

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 HFPs/DPs:					
LR/DR		1.0		1.0											
VR				0.0											
Turn DPs:															
		CL		1/2		DT									
TT		1.0		1.0		1.0									
HT		2.0		2.0		2.0									
BT		3.0		4.0		4.0									
ET		4.0		—		—									
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. 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	
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	
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	
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	
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	
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	
Radar: SRD-5MN Baza-6					ECM: IFF					Weapon Stations Diagram:					
ECCM: 0					RWR: —										
Arcs: Limited					DDS: —										
Search: —					DJM: —										
Track: 10–6					AJM: —										
Lock-On: 5					BJM: —										
Guns: Two 30 mm NR-30					Technology:					Load Point Limits:					
To Hit: 5/3/1					None					CL : 0–2					
Ammunition: 2.0										1/2: 3–4					
Gunsight: TT+0/HT+2/BT+3										Weight Limit: 2,200					
Ranging: RE										DT : 5+					
AtA/AtG: 5/6															
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										v2 0000000 0000-00-00T00:00:00					

MiG-21F-13										Crew: Pilot														
										Maneuver HFPs/DPs:														
LR/DR		1.0		1.0																				
VR				0.0																				
Turn DPs:																								
		CL		1/2		DT																		
TT		1.0		1.0		1.0																		
HT		2.0		2.0		2.0																		
BT		3.0		4.0		4.0																		
ET		4.0		—		—																		
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. 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										
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										
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										
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										
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										
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										
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 : 0–2				
To Hit:					4/2/1					None										1/2: 3–4				
Ammunition:					2.0										Weight Limit:					2,200				
Gunsight:					TT+0/HT+2/BT+3										Station					Limit				
Ranging:					RE										1 and 3					550				
AtA/AtG:					4/3										2					1,100				
Bomb System:					Manual										Allowed Loads					BB RP RK DR IRM				
																				FT				
Notes:															Load 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.															1. From 1961, may use AA-2 IRMs.									
2. The thick front canopy gives a +1 modifier to sighting rolls for targets in the 180+ arc.																								

<div><div>MiG-21PF</div><div><div>Power APs/DPs:</div><div><div>CL1/2DTFuel</div><div>AB3.03.02.55.0</div><div>M2.02.01.52.0</div><div>N0.00.00.01.0</div><div>I1.01.01.00.0</div><div>SPBR1.01.02.0—</div></div></div><div><div>Cruise Spd. CL: 6.0</div><div>Restr. Arcs: 180L60—</div><div>Climb Spd.: 4.5</div><div>Blind Arcs: 30—</div><div>Visibility: 5</div><div>Internal Fuel: 225</div><div>Size: +0</div><div>AtA Refuel: No</div><div>Vulnerability: -2</div><div>Ejection Seat: Std</div></div></div>						<div>Crew: Pilot</div> <div><div>Maneuver HFPs/DPs:</div><div><div>LR/DR1.01.0</div><div>VR0.0</div></div><div><div>Turn DPs:</div><div><div>CL1/2DT</div><div>TT1.01.01.0</div><div>HT2.02.02.0</div><div>BT3.04.04.0</div><div>ET4.0—</div></div></div></div>					
						<div>Speeds and Ceilings</div> <div><div><div>Alt. Conf. Band Ceil.</div><div>CL58</div><div>1/256</div><div>DT54</div><div>Dive Speed</div></div><div><div>EH+46+3.5 – 11.03.5 – 10.04.0 – 9.012.0</div><div>VH36–453.0 – 12.03.0 – 11.03.5 – 10.012.0</div><div>HI26–352.5 – 10.03.0 – 9.03.0 – 8.011.0</div><div>MH17–252.0 – 9.02.5 – 8.02.5 – 7.510.0</div><div>ML8–162.0 – 7.52.0 – 7.52.5 – 7.08.0</div><div>LO0–71.5 – 6.52.0 – 6.52.0 – 6.57.0</div></div><div><div>CL Oth</div><div>AB Oth</div><div>1/2 Oth</div><div>DT Oth</div><div></div></div><div><div>1.0 0.5</div><div>1.0 0.5</div><div>2.0 1.0</div><div>2.0 1.0</div><div>3.0 1.5</div><div>4.0 2.0</div></div><div><div>1.0 0.5</div><div>1.0 0.5</div><div>2.0 0.5</div><div>2.0 1.0</div><div>3.0 1.0</div><div>3.0 1.0</div></div><div><div>1.0 0.5</div><div>1.0 0.5</div><div>1.5 0.5</div><div>1.5 0.5</div><div>2.0 1.0</div><div>2.0 1.0</div></div><div>EH+VHHIHMMLLO</div></div>					
						<div>Climb Capabilities</div> <div><div><div>CL Oth</div><div>AB Oth</div><div>1/2 Oth</div><div>DT Oth</div><div></div></div><div><div>1.0 0.5</div><div>1.0 0.5</div><div>2.0 1.0</div><div>2.0 1.0</div><div>3.0 1.5</div><div>4.0 2.0</div></div><div><div>1.0 0.5</div><div>1.0 0.5</div><div>2.0 0.5</div><div>2.0 1.0</div><div>3.0 1.0</div><div>3.0 1.0</div></div><div><div>1.0 0.5</div><div>1.0 0.5</div><div>1.5 0.5</div><div>1.5 0.5</div><div>2.0 1.0</div><div>2.0 1.0</div></div><div>EH+VHHIHMMLLO</div></div>					
<div><div>Radar: RP-21 Sapfir</div><div>ECCM: 0</div><div>Arcs: 180+</div><div>Search: 30–6</div><div>Track: 18–6</div><div>Lock-On: 7</div></div> <div><div>ECM: IFF</div><div>RWR: A</div><div>DDS: —</div><div>DJM: —</div><div>AJM: —</div><div>BJM: —</div></div> <div><div>Weapon Stations Diagram:</div></div>											
<div><div>Guns: —</div><div>To Hit: —</div><div>Ammunition: —</div><div>Gunsight: TT+0/HT+2/BT+3</div><div>Ranging: RE</div><div>AtA/AtG: —</div></div> <div><div>Technology:</div><div>None</div></div> <div><div>Load Point Limits:</div><div>CL : 0–2</div><div>1/2: 3–4</div><div>Weight Limit: 2,200</div><div>DT : 5+</div></div> <div><div>StationLimitAllowed Loads</div><div>1 and 3550BB RP RK DR BRM IRM</div><div>21,100FT</div></div> <div><div>Load Notes:</div><div>1. May use AA-1 BRMs and AA-2 IRMs.</div></div>											
<div><div>Bomb System: Manual</div></div> <div><div>Notes:</div><div>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.</div><div>2. The thick front canopy gives a +1 modifier to sighting rolls for targets in the 180+ arc.</div></div>											
						<div>VPs: 18/12/6/3</div> <div>v2 000000000000-00-00T00:00:00</div>					

