

Mikoyan-Gurevich MiG-21

- MiG-21F
- MiG-21F-13
- MiG-21PF
- MiG-21PFM
- MiG-21FL
- MiG-21S
- MiG-21M
- MiG-21SM
- MiG-21MF
- MiG-21bis

MiG-21F										Crew: Pilot			
										Maneuver DPs:			
LR/DR		1.5											
VR		0.5											
Power APs/DPs: ○				Turn DPs:									
CL	1/2	DT	Fuel	Cruise Spd. CL: 6.0		Restr. Arcs: 180L 60–		CL	1/2	DT			
AB	3.0	3.0	2.5	5.0	Climb Spd.: 4.5		Blind Arcs: 30–		TT	1.0	1.0	1.0	
M	2.0	2.0	1.5	2.0	Visibility: 5		Internal Fuel: 200		HT	1.5	1.5	1.5	
N	0.0	0.0	0.0	1.0	Size: +0		AtA Refuel: No		BT	2.0	2.5	2.5	
I	1.0	1.0	1.0	0.0	Vulnerability: −2		Ejection Seat: Std		ET	2.5	—	—	
SPBR	1.0	1.0	2.0	—									
Speeds and Ceilings						Climb Capabilities							
Alt. Band	Conf. Ceil.	CL 58	1/2 56	DT 54	Dive Speed	CL AB	Oth	1/2 AB	Oth	DT AB	Oth		
EH+	46+	3.5 – 11.0	3.5 – 10.0	4.0 – 9.0	12.0	1.0	0.5	1.0	0.5	1.0	0.5	EH+	
VH	36–45	3.0 – 12.0	3.0 – 11.0	3.5 – 10.0	12.0	1.0	0.5	1.0	0.5	1.0	0.5	VH	
HI	26–35	2.5 – 10.0	3.0 – 9.0	3.0 – 8.0	11.0	2.0	1.0	2.0	0.5	1.5	0.5	HI	
MH	17–25	2.0 – 9.0	2.5 – 8.0	2.5 – 7.5	10.0	2.0	1.0	2.0	1.0	1.5	0.5	MH	
ML	8–16	2.0 – 7.5	2.0 – 7.5	2.5 – 7.0	8.0	3.0	1.5	3.0	1.0	2.0	1.0	ML	
LO	0–7	1.5 – 6.5	2.0 – 6.5	2.0 – 6.5	7.0	4.0	2.0	3.0	1.0	2.0	1.0	LO	
Radar: SRD-5MN Baza-6					ECM: IFF		Weapon Stations Diagram:						
ECCM: 0		RWR: —											
Arcs: Limited		DDS: —											
Search: —		DJM: —											
Track: 10–6		AJM: —			Load Point Limits: CL : < 3 1/2: < 5								
Lock-On: 5		BJM: —											
Guns: Two 30 mm NR-30		Technology: None											
To Hit: 5/3/1													
Ammunition: 2.0						Weight Limit: 2,200		DT : ≥ 5					
Gunsight: TT+0/HT+2/BT+3						Station		Limit		Allowed Loads			
Ranging: RE						1 and 3		550		BB RP RK DR			
AtA/AtG: 5/6						2		1,100		FT			
Bomb System: Manual					Notes: 1. The Mikoyan-Gurevich MiG-21F is a day fighter. This is the first production version with two NR-30 cannons, but without a search radar or missile armament. The NATO reporting name for the aircraft is Fishbed-B and for the radar is High Fix. 2. The thick front canopy gives a +1 modifier to sighting rolls for targets in the 180+ arc.								
					VPs: 14/9/5/2				v3 0000000 0000-00-00T00:00:00				

