / Std Day)	178.1	179.0	0.9	0.995
RV14A	1715	Land roll (0 msl / 15 C)	330.0	430.0	100.0	0.697
RV14A	2050	Stall clean KCAS	54.8	54.9	0.0	1.000
RV14A	2050	Stall partial flaps KCAS	53.0	53.0	-0.0	0.999
RV14A	2050	Stall full flaps KCAS	51.3	51.7	0.4	0.992
RV14A	2050	Takeoff Ground Run (0 msl / 15 C)	375.0	500.0	125.0	0.667
RV14A	2050	Vy FPM (0 msl / 15 C)	1680.0	1617.5	-62.5	0.963
RV14A	2050	55% cruise KTAS (8000 msl / Std Day)	155.5	154.0	-1.5	0.990
RV14A	2050	75% cruise KTAS (8000 msl / Std Day)	176.4	177.0	0.6	0.997
RV14A	2050	Normal approach CAS (1.300 to 1)	66.7	67.2	0.5	0.992
RV14A	2050	Land roll (0 msl / 15 C)	340.0	510.0	170.0	0.500

-- TLAR PERFORMANCE ACCURACY FOR RV4 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
RV4	O-320h2ad	false	160	2700	69	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
RV4	1160	Stall full flaps KCAS	41.7	41.6	-0.1	0.997
RV4	1160	Takeoff Ground Run (0 msl / 15 C)	300.0	290.0	-10.0	0.967
RV4	1160	Vy KCAS (0 msl / 15 C)	102.0	100.0	-2.0	0.981
RV4	1160	Vy FPM (0 msl / 15 C)	2050.0	2128.6	78.6	0.962
RV4	1160	55% cruise KTAS (8000 msl / Std Day)	151.2	153.0	1.8	0.988
RV4	1160	75% cruise KTAS (8000 msl / Std Day)	167.7	168.0	0.3	0.998
RV4	1160	Land roll (0 msl / 15 C)	300.0	340.0	40.0	0.867
RV4	1500	Stall clean KCAS	50.4	50.8	0.4	0.992
RV4	1500	Stall partial flaps KCAS	48.7	48.7	0.0	1.000
RV4	1500	Stall full flaps KCAS	46.9	47.3	0.4	0.992
RV4	1500	Takeoff Ground Run (0 msl / 15 C)	450.0	510.0	60.0	0.867

RV4	1500	Vy KCAS (0 msl / 15 C)	103.0	103.0	0.0	1.000
RV4	1500	Vy FPM (0 msl / 15 C)	1650.0	1525.1	-124.9	0.924
RV4	1500	55% cruise KTAS (8000 msl / Std Day)	150.3	149.0	-1.3	0.991
RV4	1500	75% cruise KTAS (8000 msl / Std Day)	166.8	164.0	-2.8	0.983
RV4	1500	Normal approach CAS (1.300 to 1)	61.0	61.5	0.5	0.992
RV4	1500	Land roll (0 msl / 15 C)	425.0	430.0	5.0	0.988

-- TLAR PERFORMANCE ACCURACY FOR RV7 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
RV7	O-360A4M	false	180	2700	74	

Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
RV7	1400	Takeoff Ground Run (0 msl / 15 C)	275.0	340.0	65.0	0.764
RV7	1400	Vy FPM (0 msl / 15 C)	2200.0	2320.0	120.0	0.945
RV7	1400	55% cruise KTAS (8000 msl / Std Day)	158.2	158.0	-0.2	0.999
RV7	1400	75% cruise KTAS (8000 msl / Std Day)	177.3	179.0	1.7	0.990
RV7	1400	Land roll (0 msl / 15 C)	350.0	390.0	40.0	0.886
RV7	1800	Stall full flaps KCAS	50.4	50.5	0.1	0.999
RV7	1800	Takeoff Ground Run (0 msl / 15 C)	575.0	570.0	-5.0	0.991
RV7	1800	Vy FPM (0 msl / 15 C)	1650.0	1649.5	-0.5	1.000
RV7	1800	55% cruise KTAS (8000 msl / Std Day)	156.4	153.0	-3.4	0.978
RV7	1800	75% cruise KTAS (8000 msl / Std Day)	176.4	175.0	-1.4	0.992
RV7	1800	Normal approach CAS (1.300 to 1)	65.5	65.6	0.1	0.999
RV7	1800	Land roll (0 msl / 15 C)	500.0	490.0	-10.0	0.980

-- TLAR PERFORMANCE ACCURACY FOR RV8 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
RV8	O-360A4M	false	180	2700	74	

Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
RV8	1400	Takeoff Ground Run (0 msl / 15 C)	275.0	340.0	65.0	0.764
RV8	1400	Vy FPM (0 msl / 15 C)	2300.0	2320.0	20.0	0.991
RV8	1400	55% cruise KTAS (8000 msl / Std Day)	158.2	158.0	-0.2	0.999
RV8	1400	75% cruise KTAS (8000 msl / Std Day)	177.3	179.0	1.7	0.990
RV8	1400	Land roll (0 msl / 15 C)	350.0	390.0	40.0	0.886
RV8	1800	Stall full flaps KCAS	50.4	50.5	0.1	0.999
RV8	1800	Takeoff Ground Run (0 msl / 15 C)	575.0	570.0	-5.0	0.991
RV8	1800	Vy FPM (0 msl / 15 C)	1650.0	1649.5	-0.5	1.000
RV8	1800	55% cruise KTAS (8000 msl / Std Day)	156.4	153.0	-3.4	0.978
RV8	1800	75% cruise KTAS (8000 msl / Std Day)	176.4	175.0	-1.4	0.992
RV8	1800	Normal approach CAS (1.300 to 1)	65.5	65.6	0.1	0.999
RV8	1800	Land roll (0 msl / 15 C)	500.0	490.0	-10.0	0.980

-- TLAR PERFORMANCE ACCURACY FOR SR20 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
SR20	IO-390C	false	215	2700	74	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
SR20	2600	Takeoff Ground Run (0 msl / 15 C)	1023.0	1050.0	27.0	0.974
SR20	2600	Takeoff Ground Run (4000 msl / 7 C)	1414.0	1420.0	6.0	0.996
SR20	2600	Takeoff Ground Run (8000 msl / -1 C)	2004.0	2000.0	-4.0	0.998
SR20	2600	Takeoff 50 (0 msl / 15 C)	1566.0	1570.0	4.0	0.997
SR20	2600	Takeoff 50 (4000 msl / 7 C)	2141.0	2110.0	-31.0	0.986
SR20	2600	Takeoff 50 (8000 msl / -1 C)	3001.0	2950.0	-51.0	0.983
SR20	2600	Takeoff KCAS	67.0	67.2	0.2	0.997
SR20	2600	Vy FPM (0 msl / 15 C)	1160.0	1023.9	-136.1	0.883
SR20	2600	Vy FPM (6000 msl / 3 C)	760.0	730.0	-30.0	0.961
SR20	2600	Vy FPM (10000 msl / -5 C)	494.0	540.0	46.0	0.907
SR20	2600	55% cruise KTAS (2000 msl / Std Day)	127.0	126.0	-1.0	0.992
SR20	2600	55% cruise KTAS (6000 msl / Std Day)	132.0	132.0	0.0	1.000
SR20	2600	55% cruise KTAS (10000 msl / Std Day)	138.0	137.0	-1.0	0.993
SR20	2600	65% cruise KTAS (2000 msl / Std Day)	137.0	137.0	0.0	1.000
SR20	2600	65% cruise KTAS (6000 msl / Std Day)	143.0	143.0	0.0	1.000
SR20	2600	65% cruise KTAS (10000 msl / Std Day)	148.0	148.0	0.0	1.000
SR20	2600	75% cruise KTAS (2000 msl / Std Day)	146.0	146.0	0.0	1.000
SR20	2600	75% cruise KTAS (6000 msl / Std Day)	151.0	152.0	1.0	0.993
SR20	2600	55% cruise FF (2000 msl / Std Day)	9.6	9.4	-0.2	0.979
SR20	2600	55% cruise FF (6000 msl / Std Day)	9.3	9.4	0.1	0.995
SR20	2600	55% cruise FF (10000 msl / Std Day)	9.2	9.4	0.2	0.978
SR20	2600	65% cruise FF (2000 msl / Std Day)	11.0	10.8	-0.2	0.984
SR20	2600	65% cruise FF (6000 msl / Std Day)	10.8	10.8	-0.0	0.998
SR20	2600	65% cruise FF (10000 msl / Std Day)	10.7	10.8	0.1	0.988
SR20	2600	75% cruise FF (2000 msl / Std Day)	13.0	13.1	0.1	0.992
SR20	2600	75% cruise FF (6000 msl / Std Day)	13.3	13.1	-0.2	0.985
SR20	3150	Stall clean KCAS	69.0	69.0	-0.0	1.000
SR20	3150	Stall partial flaps KCAS	62.5	62.5	-0.0	1.000
SR20	3150	Stall full flaps KCAS	58.5	58.5	0.0	1.000
SR20	3150	Takeoff Ground Run (0 msl / 15 C)	1685.0	1690.0	5.0	0.997
SR20	3150	Takeoff Ground Run (4000 msl / 7 C)	2329.0	2370.0	41.0	0.982
SR20	3150	Takeoff Ground Run (8000 msl / -1 C)	3300.0	3560.0	260.0	0.921
SR20	3150	Takeoff 50 (0 msl / 15 C)	2530.0	2490.0	-40.0	0.984
SR20	3150	Takeoff 50 (4000 msl / 7 C)	3460.0	3460.0	0.0	1.000
SR20	3150	Takeoff 50 (8000 msl / -1 C)	4851.0	5200.0	349.0	0.928
SR20	3150	Takeoff KCAS	74.0	74.0	-0.0	1.000
SR20	3150	Vx KCAS (0 msl / -1 C)	81.0	79.0	-2.0	0.976
SR20	3150	Vy KCAS (0 msl / 15 C)	97.0	99.0	2.0	0.979
SR20	3150	Vy KCAS (6000 msl / 3 C)	94.0	94.9	0.9	0.991
SR20	3150	Vy KCAS (10000 msl / -5 C)	92.0	94.3	2.3	0.975
SR20	3150	Vy FPM (0 msl / 15 C)	864.0	737.3	-126.7	0.853