MiG-21PFM										Crew: Pilot													
										Maneuver HFPs/DPs:													
LR/DR		1.0		1.0																			
VR				0.0																			
Turn DPs:																							
		CL		1/2		DT																	
TT		1.0/2.0		1.0/2.0		1.0/2.0																	
HT		2.0/3.0		2.0/3.0		3.0/4.0																	
BT		3.0/4.0		4.0/5.0		4.0/5.0																	
ET		4.0/5.0		—		—																	
Power APs/DPs: ○					Cruise Spd. CL: 6.0					Restr. Arcs: 180L													
					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:				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:				—				Load Point Limits: CL : 0–2 1/2: 3–4 Weight Limit: 2,200 DT : 5+							
Guns:				—				Technology:															
To Hit:				—				None															
Ammunition:				—																			
Gunsight:				TT+0/HT+2/BT+3																			
Ranging:				RE												Station Limit Allowed Loads 1 and 3 550 BB RP RK DR BRM IRM 2 1,100 FT GP Load Notes: 1. May use AA-1 BRMs and AA-2 IRMs. 2. Station 2 may carry a GP-9 gunpod.							
AtA/AtG:				—																			
Bomb System:				Manual																			
Notes: 1. The Mikoyan-Gurevich MiG-21PFM is an all-weather interceptor. It is a development of the MiG-21PF with blown flaps, improved RP-21M radar, the capability to carry the GP-9 gun pod, and from 1966 the capability to carry the Kh-66 ASM. The NATO reporting name for the aircraft is Fishbed-F and for the radar is Spin Scan-A. 2. The thick front canopy gives a +1 modifier to sighting rolls for targets in the 180+ arc.																							
VPs: 18/12/6/3										v2 0000000 0000-00-00T00:00:00													