MiG-21F-13										Crew: Pilot			
										Maneuver DPs:			
LR/DR		1.5											
VR		0.5											
Turn DPs:													
		CL	1/2	DT									
TT		1.0	1.0	1.0									
HT		1.5	1.5	1.5									
BT		2.0	2.5	2.5									
ET		2.5	—	—									
Power APs/DPs: ○					Cruise Spd. CL: 6.0		Restr. Arcs: 180L						
					Climb Spd.: 4.5		Blind Arcs: 30—						
					Visibility: 5		Internal Fuel: 200						
					Size: +0		AtA Refuel: No						
					Vulnerability: -2		Ejection Seat: Std						
Speeds and Ceilings						Climb Capabilities							
Alt. Band	Conf. Ceil.	CL 58	1/2 56	DT 54	Dive Speed	CL AB	Oth	1/2 AB	Oth	DT AB	Oth		
EH+	46+	3.5 – 11.0	3.5 – 10.0	4.0 – 9.0	12.0	1.0	0.5	1.0	0.5	1.0	0.5	EH+	
VH	36–45	3.0 – 12.0	3.0 – 11.0	3.5 – 10.0	12.0	1.0	0.5	1.0	0.5	1.0	0.5	VH	
HI	26–35	2.5 – 10.0	3.0 – 9.0	3.0 – 8.0	11.0	2.0	1.0	2.0	0.5	1.5	0.5	HI	
MH	17–25	2.0 – 9.0	2.5 – 8.0	2.5 – 7.5	10.0	2.0	1.0	2.0	1.0	1.5	0.5	MH	
ML	8–16	2.0 – 7.5	2.0 – 7.5	2.5 – 7.0	8.0	3.0	1.5	3.0	1.0	2.0	1.0	ML	
LO	0–7	1.5 – 6.5	2.0 – 6.5	2.0 – 6.5	7.0	4.0	2.0	3.0	1.0	2.0	1.0	LO	
Radar: SRD-5ND Kvant					ECM: IFF		Weapon Stations Diagram:						
ECCM: 0					RWR: —								
Arcs: Limited					DDS: —								
Search: —					DJM: —								
Track: 10–6					AJM: —								
Lock-On: 5					BJM: —								
Guns: One 30 mm NR-30					Technology:		Load Point Limits: CL : < 3						
To Hit: 4/2/1					None		1/2: < 5						
Ammunition: 2.0							Weight Limit: 2,200 DT : ≥ 5						
Gunsight: TT+0/HT+2/BT+3							Station Limit Allowed Loads						
Ranging: RE							1 and 3 550 BB RP RK DR IRM						
AtA/AtG: 4/3							2 1,100 FT						
Bomb System: Manual							Load Notes:						
							1. From 1961, may use AA-2 IRMs.						
Notes:													
1. The Mikoyan-Gurevich MiG-21F-13 is a day fighter. This is an improved version of the MiG-21F, with provision for AA-2 IRMs, but with only one NR-30 gun and still without a search radar. The NATO reporting name for the aircraft is Fishbed-C and for the radar is High Fix.													
2. The thick front canopy gives a +1 modifier to sighting rolls for targets in the 180+ arc.													
							VPs: 16/11/5/3						
							v3 0000000 0000-00-00T00:00:00						

MiG-21PF										Crew: Pilot			
										Maneuver DPs:			
LR/DR 1.5													
VR 0.5													
Turn DPs:													
Power APs/DPs: ○					CL 1/2 DT								
					TT 1.0 1.0 1.0								
					HT 1.5 1.5 1.5								
					BT 2.0 2.5 2.5								
					ET 2.5 — —								
CL 1/2 DT Fuel					Cruise Spd. CL: 6.0 Restr. Arcs: 180L 60—								
AB 3.0 3.0 2.5 5.0					Climb Spd.: 4.5 Blind Arcs: 30—								
M 2.0 2.0 1.5 2.0					Visibility: 5 Internal Fuel: 225								
N 0.0 0.0 0.0 1.0					Size: +0 AtA Refuel: No								
I 1.0 1.0 1.0 0.0					Vulnerability: -2 Ejection Seat: Std								
SPBR 1.0 1.0 2.0 —													
Speeds and Ceilings						Climb Capabilities							
Alt. Band	Conf. Ceil.	CL 58	1/2 56	DT 54	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth					
EH+	46+	3.5 – 11.0	3.5 – 10.0	4.0 – 9.0	12.0	1.0 0.5	1.0 0.5	1.0 0.5	EH+				
VH	36–45	3.0 – 12.0	3.0 – 11.0	3.5 – 10.0	12.0	1.0 0.5	1.0 0.5	1.0 0.5	VH				
HI	26–35	2.5 – 10.0	3.0 – 9.0	3.0 – 8.0	11.0	2.0 1.0	2.0 0.5	1.5 0.5	HI				
MH	17–25	2.0 – 9.0	2.5 – 8.0	2.5 – 7.5	10.0	2.0 1.0	2.0 1.0	1.5 0.5	MH				
ML	8–16	2.0 – 7.5	2.0 – 7.5	2.5 – 7.0	8.0	3.0 1.5	3.0 1.0	2.0 1.0	ML				
LO	0–7	1.5 – 6.5	2.0 – 6.5	2.0 – 6.5	7.0	4.0 2.0	3.0 1.0	2.0 1.0	LO				
Radar: RP-21 Sapfir					ECM: IFF		Weapon Stations Diagram:						
ECCM: 0					RWR: A								
Arcs: 180+					DDS: —								
Search: 30–6					DJM: —								
Track: 18–6					AJM: —								
Lock-On: 7					BJM: —								
Guns: —					Technology: None		Load Point Limits: CL : < 3						
To Hit: —							1/2: < 5						
Ammunition: —							Weight Limit: 2,200 DT : ≥ 5						
Gunsight: TT+0/HT+2/BT+3							Station Limit Allowed Loads						
Ranging: RE							1 and 3 550 BB RP RK DR BRM IRM						
AtA/AtG: —					2 1,100 FT								
Bomb System: Manual							Load Notes:						
Notes: 1. The Mikoyan-Gurevich MiG-21PF is an all-weather interceptor. It is equipped with the RP-21 radar, a more powerful engine than the MiG-21F versions, and the ability to use AA-1 BRMs and AA-2 IRMs. The NATO reporting name for the aircraft is Fishbed-D and the radar is Spin Scan-A. 2. The thick front canopy gives a +1 modifier to sighting rolls for targets in the 180+ arc.							1. May use AA-1 BRMs and AA-2 IRMs.						
					VPs: 18/12/6/3				v3 0000000 0000-00-00T00:00:00				