SR20	3150	Vy FPM (6000 msl / 3 C)	522.0	474.3	-47.7	0.909
SR20	3150	Vy FPM (10000 msl / -5 C)	294.0	304.4	10.4	0.965
SR20	3150	Normal approach CAS (1.333 to 1)	78.0	78.0	-0.0	1.000
SR20	3150	Land roll (0 msl / 15 C)	853.0	860.0	7.0	0.992
SR20	3150	Land roll (4000 msl / 7 C)	960.0	960.0	0.0	1.000
SR20	3150	Land roll (8000 msl / -3 C)	1085.0	1070.0	-15.0	0.986

-- TLAR PERFORMANCE ACCURACY FOR SR22 -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
SR22	IO-550N	false	310	2700	78	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
SR22	2900	Takeoff Ground Run (0 msl / 15 C)	684.0	690.0	6.0	0.991
SR22	2900	Takeoff Ground Run (4000 msl / 7 C)	959.0	900.0	-59.0	0.938
SR22	2900	Takeoff Ground Run (8000 msl / -1 C)	1367.0	1240.0	-127.0	0.907
SR22	2900	Takeoff 50 (0 msl / 15 C)	1080.0	1240.0	160.0	0.852
SR22	2900	Takeoff 50 (4000 msl / 7 C)	1498.0	1570.0	72.0	0.952
SR22	2900	Takeoff 50 (8000 msl / -1 C)	2113.0	2110.0	-3.0	0.999
SR22	2900	Takeoff KCAS	66.0	66.4	0.4	0.994
SR22	2900	Vy KCAS (0 msl / 15 C)	101.0	100.0	-1.0	0.990
SR22	2900	Vy KCAS (6000 msl / 3 C)	98.0	95.7	-2.3	0.977
SR22	2900	Vy KCAS (10000 msl / -5 C)	96.0	95.2	-0.8	0.991
SR22	2900	Vy FPM (0 msl / 15 C)	1732.0	1732.6	0.6	1.000
SR22	2900	Vy FPM (6000 msl / 3 C)	1326.0	1318.1	-7.9	0.994
SR22	2900	Vy FPM (10000 msl / -5 C)	1056.0	1055.3	-0.7	0.999
SR22	3400	55% cruise KTAS (4000 msl / Std Day)	154.0	152.0	-2.0	0.987
SR22	3400	55% cruise KTAS (8000 msl / Std Day)	160.0	158.0	-2.0	0.988
SR22	3400	55% cruise KTAS (12000 msl / Std Day)	166.0	164.0	-2.0	0.988
SR22	3400	65% cruise KTAS (4000 msl / Std Day)	165.0	164.0	-1.0	0.994
SR22	3400	65% cruise KTAS (8000 msl / Std Day)	171.0	170.0	-1.0	0.994
SR22	3400	65% cruise KTAS (12000 msl / Std Day)	178.0	177.0	-1.0	0.994
SR22	3400	75% cruise KTAS (4000 msl / Std Day)	173.0	174.0	1.0	0.994
SR22	3400	75% cruise KTAS (8000 msl / Std Day)	180.0	181.0	1.0	0.994
SR22	3400	55% cruise FF (4000 msl / Std Day)	11.3	11.3	0.0	1.000
SR22	3400	55% cruise FF (8000 msl / Std Day)	11.3	11.3	0.0	1.000
SR22	3400	55% cruise FF (12000 msl / Std Day)	11.3	11.3	0.0	1.000
SR22	3400	65% cruise FF (4000 msl / Std Day)	15.4	15.4	0.0	1.000
SR22	3400	65% cruise FF (8000 msl / Std Day)	15.4	15.4	0.0	1.000
SR22	3400	65% cruise FF (12000 msl / Std Day)	15.4	15.4	0.0	1.000
SR22	3400	75% cruise FF (4000 msl / Std Day)	17.8	17.8	0.0	1.000
SR22	3400	75% cruise FF (8000 msl / Std Day)	17.8	17.8	0.0	1.000
SR22	3600	Stall clean KCAS	71.5	71.5	0.0	1.000
SR22	3600	Stall partial flaps KCAS	66.5	66.5	0.0	1.000
SR22	3600	Stall full flaps KCAS	60.5	60.5	0.0	1.000
SR22	3600	Takeoff Ground Run (0 msl / 15 C)	1082.0	1130.0	48.0	0.956
SR22	3600	Takeoff Ground Run (4000 msl / 7 C)	1512.0	1550.0	38.0	0.975

