

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:																	
Power APs/DPs: ○					LR/DR 1.0 1.0 VR 0.0																	
CL 1/2 DT Fuel																						
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	Cruise Spd. CL: 6.0 Restr. Arcs: 180L 60–																	
SPBR	1.0	1.0	2.0	—	Climb Spd.: 4.5 Blind Arcs: 30– Visibility: 5 Internal Fuel: 200 Size: +0 AtA Refuel: No Vulnerability: -2 Ejection Seat: Std																	
					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 — —																	
Speeds and Ceilings																						
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														
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														
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														
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														
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														
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														
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: None	Load Point Limits: CL : 0–2 1/2: 3–4																	
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										v2.0000000 0000-00-00T00:00:00												

MiG-21F-13					Crew: Pilot												
					Maneuver HFPs/DPs:												
Power APs/DPs: ○					LR/DR	1.0	1.0										
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 —					VR	0.0											
					Turn 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					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 — —												
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:												
To Hit:	4/2/1	None			CL : 0–2 1/2: 3–4												
Ammunition:	2.0				Weight Limit: 2,200												
Gunsight:	TT+0/HT+2/BT+3				DT : 5+												
Ranging:	RE				Station Limit Allowed Loads												
AtA/AtG:	4/3				1 and 3 550 BB RP RK DR IRM												
Bomb System: Manual					2 1,100 FT												
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.																	
					Load Notes: 1. From 1961, may use AA-2 IRMs.												
					VPs: 16/11/5/3												
					v2.0000000 0000-00-00T00:00:00												

MiG-21PF					Crew: Pilot															
					Maneuver HFPs/DPs:															
Power APs/DPs: ○					LR/DR 1.0 1.0 VR 0.0															
CL 1/2 DT Fuel																				
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	Cruise Spd. CL: 6.0 Restr. Arcs: 180L 60–															
SPBR	1.0	1.0	2.0	—	Climb Spd.: 4.5 Blind Arcs: 30– Visibility: 5 Internal Fuel: 225															
					Size: +0 AtA Refuel: No Vulnerability: -2 Ejection Seat: Std															
Speeds and Ceilings																				
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-21 Sapfir				ECM: IFF	Weapon Stations Diagram:															
ECCM:	0	RWR:	A	DDS:																
Arcts:	180+	DJM:	—	AJM:																
Search:	30–6	BJM:	—																	
Track:	18–6																			
Lock-On:	7																			
Guns: —				Technology: None	Load Point Limits: CL : 0–2 1/2: 3–4															
To Hit:	—																			
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: 1. May use AA-1 BRMs and AA-2 IRMs.																
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.																				
VPs: 18/12/6/3										v2.0000000 0000-00-00T00:00:00										

MiG-21PFM										Crew: Pilot								
					Maneuver HFPs/DPs:					LR/DR 1.0 1.0 VR 0.0								
Power APs/DPs: ○					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 — —								
CL 1/2 DT Fuel					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 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															
Arcts:	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		Weight Limit: 2,200						DT : 5+								
Ammunition:	—			Station Limit Allowed Loads														
Gunsight:	TT+0/HT+2/BT+3			1 and 3 550 BB RP RK DR BRM IRM														
Ranging:	RE			2 1,100 FT GP														
AtA/AtG:	—			Load Notes:														
Bomb System: Manual				1. May use AA-1 BRMs and AA-2 IRMs. 2. Station 2 may carry a GP-9 gunpod.														
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:															
Power APs/DPs: ○					LR/DR 1.0 1.0 VR 0.0															
CL 1/2 DT Fuel																				
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	Cruise Spd. CL: 6.0 Restr. Arcs: 180L 60–															
SPBR	1.0	1.0	2.0	—	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																				
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	DDS:																
Arcts:	180+	DJM:	—	AJM:																
Search:	30–6	BJM:	—																	
Track:	18–6																			
Lock-On:	7																			
Guns: —				Technology:																
To Hit:	—	None								Load Point Limits: CL : 0–2 1/2: 3–4										
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 FT IRM										
AtA/AtG:	—									2 1,100 FT GP										
Bomb System: Manual				Load 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.																				
Notes:																				
1. From 1961, may use AA-2 IRMs. 2. Station 2 may carry a GP-9 gunpod.																				
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 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 4.0/5.0 4.0/5.0 4.0/5.0 ET 4.0/5.0 5.0/6.0 —
CL 1/2 DT Fuel					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: 180L Climb Spd.: 4.5 Blind Arcs: 30– Visibility: 5 Internal Fuel: 220 Size: +0 AtA Refuel: No Vulnerability: -2 Ejection Seat: Std
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 —										

