

W&B / PREFLIGHT COMPUTATIONS PA-39 CR N78RJ

ITEM	WEIGHT	×	ARM	=	MOMENT ÷ 1000
Basic Empty Weight		×		=	
Front Seats 1, 2		×		=	
Middle Seats 3, 4		×		=	
Rear Seats/Baggage (Max. 250 lbs.)		×		=	
Zero Fuel Weight*	N/A	×	N/A	=	N/A
Mains Fuel (inboard) (____ gal.) (Max. 60 Total, 54 Usable)		×		=	
Aux. Fuel (outboard) (____ gal.) (Max. 30 Total, 30 Usable)		×		=	
TAKEOFF	WEIGHT	×	ARM	=	MOMENT

TAKEOFF CG OK? Y / N	FWD	MID	AFT
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Fuel Burn Mains		×		=	
Fuel Burn Auxiliaries		×		=	
LANDING	WEIGHT		ARM		MOMENT

LANDING CG OK?	FWD	MID	AFT
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PERFORMANCE:	Pressure Altitude: _____	Temp: _____ °F
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Worst Case Scenario (WCS) (based on MTOW, 100°F, 3000' pressure altitude, 0 kts wind): WCS T.O. over 50' obstacle (2 Engine): _____; WCS T.O. One Engine Inoperative: _____ WCS Climb Rate (2 Engine): _____; WCS Climb Rate One Engine Inoperative: _____			
The following are actual condition calculations:	CHART	% PILOT	REALITY
Normal Takeoff Distance over 50 ft.	_____ ft	× _____ =	_____ ft
Accelerate Stop Distance (Decision Speed: _____)	_____ ft	× _____ =	_____ ft
Single Engine Takeoff Distance	_____ ft	× _____ =	_____ ft
Single Engine Climb Rate	_____ fpm	× _____ =	_____ fpm
Single Engine Service Ceiling	_____ ft	× _____ =	_____ ft
Landing Distance over 50 ft.	_____ ft	× _____ =	_____ ft

FUEL MANAGEMENT:	TOTAL USEABLE FUEL AVAILABLE THIS FLIGHT – MAINS (INBOARDS):	_____ gal.
	TOTAL USEABLE FUEL AVAILABLE THIS FLIGHT – AUX. (OUTBOARDS):	_____ gal.

Use Main Tanks (Outboards) for Start, Taxi, Take-off, & Landing.								
FUEL TANKS	Start Time	End Time	Elapsed Time	GPH	Fuel Used	Fuel Remaining	Start Taxi Takeoff	Fuel Remaining
OUTBOARDS	:	:	:		-		- 4 gal.	
INBOARDS	:	:	:		-		N/A	

"V" SPEEDS

Emergency & Critical:

V _{MC}	_____ MPH
V _{SSE}	_____ MPH
V _{YSE}	_____ MPH
V _{XSE}	_____ MPH
V _{FE (0°-27°)}	_____ MPH
V _{LE}	_____ MPH
Best Glide	_____ MPH
V _{A (2825 lbs.)}	_____ MPH
V _{A (3600 lbs.)}	_____ MPH

Normal Takeoff:

Flaps set @ _____ °	
V _R	_____ MPH
V _y	_____ MPH
V _{rc}	_____ MPH

Max Performance Takeoff:

Flaps set @ _____ °	
V _R	_____ MPH
V _X	_____ MPH
V _Y	_____ MPH
V _{RC}	_____ MPH

**A specific zero fuel weight has not been established for this aircraft.*