SR22	3600	Takeoff Ground Run (8000 msl / -1 C)	2146.0	2190.0	44.0	0.979
SR22	3600	Takeoff 50 (0 msl / 15 C)	1868.0	1920.0	52.0	0.972
SR22	3600	Takeoff 50 (4000 msl / 7 C)	2578.0	2590.0	12.0	0.995
SR22	3600	Takeoff 50 (8000 msl / -1 C)	3616.0	3600.0	-16.0	0.996
SR22	3600	Takeoff KCAS	74.0	74.0	0.0	1.000
SR22	3600	Vx KCAS (0 msl / -1 C)	84.0	86.0	2.0	0.976
SR22	3600	Vy KCAS (0 msl / 15 C)	109.0	106.0	-3.0	0.973
SR22	3600	Vy KCAS (6000 msl / 3 C)	102.0	105.6	3.6	0.965
SR22	3600	Vy KCAS (10000 msl / -5 C)	99.0	103.4	4.4	0.955
SR22	3600	Vy FPM (0 msl / 15 C)	1251.0	1281.7	30.7	0.975
SR22	3600	Vy FPM (6000 msl / 3 C)	906.0	923.7	17.7	0.980
SR22	3600	Vy FPM (10000 msl / -5 C)	676.0	692.7	16.7	0.975
SR22	3600	Normal approach CAS (1.306 to 1)	79.0	79.0	0.0	1.000
SR22	3600	Land roll (0 msl / 15 C)	1178.0	1190.0	12.0	0.990
SR22	3600	Land roll (4000 msl / 7 C)	1326.0	1330.0	4.0	0.997
SR22	3600	Land roll (8000 msl / -3 C)	1499.0	1480.0	-19.0	0.987