MiG-21PFM										Crew: Pilot								
										Maneuver DPs:								
LR/DR		1.5																
VR		0.5																
Turn DPs:																		
Power APs/DPs: ○					CL		1/2		DT									
					AB		3.0		3.0		2.5		5.0					
M					2.0		2.0		1.5		2.0							
N					0.0		0.0		0.0		1.0							
I					1.0		1.0		1.0		0.0							
SPBR					1.0		1.0		2.0		—							
					Cruise Spd. CL: 6.0		Restr. Arcs: 180L		60—									
					Climb Spd.: 4.5		Blind Arcs: 30—											
					Visibility: 5		Internal Fuel: 220											
					Size: +0		AtA Refuel: No											
					Vulnerability: -2		Ejection Seat: Std											
											Selectable combat flaps. If selected and speed ≤ 4.5, use higher drag and reduce minimum speeds by 0.5.							
Speeds and Ceilings						Climb Capabilities												
Alt. Conf.		CL		1/2		DT		Dive		CL		1/2		DT				
Band Ceil.		58		56		54		Speed		AB Oth		AB Oth		AB Oth				
EH+		46+		3.5 – 11.0		3.5 – 10.0		4.0 – 9.0		12.0		1.0 0.5		1.0 0.5		1.0 0.5		EH+
VH		36–45		3.0 – 12.0		3.0 – 11.0		3.5 – 10.0		12.0		1.0 0.5		1.0 0.5		1.0 0.5		VH
HI		26–35		2.5 – 10.0		3.0 – 9.0		3.0 – 8.0		11.0		2.0 1.0		2.0 0.5		1.5 0.5		HI
MH		17–25		2.0 – 9.0		2.5 – 8.0		2.5 – 7.5		10.0		2.0 1.0		2.0 1.0		1.5 0.5		MH
ML		8–16		2.0 – 7.5		2.0 – 7.5		2.5 – 7.0		8.0		3.0 1.5		3.0 1.0		2.0 1.0		ML
LO		0–7		1.5 – 6.5		2.0 – 6.5		2.0 – 6.5		7.0		4.0 2.0		3.0 1.0		2.0 1.0		LO

Radar:		RP-21M Sapfir		ECM:		IFF		Weapon Stations Diagram:											
ECCM:		0		RWR:		A													
Arcs:		180+		DDS:		—													
Search:		30–6		DJM:		—													
Track:		18–6		AJM:		—													
Lock-On:		7		BJM:		—													
Guns:		—		Technology:		None		Load Point Limits:				CL : < 3							
To Hit:		—										1/2: < 5							
Ammunition:		—						Weight Limit:				2,200 DT : ≥ 5							
Gunsight:		TT+0/HT+2/BT+3						Station				Limit				Allowed Loads			
Ranging:		RE						1 and 3				550				BB RP RK DR BRM IRM			
AtA/AtG:		—						2				1,100				FT GP			
Bomb System:		Manual						Load Notes:											
								1. May use AA-1 BRMs and AA-2 IRMs.											
								2. Station 2 may carry a GP-9 gunpod.											

