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MARK IV SPECIFICATIONS AND LIMITATIONS

	S.T.O.L.	SPEEDWING
Wing Span	29 ft. 10.5 in.	23 ft. 11.5 in.
Wing Area	122.46 sq. ft.	97.31 sq. ft.
Wing Chord	42 in.	42 in.
Wing Chord Including Flaperons	51 in.	51 in.
Wing Loading @ Gross Weight	9.39 lbs.	9.36
Length	17 ft. 11 in.	17 ft. 11 in.
Length With Wings Folded	19 ft. 9.5 in.	17 ft. 11 in.
Width With Wings Folded	7 ft. 9.5 in.	7 ft. 9.5 in.
Height	71 in.	71 in.
Empty Weight	440-510 lbs.	510 lbs.
Gross Weight	1,150 lbs.	1,050 lbs.
Useful Load	640+ lbs.	540+ lbs.
Fuel Capacity	20 gal.	20 gal.
Fuel Consumption	3.5 gal./hr.	3.5 gal./hr.
Range	340 mi. (no reserve)	566 mi. (no reserve)
Propeller (wood)	71 in. fixed pitch	68 in. 3-blade grd. Adj.

	SOLO	GROSS	SOLO	GROSS
Weight	690 lbs.	1,150 lbs.	690 lbs.	1,050 lbs.
Cruise Speed	90 mph	90 mph	120 mph *	120 mph *
Stall Speed	32 mph	36 mph	42 mph	46 mph
Never Exceed Speed (Vne)	135 mph	135 mph	150 mph	150 mph
Rate of Climb	1,700 fpm	1,000 fpm	1,200 mph	850 fpm
Climb Angle	45°	28°	n/a	n/a
Best Rate of Climb Speed (Vy)	45 mph	50 mph	57 mph	60 mph
Best Angle of Climb Speed (Vx)	40 mph	45 mph	52 mph	55 mph
Take-off Distance	90 ft.	140 ft.	125 ft.	300 ft.
Over 50 ft. Obstacle	200 ft.	350 ft.	250 ft.	500 ft.
Landing Distance	150 ft.	200 ft.	500 ft.	600 ft.
Service Ceiling	12,500+ ft.	12,500+ ft.	12,500+ ft.	12,500+ ft.

*with 912 engine -- approximately 10 mph less with 582