-- TLAR PERFORMANCE ACCURACY FOR SR22T -----

Aircraft	Engine	Is Turbocharged?	HP	Rpm	Prop Diameter	
SR22T	TSIO-550K	true	315	2500	78	
Aircraft	Gross Weight	Metric (Pa/Temp)	POH	TLAR	Delta	Accuracy
SR22T	2900	Takeoff Ground Run (0 msl / 15 C)	544.0	610.0	66.0	0.879
SR22T	2900	Takeoff Ground Run (4000 msl / 7 C)	665.0	710.0	45.0	0.932
SR22T	2900	Takeoff Ground Run (8000 msl / -1 C)	819.0	830.0	11.0	0.987
SR22T	2900	Takeoff 50 (0 msl / 15 C)	852.0	1220.0	368.0	0.568
SR22T	2900	Takeoff 50 (4000 msl / 7 C)	1021.0	1350.0	329.0	0.678
SR22T	2900	Takeoff 50 (8000 msl / -1 C)	1231.0	1500.0	269.0	0.781
SR22T	2900	Takeoff KCAS	61.2	64.3	3.1	0.949
SR22T	2900	Vy KCAS (0 msl / 15 C)	121.0	121.0	0.0	1.000
SR22T	2900	Vy KCAS (6000 msl / 3 C)	121.0	121.0	0.0	1.000
SR22T	2900	Vy KCAS (10000 msl / -5 C)	121.0	121.0	0.0	1.000
SR22T	2900	Vy FPM (0 msl / 15 C)	1498.0	1610.0	112.0	0.925
SR22T	2900	Vy FPM (6000 msl / 3 C)	1515.0	1595.6	80.6	0.947
SR22T	2900	Vy FPM (10000 msl / -5 C)	1512.0	1576.5	64.5	0.957
SR22T	3400	55% cruise KTAS (6000 msl / Std Day)	147.0	148.0	1.0	0.993
SR22T	3400	55% cruise KTAS (14000 msl / Std Day)	157.0	160.0	3.0	0.981
SR22T	3400	55% cruise KTAS (25000 msl / Std Day)	171.0	174.0	3.0	0.982
SR22T	3400	65% cruise KTAS (6000 msl / Std Day)	159.0	160.0	1.0	0.994
SR22T	3400	65% cruise KTAS (14000 msl / Std Day)	170.0	172.0	2.0	0.988
SR22T	3400	65% cruise KTAS (25000 msl / Std Day)	188.0	189.0	1.0	0.995
SR22T	3400	75% cruise KTAS (6000 msl / Std Day)	168.0	170.0	2.0	0.988
SR22T	3400	75% cruise KTAS (14000 msl / Std Day)	181.0	182.0	1.0	0.994
SR22T	3400	75% cruise KTAS (25000 msl / Std Day)	201.0	201.0	0.0	1.000
SR22T	3400	55% cruise FF (6000 msl / Std Day)	12.7	12.7	0.0	1.000
SR22T	3400	55% cruise FF (14000 msl / Std Day)	12.7	12.7	0.0	1.000
SR22T	3400	55% cruise FF (25000 msl / Std Day)	12.7	12.7	0.0	1.000
SR22T	3400	65% cruise FF (6000 msl / Std Day)	14.6	14.6	0.0	1.000

SR22T	3400	65% cruise FF (14000 msl / Std Day)	14.6	14.6	0.0	1.000
SR22T	3400	65% cruise FF (25000 msl / Std Day)	14.6	14.6	0.0	1.000
SR22T	3400	75% cruise FF (6000 msl / Std Day)	16.4	16.4	0.0	1.000
SR22T	3400	75% cruise FF (14000 msl / Std Day)	16.4	16.4	0.0	1.000
SR22T	3400	75% cruise FF (25000 msl / Std Day)	16.4	16.4	0.0	1.000
SR22T	3600	Stall clean KCAS	71.5	71.5	0.0	1.000
SR22T	3600	Stall partial flaps KCAS	66.5	66.5	0.0	1.000
SR22T	3600	Stall full flaps KCAS	60.5	60.5	0.0	1.000
SR22T	3600	Takeoff Ground Run (0 msl / 15 C)	1517.0	1030.0	-487.0	0.679
SR22T	3600	Takeoff Ground Run (4000 msl / 7 C)	1856.0	1200.0	-656.0	0.647
SR22T	3600	Takeoff Ground Run (8000 msl / -1 C)	2284.0	1400.0	-884.0	0.613
SR22T	3600	Takeoff 50 (0 msl / 15 C)	2080.0	1910.0	-170.0	0.918
SR22T	3600	Takeoff 50 (4000 msl / 7 C)	2505.0	2130.0	-375.0	0.850
SR22T	3600	Takeoff 50 (8000 msl / -1 C)	3036.0	2380.0	-656.0	0.784
SR22T	3600	Takeoff KCAS	80.0	71.7	-8.3	0.896
SR22T	3600	Vx KCAS (0 msl / -1 C)	86.0	75.0	-11.0	0.872
SR22T	3600	Vy KCAS (0 msl / 15 C)	121.0	121.0	0.0	1.000
SR22T	3600	Vy KCAS (6000 msl / 3 C)	121.0	121.0	0.0	1.000
SR22T	3600	Vy KCAS (10000 msl / -5 C)	121.0	121.0	0.0	1.000
SR22T	3600	Vy FPM (0 msl / 15 C)	1174.0	1194.4	20.4	0.983
SR22T	3600	Vy FPM (6000 msl / 3 C)	1110.0	1173.6	63.6	0.943
SR22T	3600	Vy FPM (10000 msl / -5 C)	1067.0	1150.7	83.7	0.922
SR22T	3600	Normal approach CAS (1.306 to 1)	79.0	79.0	0.0	1.000
SR22T	3600	Land roll (0 msl / 15 C)	1178.0	1190.0	12.0	0.990
SR22T	3600	Land roll (4000 msl / 7 C)	1326.0	1330.0	4.0	0.997
SR22T	3600	Land roll (8000 msl / -3 C)	1499.0	1480.0	-19.0	0.987