MiG-21FL										Crew: Pilot			
										Maneuver DPs:			
LR/DR		1.5											
VR		0.5											
Turn DPs:													
		CL	1/2	DT									
TT		1.0	1.0	1.0									
HT		1.5	1.5	1.5									
BT		2.0	2.5	2.5									
ET		2.5	—	—									
Power APs/DPs: ○					Cruise Spd. CL: 6.0		Restr. Arcs: 180L		60–				
					Climb Spd.: 4.5		Blind Arcs: 30–						
					Visibility: 5		Internal Fuel: 220						
					Size: +0		AtA Refuel: No						
					Vulnerability: −2		Ejection Seat: Std						
Speeds and Ceilings						Climb Capabilities							
Alt. Band	Conf. Ceil.	CL 58	1/2 56	DT 54	Dive Speed	CL AB	Oth	1/2 AB	Oth	DT AB	Oth		
EH+	46+	3.5 – 11.0	3.5 – 10.0	4.0 – 9.0	12.0	1.0	0.5	1.0	0.5	1.0	0.5	EH+	
VH	36–45	3.0 – 12.0	3.0 – 11.0	3.5 – 10.0	12.0	1.0	0.5	1.0	0.5	1.0	0.5	VH	
HI	26–35	2.5 – 10.0	3.0 – 9.0	3.0 – 8.0	11.0	2.0	1.0	2.0	0.5	1.5	0.5	HI	
MH	17–25	2.0 – 9.0	2.5 – 8.0	2.5 – 7.5	10.0	2.0	1.0	2.0	1.0	1.5	0.5	MH	
ML	8–16	2.0 – 7.5	2.0 – 7.5	2.5 – 7.0	8.0	3.0	1.5	3.0	1.0	2.0	1.0	ML	
LO	0–7	1.5 – 6.5	2.0 – 6.5	2.0 – 6.5	7.0	4.0	2.0	3.0	1.0	2.0	1.0	LO	
Radar:					R1L		ECM:		IFF		Weapon Stations Diagram:		
ECCM:					0		RWR:		A				
Arcs:					180+		DDS:		—				
Search:					30–6		DJM:		—				
Track:					18–6		AJM:		—				
Lock-On:					7		BJM:		—				
Guns:					—		Technology:				Load Point Limits:		
To Hit:					—		None				CL : < 3		
Ammunition:					—						1/2: < 5		
Gunsight:					TT+0/HT+2/BT+3						Weight Limit:		
Ranging:					RE						2,200		
AtA/AtG:					—						DT : ≥ 5		
Bomb System:					Manual						Station		
Notes:											Limit		
											Allowed Loads		
											1 and 3		
											550		
											BB RP RK DR FT IRM		
											2		
											1,100		
											FT GP		
											Load Notes:		
											1. From 1961, may use AA-2 IRMs.		
											2. Station 2 may carry a GP-9 gunpod.		
											VPs: 18/12/6/3		
											v3 0000000 0000-00-00T00:00:00		

MiG-21S										Crew: Pilot										
										Maneuver DPs:										
LR/DR 1.5																				
VR 0.5																				
Turn DPs:																				
Power APs/DPs: ○										CL 1/2 DT										
					AB 3.0 2.5 2.0 5.0					TT 1.0/1.5 1.0/1.5 1.0/1.5										
M 1.5 1.0 1.0 2.0										HT 1.5/2.0 1.5/2.0 2.0/2.5										
N 0.0 0.0 0.0 1.0										BT 2.5/3.0 2.5/3.0 2.5/3.0										
I 1.0 1.0 2.0 0.0										ET 2.5/3.0 3.0/3.5 —										
SPBR 1.0 2.0 2.0 —																				
					Cruise Spd. CL: 6.0					Restr. Arcs: 180L 60—										
					Climb Spd.: 4.5					Blind Arcs: 30—										
					Visibility: 5					Internal Fuel: 220										
					Size: +0					AtA Refuel: No										
					Vulnerability: −2					Ejection Seat: Std										
Speeds and Ceilings										Climb Capabilities										
Alt. Conf.		CL		1/2		DT		Dive		CL		1/2		DT						
Band Ceil.		56		50		44		Speed		AB Oth		AB Oth		AB Oth						
EH+		46+		4.0 − 11.0		4.5 − 10.0		—		12.0		1.0 0.5		1.0 0.5		EH+				
VH		36−45		3.5 − 12.0		4.0 − 11.0		5.0 − 9.0		12.0		1.0 0.5		1.0 0.5		VH				
HI		26−35		3.0 − 10.5		3.5 − 9.0		4.0 − 8.0		12.0		2.0 0.5		1.0 0.5		HI				
MH		17−25		2.5 − 9.0		3.0 − 8.0		3.0 − 7.0		10.0		3.0 1.0		2.0 1.0		MH				
ML		8−16		2.0 − 8.5		2.5 − 7.5		2.5 − 6.5		9.0		4.0 1.0		3.0 1.0		ML				
LO		0−7		2.0 − 8.0		2.0 − 7.0		2.5 − 6.0		8.5		4.0 2.0		3.0 1.0		LO				
Radar:				RP-22 Saphir				ECM:				IFF				Weapon Stations Diagram:				
ECCM:				0				RWR:				A								
Arcs:				180+				DDS:				—								
Search:				48−12				DJM:				—								
Track:				30−8				AJM:				—								
Lock-On:				7				BJM:				—								
Guns:				—				Technology:								Load Point Limits:				
To Hit:				—				None								CL : < 5				
Ammunition:				—												1/2: < 7				
Gunsight:				TT+0/HT+2/BT+3												Weight Limit:				
Ranging:				RE												4,400				
AtA/AtG:				—												DT : ≥ 7				
Bomb System:				Manual																
Notes:																				
1. The Mikoyan-Gurevich MiG-21S is an all-weather interceptor. It is equipped with the RP-22 radar and is able to use the AA-2 IRMs and RHMs and AA-1 BRMs. It has internal guns, but is able to mount a GP-9 gun pod. The NATO reporting name for the aircraft is Fishbed-J and for the radar is Jay Bird.																				
2. The thick front canopy gives a +1 modifier to sighting rolls for targets in the 180+ arc.																				