MiG-21M					Crew: Pilot												
					Maneuver HFPs/DPs:												
Power APs/DPs: ○					LR/DR	1.0	1.0										
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 —					VR	0.0											
					Turn 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					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 4.0/5.0 4.0/5.0 4.0/5.0 ET 4.0/5.0 5.0/6.0 —												
					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-21MA Sapfir		ECM: IFF		Weapon Stations Diagram:													
ECCM:	0	RWR:	A														
Arcts:	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 1/2: 5–6													
Ammunition:	2.0			Weight Limit: 4,400													
Gunsight:	TT+0/HT+2/BT+3			DT : 7+													
Ranging:	RE			Station													
AtA/AtG:	5/5			Limit													
Bomb System: Manual				Allowed Loads													
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																																																																																
Power APs/DPs: ○										Maneuver HFPs/DPs:																																																																																
AB 3.5 2.5 2.5 6.0 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 —										LR/DR 1.0 1.0 VR 0.0																																																																																
					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					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 4.0/5.0 4.0/5.0 4.0/5.0 ET 4.0/5.0 5.0/6.0 —																																																																																
										Selectable combat flaps. If selected and speed ≤ 4.5, use higher drag and reduce minimum speeds by 0.5.																																																																																
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Radar: RP-22 Saphir			ECM: IFF	Weapon Stations Diagram:																																																																																						
ECCM:	0	RWR:	A																																																																																							
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Guns: 23 mm GSh-23			Technology:		Load Point Limits:					CL : 0–4 1/2: 5–6																																																																																
To Hit:	7/4/2	None																																																																																								
Ammunition:	2.0			Weight Limit: 4,400					DT : 7+																																																																																	
Gunsight:	TT+0/HT+2/BT+3			<table border="1"> <thead> <tr> <th>Station</th> <th>Limit</th> <th>Allowed Loads</th> </tr> </thead> <tbody> <tr> <td>1 and 5</td> <td>550</td> <td>BB RP RK EP FT IRM RHM</td> </tr> <tr> <td>2 and 4</td> <td>1,100</td> <td>BB RP RK FT DR IRM</td> </tr> <tr> <td>3</td> <td>1,100</td> <td>EP PP FT</td> </tr> </tbody> </table>					Station	Limit	Allowed Loads	1 and 5	550	BB RP RK EP FT IRM RHM	2 and 4	1,100	BB RP RK FT DR IRM	3	1,100	EP PP FT																																																																						
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<p>Notes:</p> <ol style="list-style-type: none"> 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. 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																																																																																	

MiG-21MF					Crew: Pilot										
					Maneuver HFPs/DPs:										
Power APs/DPs: ○					LR/DR	1.0	1.0								
CL 1/2 DT Fuel					VR	0.0									
AB	3.5	2.5	2.5	6.0	Turn DPs:										
M	1.5	1.0	1.0	2.0	CL	1/2	DT								
N	0.0	0.0	0.0	1.0	TT	1.0/2.0	1.0/2.0	1.0/2.0							
I	1.0	1.0	2.0	0.0	HT	2.0/3.0	2.0/3.0	3.0/4.0							
SPBR	1.0	2.0	2.0	—	BT	4.0/5.0	4.0/5.0	4.0/5.0							
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					ET	4.0/5.0	5.0/6.0	—							
					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:		Load Point Limits:											
To Hit:	7/4/2	None		CL : 0–4 1/2: 5–6											
Ammunition:	2.0			Weight Limit: 4,400											
Gunsight:	TT+0/HT+2/BT+3			DT : 7+											
Ranging:	RE			Station	Limit	Allowed Loads									
AtA/AtG:	5/5			1 and 5	550	BB RP RK EP FT MDR IRM									
Bomb System: Manual				2 and 4	1,100	BB RP RK FT DR MDR IRM									
				3	1,100	EP PP FT									
Notes:		Load 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.		1. May use AA-2 and AA-8 IRMs. MDRs may only carry two AA-8 IRMs.													
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										

MiG-21bis					Crew: Pilot												
					Maneuver HFPs/DPs:												
Power APs/DPs: ○					LR/DR	1.0	1.0										
CL 1/2 DT Fuel					VR	0.0											
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	Cruise Spd. CL: 6.0	Restr. Arcs: 180L 60-											
SPBR	1.0	1.0	1.0	—	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. Band	Conf. Ceil.	CL 56	1/2 48	DT 44	Dive Speed	CL AB Oth	1/2 AB Oth	DT 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	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	1.5 0.5	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	2.0 1.0	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	3.0 1.0	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	4.0 1.5	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:		Load Point Limits:													
To Hit:	6/3/1	None		CL : 0–2 1/2: 3–4													
Ammunition:	2.0			Weight Limit: 3,930													
Gunsight:	TT+0/HT+1/BT+2			DT : 5+													
Ranging:	RE			Station													
AtA/AtG:	5/5			Limit Allowed Loads													
Bomb System: Manual				1 and 5 1,100 BB RP RK MDR IRM RHM FT													
				2 and 4 550 BB RP RK MDR IRM RHM													
				3 1,100 GP FT													
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								v2.0000000 0000-00-00T00:00:00									