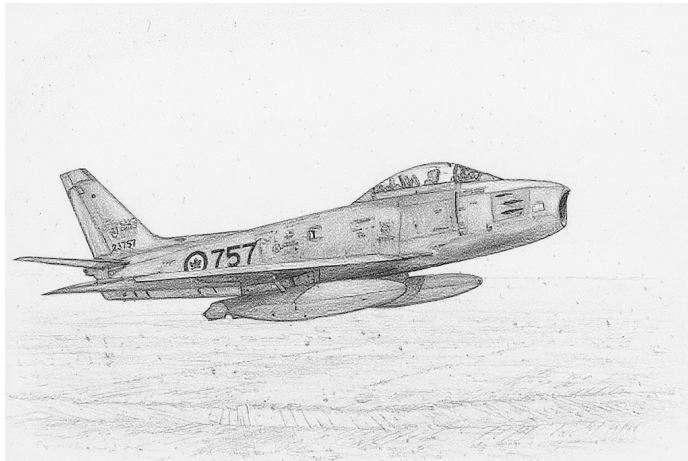


Canadair Sabre



The Canadair Sabre was a day fighter derived from the North American F-86 Sabre. The initial versions were only lightly modified, but later versions incorporated the more powerful Orenda engine. All the production versions were fitted with the original F-86 armament of six .50 cal M3 guns.

Versions

Canadair Sabre Mk.1

The single Mk.1 prototype was very similar to the F-86A.

Canadair Sabre Mk.2

The Mk.2 was the first production version and was essentially a license-built F-86E with the original slatted wing.

They were used by the RCAF in Europe and the USAF. Later, they were passed on to the air forces of Greece and Turkey. In USAF service, they saw combat in the Korean War.

Canadair Sabre Mk.3

The Canadair Sabres began to diverge from the North American originals with the single Mk.3 prototype, which used an Avro Canada Orenda 3 engine with significantly more thrust than that of the Mk.2.

Canadair Sabre Mk.4

The Mk.4 was very similar to the Mk.2. Later Mk.4s had the slatted 6-3 wing.

They were used in small numbers by the RCAF and in larger numbers by the RAF, where they were known as the Sabre F.4 and served alongside the Meteor F.8. They were the first swept-wing fighter in British service. Starting in 1954, they began to be refitted with the 6-3 wing. As Hawker Hunters became available in 1956, the RAF Sabres were transferred to the Yugoslav and Italian air forces.

Canadair Sabre Mk.5

The Mk.5 was a development of the Mk.3 prototype with the improved Orenda 10 engine and the unslatted 6-3 wing.

They were initially used by the RCAF, again mainly in Europe, replacing the Mk.2s. A number were later transferred to the Luftwaffe.

Canadair Sabre Mk.6

The Mk.6 was a development of the Mk.5 with the even more powerful Orenda 14 engine. Later Mk.6s had the slatted 6-3 wing. The Mk.6 competes with the CAC Sabre Mk.32 for the honor of being the very best day-fighter Sabre.

They replaced Mk.5s in RCAF service and also were used in large numbers by the Luftwaffe. These were later sold on to the Columbia, South Africa, and Pakistan. In PAF service, the Mk.6 was known, confusingly, as the F-86E and fought in the 1971 war with India.

Armament and Stores

All the production versions were fitted with the original F-86 armament of six .50 cal M3 guns.

A typical air-to-air load was two 200-gallon (750L) FTs on the outer stations and, from 1960 on the Mk.6, two AIM-9B IRMs on the inner stations.

A typical air-to-ground load was two 1000-lb bombs carried on the inner stations along with two 200-gallon (750L) FTs on the outer stations. Alternatively, on the later versions, sixteen HVAR rockets might have been carried without fuel tanks.

For ferry flights, two 120-gallon (400L) FTs could be carried on the inner stations and two 200-gallon (750L) FTs to the outer ones.

Combat

The Mk.2 saw combat with the USAF in the Korean War. The Mk.6 saw combat with the Pakistan Air Force (as the F-86E) in the 1971 war with India.

ADCs

- Canadair Sabre Mk.2
- Canadair Sabre Mk.4
- Canadair Sabre Mk.4 (6-3 Wing)
- Canadair Sabre Mk.5

- Canadair Sabre Mk.6
- Canadair Sabre Mk.6 (Slatted 6-3 Wing)

See Also

- CAC Sabre
- North American F-86 Sabre

Photo Credit

- Canadair Sabre: Canadian Department of National Defence (Public Domain)