MiG-21M										Crew: Pilot									
										Maneuver DPs:									
LR/DR 1.5																			
VR 0.5																			
Turn DPs:																			
Power APs/DPs: ○										CL 1/2 DT									
					AB 3.0 2.5 2.0 5.0					TT 1.0/1.5 1.0/1.5 1.0/1.5									
M 1.5 1.0 1.0 2.0										HT 1.5/2.0 1.5/2.0 2.0/2.5									
N 0.0 0.0 0.0 1.0										BT 2.5/3.0 2.5/3.0 2.5/3.0									
I 1.0 1.0 2.0 0.0										ET 2.5/3.0 3.0/3.5 —									
SPBR 1.0 2.0 2.0 —																			
					Cruise Spd. CL: 6.0					Restr. Arcs: 180L 60—									
					Climb Spd.: 4.5					Blind Arcs: 30—									
					Visibility: 5					Internal Fuel: 220									
					Size: +0					AtA Refuel: No									
					Vulnerability: −2					Ejection Seat: Std									
Speeds and Ceilings										Climb Capabilities									
Alt. Conf.		CL		1/2		DT		Dive		CL		1/2		DT					
Band Ceil.		56		50		44		Speed		AB Oth		AB Oth		AB Oth					
EH+		46+		4.0 – 11.0		4.5 – 10.0		—		12.0		1.0 0.5		1.0 0.5		EH+			
VH		36–45		3.5 – 12.0		4.0 – 11.0		5.0 – 9.0		12.0		1.0 0.5		1.0 0.5		VH			
HI		26–35		3.0 – 10.5		3.5 – 9.0		4.0 – 8.0		12.0		2.0 0.5		1.0 0.5		HI			
MH		17–25		2.5 – 9.0		3.0 – 8.0		3.0 – 7.0		10.0		3.0 1.0		2.0 1.0		MH			
ML		8–16		2.0 – 8.5		2.5 – 7.5		2.5 – 6.5		9.0		4.0 1.0		3.0 1.0		ML			
LO		0–7		2.0 – 8.0		2.0 – 7.0		2.5 – 6.0		8.5		4.0 2.0		3.0 1.0		LO			

Radar:		RP-21MA Sapfir		ECM:		IFF		Weapon Stations Diagram:									
ECCM:		0		RWR:		A											
Arcs:		180+		DDS:		—											
Search:		35–8		DJM:		—											
Track:		24–8		AJM:		—											
Lock-On:		7		BJM:		—											
Guns:		23 mm GSh-23		Technology:		None		Load Point Limits:									
To Hit:		7/4/2		CL : < 5													
Ammunition:		2.0		1/2: < 7													
Gunsight:		TT+0/HT+2/BT+3		Weight Limit: 4,400 DT : ≥ 7													
Ranging:		RE															
AtA/AtG:		5/5		Station Limit Allowed Loads													
Bomb System:		Manual		1 and 5 550 BB RP RK EP FT IRM													
				2 and 4 1,100 BB RP RK FT DR IRM													
				3 1,100 EP PP FT													
				Load Notes:													
				1. From 1961, may use AA-2 IRMs.													