MiG-21FL										Crew: Pilot									
										Maneuver HFPs/DPs:									
LR/DR		1.0		1.0															
VR				0.0															
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												
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:				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: CL : 0−2 1/2: 3−4									
To Hit:				—		None													
Ammunition:				—						Weight Limit: 2,200 DT : 5+									
Gunsight:				TT+0/HT+2/BT+3															
Ranging:				RE						Station Limit Allowed Loads 1 and 3 550 BB RP RK DR FT IRM 2 1,100 FT GP									
AtA/AtG:				—															
Bomb System:				Manual						Load Notes: 1. From 1961, may use AA-2 IRMs. 2. Station 2 may carry a GP-9 gunpod.									
Notes:																			
1. The Mikoyan-Gurevich MiG-21FL is an all-weather interceptor. This is an export version developed from the MiG-21PF, but with the less powerful engine from the MiG-21F, no capability to use the AA-1 missile, and a downgraded version of the RP21 designated R1L. The NATO reporting name for the aircraft is Fishbed-D.																			
2. The thick front canopy gives a +1 modifier to sighting rolls for targets in the 180+ arc.																			
VPs: 18/12/6/3						v2 0000000 0000-00-00T00:00:00													

MiG-21S										Crew: Pilot							
										Maneuver HFPs/DPs:							
LR/DR		1.0		1.0													
VR				0.0													
Power APs/DPs: ○										Turn DPs:							
CL		1/2		DT		Fuel		CL		1/2		DT					
AB		3.0		2.5		2.0		5.0		TT		1.0/2.0 1.0/2.0 1.0/2.0					
M		1.5		1.0		1.0		2.0		HT		2.0/3.0 2.0/3.0 3.0/4.0					
N		0.0		0.0		0.0		1.0		BT		4.0/5.0 4.0/5.0 4.0/5.0					
I		1.0		1.0		2.0		0.0		ET		4.0/5.0 5.0/6.0 —					
SPBR		1.0		2.0		2.0		—		Selectable combat flaps. If selected and speed ≤ 4.5, use higher drag and reduce minimum speeds by 0.5.							
Cruise Spd. CL: 6.0					Restr. Arcs: 180 ^{OL} 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 : 0–4							
Ammunition: —										1/2: 5–6							
Gunsight: TT+0/HT+2/BT+3										Weight Limit: 4,400 DT : 7+							
Ranging: RE										Station Limit Allowed Loads							
AtA/AtG: —										1 and 5 550 BB RP RK EP FT BRM IRM RHM							
Bomb System: Manual										2 and 4 1,100 BB RP RK FT DR IRM							
										3 1,100 EP PP FT GP							
Notes:										Load 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.										1. May use AA-1 BRMs, AA-2 IRMs, and AA-2C RHMs.							
2. The thick front canopy gives a +1 modifier to sighting rolls for targets in the 180+ arc.										2. Station 3 may carry a GP-9 gun pod.							
										VPs: 22/15/7/4							
										v2 0000000 0000-00-00T00:00:00							

MiG-21M										Crew: Pilot									
										Maneuver HFPs/DPs:									
LR/DR		1.0		1.0															
VR				0.0															
Power APs/DPs: ○																			
CL		1/2	DT	Fuel															
AB		3.0	2.5	2.0	5.0														
M		1.5	1.0	1.0	2.0														
N		0.0	0.0	0.0	1.0														
I		1.0	1.0	2.0	0.0														
SPBR		1.0	2.0	2.0	—														
					Cruise Spd. CL: 6.0					Restr. Arcs: 180L									
					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. Band		Conf. Ceil.		CL 56		1/2 50		DT 44		Dive Speed		CL AB Oth		1/2 AB Oth		DT 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-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:					Load Point Limits:									
To Hit: 7/4/2					None					CL : 0–4									
Ammunition: 2.0										1/2: 5–6									
Gunsight: TT+0/HT+2/BT+3										Weight Limit: 4,400									
Ranging: RE										DT : 7+									
AtA/AtG: 5/5																			
Bomb System: Manual										Station Limit Allowed Loads									
										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.									
Notes:																			
1. The Mikoyan-Gurevich MiG-21M is an all-weather interceptor. It is an export version of the MiG-21S, with the RP-21MA radar instead of the RP-22 and armed with an internal GSh-23L gun and AA-2 IRMs. The NATO reporting name for the aircraft is Fishbed-J and for the radar is Spin Scan-B.																			
2. The thick front canopy gives a +1 modifier to sighting rolls for targets in the 180+ arc.																			
VPs: 22/15/7/4										v2 0000000 0000-00-00T00:00:00									