MiG-21SM										Crew: Pilot									
										Maneuver DPs:									
LR/DR 1.5																			
VR 0.5																			
Turn DPs:																			
Power APs/DPs: ○					Cruise Spd. CL: 6.0					Restr. Arcs: 180L60–									
CL 1/2 DT Fuel					Climb Spd.: 4.5					Blind Arcs: 30–									
AB 3.5 2.5 2.5 6.0					Visibility: 5					Internal Fuel: 220									
M 1.5 1.0 1.0 2.0					Size: +0					AtA Refuel: No									
N 0.0 0.0 0.0 1.0					Vulnerability: −2					Ejection Seat: Std									
I 1.0 1.0 2.0 0.0																			
SPBR 1.0 2.0 2.0 —																			
Speeds and Ceilings										Climb Capabilities									
Alt. Conf.		CL		1/2		DT		Dive		CL		1/2		DT					
Band Ceil.		56		50		44		Speed		AB Oth		AB Oth		AB Oth					
EH+ 46+		4.0 – 11.0		4.5 – 10.0		—		12.0		1.0 0.5		1.0 0.5		— —		EH+			
VH 36–45		3.5 – 12.0		4.0 – 11.0		5.0 – 9.0		12.0		1.0 0.5		1.0 0.5		1.0 0.5		VH			
HI 26–35		3.0 – 10.5		3.5 – 9.0		4.0 – 8.0		12.0		2.0 0.5		1.0 0.5		1.0 0.5		HI			
MH 17–25		2.5 – 9.0		3.0 – 8.0		3.0 – 7.0		10.0		3.0 1.0		2.0 1.0		1.5 0.5		MH			
ML 8–16		2.0 – 8.5		2.5 – 7.5		2.5 – 6.5		9.0		4.0 1.0		3.0 1.0		1.5 0.5		ML			
LO 0–7		2.0 – 8.0		2.0 – 7.0		2.5 – 6.0		8.5		4.0 2.0		3.0 1.0		2.0 1.0		LO			
Radar: RP-22 Saphir					ECM: IFF					Weapon Stations Diagram:									
ECCM: 0					RWR: A														
Arcs: 180+					DDS: —														
Search: 48–12					DJM: —														
Track: 30–8					AJM: —														
Lock-On: 7					BJM: —														
Guns: 23 mm GSh-23					Technology:					Load Point Limits: CL : < 5									
To Hit: 7/4/2					None					1/2: < 7									
Ammunition: 2.0										Weight Limit: 4,400 DT : ≥ 7									
Gunsight: TT+0/HT+2/BT+3										Station Limit Allowed Loads									
Ranging: RE										1 and 5 550 BB RP RK EP FT IRM RHM									
AtA/AtG: 5/5										2 and 4 1,100 BB RP RK FT DR IRM									
										3 1,100 EP PP FT									
Bomb System: Manual										Load Notes:									
										1. From 1961, may use AA-2 IRMs. From 1966, may use AA-2C RHMs.									
Notes:																			
1. The Mikoyan-Gurevich MiG-21SM is an all-weather interceptor. It is an improved version of the MiG-21S, with a new engine and an internal GSh-21L cannon. The NATO reporting name for the aircraft is Fishbed-J and for the radar is Jay Bird.																			
2. The thick front canopy gives a +1 modifier to sighting rolls for targets in the 180+ arc.																			
										VPs: 24/16/8/4					v3 0000000 0000-00-00T00:00:00				

<div><div>MiG-21MF</div><div><div>Power APs/DPs:</div><div><div><div>CL</div><div>1/2</div><div>DT</div><div>Fuel</div></div><div><div>AB</div><div>3.5</div><div>2.5</div><div>2.5</div><div>6.0</div></div><div><div>M</div><div>1.5</div><div>1.0</div><div>1.0</div><div>2.0</div></div><div><div>N</div><div>0.0</div><div>0.0</div><div>0.0</div><div>1.0</div></div><div><div>I</div><div>1.0</div><div>1.0</div><div>2.0</div><div>0.0</div></div><div><div>SPBR</div><div>1.0</div><div>2.0</div><div>2.0</div><div>—</div></div></div></div><div><div>Cruise Spd. CL: 6.0</div><div>Restr. Arcs: 180L60–</div></div><div><div>Climb Spd.: 4.5</div><div>Blind Arcs: 30–</div></div><div><div>Visibility: 5</div><div>Internal Fuel: 220</div></div><div><div>Size: +0</div><div>AtA Refuel: No</div></div><div><div>Vulnerability: −2</div><div>Ejection Seat: Std</div></div></div>	<div>Crew: Pilot</div> <div><div>Maneuver DPs:</div><div><div>LR/DR</div><div>1.5</div></div><div><div>VR</div><div>0.5</div></div></div> <div><div>Turn DPs:</div><div><div><div>CL</div><div>1/2</div><div>DT</div></div><div><div>TT</div><div>1.0/1.5</div><div>1.0/1.5</div><div>1.0/1.5</div></div><div><div>HT</div><div>1.5/2.0</div><div>1.5/2.0</div><div>2.0/2.5</div></div><div><div>BT</div><div>2.5/3.0</div><div>2.5/3.0</div><div>2.5/3.0</div></div><div><div>ET</div><div>2.5/3.0</div><div>3.0/3.5</div><div>—</div></div></div></div> <div>Selectable combat flaps. If selected and speed ≤ 4.5, use higher drag and reduce minimum speeds by 0.5.</div>
	<div><div>Speeds and Ceilings</div><div><div><div><div>Alt. Conf. Band Ceil.</div><div>CL 56</div><div>1/2 50</div><div>DT 44</div><div>Dive Speed</div></div><div><div>EH+ 46+</div><div>4.0 – 11.0</div><div>4.5 – 10.0</div><div>—</div><div>12.0</div></div><div><div>VH 36–45</div><div>3.5 – 12.0</div><div>4.0 – 11.0</div><div>5.0 – 9.0</div><div>12.0</div></div><div><div>HI 26–35</div><div>3.0 – 10.5</div><div>3.5 – 9.0</div><div>4.0 – 8.0</div><div>12.0</div></div><div><div>MH 17–25</div><div>2.5 – 9.0</div><div>3.0 – 8.0</div><div>3.0 – 7.0</div><div>10.0</div></div><div><div>ML 8–16</div><div>2.0 – 8.5</div><div>2.5 – 7.5</div><div>2.5 – 6.5</div><div>9.0</div></div><div><div>LO 0–7</div><div>2.0 – 8.0</div><div>2.0 – 7.0</div><div>2.5 – 6.0</div><div>8.5</div></div></div></div><div><div>Climb Capabilities</div><div><div><div><div>CL</div><div>1/2</div><div>DT</div></div><div><div>AB Oth</div><div>AB Oth</div><div>AB Oth</div></div></div><div><div>1.0 0.5</div><div>1.0 0.5</div><div>— —</div></div><div><div>1.0 0.5</div><div>1.0 0.5</div><div>1.0 0.5</div></div><div><div>2.0 0.5</div><div>1.0 0.5</div><div>1.0 0.5</div></div><div><div>3.0 1.0</div><div>2.0 1.0</div><div>1.5 0.5</div></div><div><div>4.0 1.0</div><div>3.0 1.0</div><div>1.5 0.5</div></div><div><div>4.0 2.0</div><div>3.0 1.0</div><div>2.0 1.0</div></div></div><div>EH+ VH HI MH ML LO</div></div></div>
	<div><div><div><div>Radar:</div><div>RP-22 Saphir</div></div><div><div>ECCM:</div><div>0</div></div><div><div>Arcs:</div><div>180+</div></div><div><div>Search:</div><div>48–12</div></div><div><div>Track:</div><div>30–8</div></div><div><div>Lock-On:</div><div>7</div></div></div><div><div><div>ECM:</div><div>IFF</div></div><div><div>RWR:</div><div>A</div></div><div><div>DDS:</div><div>—</div></div><div><div>DJM:</div><div>—</div></div><div><div>AJM:</div><div>—</div></div><div><div>BJM:</div><div>—</div></div></div></div> <div><div>Weapon Stations Diagram:</div></div>
	<div><div><div><div>Guns:</div><div>23 mm GSh-23</div></div><div><div>To Hit:</div><div>7/4/2</div></div><div><div>Ammunition:</div><div>2.0</div></div><div><div>Gunsight:</div><div>TT+0/HT+2/BT+3</div></div><div><div>Ranging:</div><div>RE</div></div><div><div>AtA/AtG:</div><div>5/5</div></div></div><div><div><div>Technology:</div><div>None</div></div></div><div><div><div>Load Point Limits:</div><div>CL : < 5</div></div><div><div>1/2: < 7</div></div><div><div>Weight Limit:</div><div>4,400</div></div><div><div>DT : ≥ 7</div></div></div><div><div><div><div>Station</div><div>Limit</div><div>Allowed Loads</div></div><div><div>1 and 5</div><div>550</div><div>BB RP RK EP FT MDR IRM</div></div><div><div>2 and 4</div><div>1,100</div><div>BB RP RK FT DR MDR IRM</div></div><div><div>3</div><div>1,100</div><div>EP PP FT</div></div></div></div><div><div>Load Notes:</div><div>1. May use AA-2 and AA-8 IRMs. MDRs may only carry two AA-8 IRMs.</div></div></div>
<div><div>Notes:</div><div><div>1. The Mikoyan-Gurevich MiG-21MF is an all-weather interceptor. It is an export version of the MiG-21SM. The NATO reporting name for the aircraft is Fishbed-J and for the radar is Jay Bird.</div><div>2. The thick front canopy gives a +1 modifier to sighting rolls for targets in the 180+ arc.</div></div></div>	<div><div>VPs: 24/16/8/4</div><div><div>v3 0000000</div><div>0000-00-00T00:00:00</div></div></div>