MiG-21SM										Crew: Pilot			
										Maneuver HFPs/DPs:			
LR/DR			1.0	1.0									
VR				0.0									
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					Turn DPs:			
CL 1/2 DT													
AB 3.5 2.5 2.5 6.0										TT 1.0/2.0 1.0/2.0 1.0/2.0			
M 1.5 1.0 1.0 2.0										HT 2.0/3.0 2.0/3.0 3.0/4.0			
N 0.0 0.0 0.0 1.0					BT 4.0/5.0 4.0/5.0 4.0/5.0								
I 1.0 1.0 2.0 0.0					ET 4.0/5.0 5.0/6.0 –								
SPBR 1.0 2.0 2.0 –					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.	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	–	–	
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	
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	
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	
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	
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	
Radar: RP-22 Saphir													
ECCM:		0			ECM:		IFF			Weapon Stations Diagram:			
Arcs:		180+			RWR:		A						
Search:		48–12			DDS:		–						
Track:		30–8			DJM:		–						
Lock-On:		7			AJM:		–						
Guns:		23 mm GSh-23			BJM:		–			Load Point Limits: CL : 0–4 1/2: 5–6 Weight Limit: 4,400 DT : 7+			
To Hit:		7/4/2			Technology:		None						
Ammunition:		2.0											
Gunsight:		TT+0/HT+2/BT+3											
Ranging:		RE											
AtA/AtG:		5/5									Station Limit Allowed Loads		
Bomb System:		Manual									1 and 5 550 BB RP RK EP FT IRM RHM		
Notes:											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. From 1966, may use AA-2C RHMs.		
											VPs: 24/16/8/4		
											v2 00000000 0000-00-00T00:00:00		

MiG-21MF										Crew: Pilot		
										Maneuver HFPs/DPs:		
LR/DR			1.0	1.0								
VR				0.0								
Power APs/DPs: ○					Cruise Spd. CL: 6.0 Restr. Arcs: 180 ^L 60– Climb Spd.: 4.5 Blind Arcs: 30– Visibility: 5 Internal Fuel: 220 Size: +0 AtA Refuel: No Vulnerability: –2 Ejection Seat: Std					Turn DPs:		
CL 1/2 DT												
AB 3.5 2.5 2.5 6.0										TT 1.0/2.0 1.0/2.0 1.0/2.0		
M 1.5 1.0 1.0 2.0										HT 2.0/3.0 2.0/3.0 3.0/4.0		
N 0.0 0.0 0.0 1.0					BT 4.0/5.0 4.0/5.0 4.0/5.0							
I 1.0 1.0 2.0 0.0					ET 4.0/5.0 5.0/6.0 –							
SPBR 1.0 2.0 2.0 –					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. Band	Conf. Ceil.	CL 56	1/2 50	DT 44	Dive Speed	CL AB Oth	1/2 AB Oth	DT 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:		None	Load Point Limits:		CL : 0–4				
To Hit:		7/4/2						1/2: 5–6				
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 MDR IRM				
AtA/AtG:		5/5			2 and 4		1,100	BB RP RK FT DR MDR IRM				
					3		1,100	EP PP FT				
Bomb System:		Manual			Load Notes:		1. May use AA-2 and AA-8 IRMs. MDRs may only carry two AA-8 IRMs.					
Notes:												
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.												
2. The thick front canopy gives a +1 modifier to sighting rolls for targets in the 180+ arc.												
					VPs: 24/16/8/4					v2 0000000 0000-00-00T00:00:00		

<div><div>MiG-21bis</div><div><div>Power APs/DPs:</div><div><div></div><div>CL1/2DTFuel</div><div>AB3.02.52.55.5</div><div>M1.51.01.01.5</div><div>N0.00.00.01.0</div><div>I1.01.02.00.0</div><div>SPBR1.01.01.0—</div></div></div></div> <div data-cs="6" data-kind="parent" data-rs="3"><div><div>Crew: Pilot</div><div><div>Maneuver HFPs/DPs:</div><div><div>LR/DR1.01.0</div><div>VR0.0</div></div><div><div>Turn DPs:</div><div><div>CL1/2DT</div><div>TT1.0/2.01.0/2.02.0/3.0</div><div>HT2.0/3.02.0/3.03.0/4.0</div><div>BT4.0/5.04.0/5.0—</div><div>ET4.0/5.0—</div></div></div></div></div><div><div>Cruise Spd. CL: 6.0</div><div>Restr. Arcs: 180L60—</div><div>Climb Spd.: 5.0</div><div>Blind Arcs: 30—</div><div>Visibility: 5</div><div>Internal Fuel: 264</div><div>Size: +0</div><div>AtA Refuel: No</div><div>Vulnerability: -2</div><div>Ejection Seat: Std</div></div></div> <div><div>Selectable combat flaps. If selected and speed ≤ minimum + 2.5, use higher drag and reduce minimum speeds by 0.5.</div></div>