MiG-21bis										Crew: Pilot							
										Maneuver DPs:							
LR/DR		1.5															
VR		0.5															
Turn DPs:																	
Power APs/DPs: ○					CL		1/2		DT								
					AB		3.0		2.5		2.5		5.5				
M					1.5		1.0		1.0		1.5						
N					0.0		0.0		0.0		1.0						
I					1.0		1.0		2.0		0.0						
SPBR					1.0		1.0		1.0		—						
					Cruise Spd. CL: 6.0		Restr. Arcs: 180L 60–										
					Climb Spd.: 5.0		Blind Arcs: 30–										
					Visibility: 5		Internal Fuel: 264										
					Size: +0		AtA Refuel: No										
					Vulnerability: −2		Ejection Seat: Std										
					Selectable combat flaps. If selected and speed ≤ minimum + 2.5, use higher drag and reduce minimum speeds by 0.5.												
Speeds and Ceilings						Climb Capabilities											
Alt. Conf.		CL		1/2		DT		Dive		CL		1/2		DT			
Band Ceil.		56		48		44		Speed		AB Oth		AB Oth		AB Oth			
EH+		46+		4.5 – 13.5		5.0 – 10.5		—		13.5		2.0 1.0		1.0 0.5		EH+	
VH		36–45		3.5 – 13.0		4.0 – 11.0		4.0 – 6.5		13.5		3.0 1.0		2.0 1.0		VH	
HI		26–35		3.0 – 13.0		3.0 – 11.5		3.5 – 6.5		13.5		5.0 1.5		4.0 1.0		HI	
MH		17–25		2.5 – 11.5		3.0 – 11.0		3.0 – 6.5		11.0		6.0 2.0		5.0 2.0		MH	
ML		8–16		2.5 – 9.5		2.5 – 9.5		2.5 – 7.0		9.5		6.0 2.0		6.0 2.0		ML	
LO		0–7		2.0 – 8.5		2.0 – 8.0		2.5 – 7.5		8.5		7.0 3.0		6.0 3.0		LO	

Radar:		RP-22 Saphir-21		ECM:		IFF		Weapon Stations Diagram:									
ECCM:		0		RWR:		B											
Arcs:		180+		DDS:		—											
Search:		54–12		DJM:		—											
Track:		36–8		AJM:		—											
Lock-On:		7		BJM:		—											
Guns:		23 mm GSh-23		Technology:		None		Load Point Limits:				CL : < 3					
To Hit:		6/3/1						1/2: < 5									
Ammunition:		2.0						Weight Limit:				3,930					
Gunsight:		TT+0/HT+1/BT+2										DT : ≥ 5					
Ranging:		RE															
AtA/AtG:		5/5															
Bomb System:		Manual															
Notes:								Load Notes:									
1. The Mikoyan-Gurevich MiG-21bis is an all-weather interceptor. It is a development of the MiG-21SM with an improved engine. The NATO reporting name for the aircraft is Fishbed-L/N and for the radar is Jay Bird.																	
2. Low transonic drag (LTD).																	
3. The thick front canopy gives a +1 modifier to sighting rolls for targets in the 180+ arc.																	
4. Emergency AB (ChR AB) may be used if speed is at least high transonic and altitude is 13 or less. When used, the AB power is 5.0/4.5/4.0 and the fuel use is 7.5. Emergency AB cannot be used for more than two consecutive game turns or more than eight game turns in total.																	
VPs: 24/16/8/4								v3 0000000 0000-00-00T00:00:00									