Canadair Sabre Mk.2										Crew: Pilot									
										Maneuver HFPs/DPs:									
LR/DR		1.0		1.0															
VR				0.0															
Power APs/DPs/FPs: ○										Turn DPs:									
CL		1/2		DT		Fuel		CL		1/2		DT							
AB		—		—		—		TT		0.0/0.0		1.0/1.0							
M		1.0		1.0		1.0		HT		1.0/1.0		1.0/1.0							
N		0.0		0.0		0.5		BT		1.0/2.0		2.0/3.0							
I		0.5		0.5		0.0		ET		—		—							
SPBR		0.5		0.5		—													
					Cruise Speed: 5.0					Restr. Arcs: —									
					Climb Speed: 3.5					Blind Arcs: 30–									
					Visibility: 5					Internal Fuel: 145									
					Size: +0					AtA Refuel: No									
					Vulnerability: +0					Ejection Seat: Early									
										Automatic leading-edge slats. If speed ≤ 3.5, use higher drag.									
Speeds and Ceilings										Climb Capabilities									
Alt. Band		Conf. Ceil.		CL 46		1/2 43		DT 40		Dive Speed		CL AB Oth		1/2 AB Oth		DT AB Oth		Alt. Band	
EH+		46+		3.0 – 5.5		—		—		6.5		— 0.5		— —		— —		EH+	
VH		36–45		3.0 – 5.5		3.0 – 5.0		3.0 – 5.0		6.5		— 0.5		— 0.5		— 0.5		VH	
HI		26–35		2.5 – 6.0		3.0 – 5.5		3.0 – 5.0		7.0		— 1.0		— 0.5		— 0.5		HI	
MH		17–25		2.0 – 6.5		2.5 – 5.5		2.5 – 5.0		7.0		— 1.0		— 1.0		— 0.5		MH	
ML		8–16		1.5 – 6.5		2.0 – 6.0		2.5 – 5.5		7.5		— 1.0		— 1.0		— 1.0		ML	
LO		0–7		1.5 – 6.5		1.5 – 6.0		2.0 – 5.5		7.5		— 1.0		— 1.0		— 1.0		LO	

Radar:			APG-30			ECM:			Weapon Stations Diagram:								
ECCM:			—			RWR:						—					
Arcs:			—			DDS:						—					
Search:			—			DJM:						—					
Track:			—			AJM:						—					
Lock-On:			6			BJM:						—					
Guns:			Six .50 cal M3			Technology:			Load Point Limits:			CL : 0–2					
To Hit:			6/3/0			None						1/2: 3–6					
Ammunition:			7.0						Weight Limit:			2,800					
Gunsight:			TT+0/HT+1/BT+2						Station			Limit					
Ranging:			RE						1 and 2			1,400					
AtA/AtG:			4/4**									Allowed Loads					
Bomb System:			Manual									FT RK BB					
Notes:						Load Notes:											
1. The Canadair Sabre Mk.2 is a day fighter. It is a licensed version of the North American F-86E-1 Sabre and uses the early slatted wing. 2. High transonic drag (HTD).						1. Stations must be loaded symmetrically.											
						2. May use 120 gal (450L) FTs. May also use 200 gal (760L) FTs, but only for ferry flights and not for combat.											
						3. May use eight HVAR RKs on each station.											
						VPs: 8/5/3/1						v1 0000000 0000-00-00T00:00:00					

Canadair Sabre Mk.4										Crew: Pilot																			
										Maneuver HFPs/DPs:																			
LR/DR		1.0		1.0																									
VR				0.0																									
Turn DPs:																													
		CL		1/2		DT																							
TT		0.0/0.0		1.0/1.0		1.0/1.0																							
HT		1.0/1.0		1.0/1.0		1.0/1.0																							
BT		1.0/2.0		2.0/3.0		2.0/3.0																							
ET		—		—		—																							
Automatic leading-edge slats. If speed ≤ 3.5, use higher drag.																													
					Cruise Speed: 5.0					Restr. Arcs: —																			
					Climb Speed: 3.5					Blind Arcs: 30–																			
					Visibility: 5					Internal Fuel: 145																			
					Size: +0					AtA Refuel: No																			
					Vulnerability: +0					Ejection Seat: Early																			
Speeds and Ceilings										Climb Capabilities																			
Alt. Band		Conf. Ceil.		CL 46		1/2 43		DT 40		Dive Speed		CL AB Oth		1/2 AB Oth		DT AB Oth		Alt. Band											
EH+		46+		3.0 – 5.5		—		—		6.5		— 0.5		— —		— —		EH+											
VH		36–45		3.0 – 5.5		3.0 – 5.0		3.0 – 5.0		6.5		— 0.5		— 0.5		— 0.5		VH											
HI		26–35		2.5 – 6.0		3.0 – 5.5		3.0 – 5.0		7.0		— 1.0		— 0.5		— 0.5		HI											
MH		17–25		2.0 – 6.5		2.5 – 5.5		2.5 – 5.0		7.0		— 1.0		— 1.0		— 0.5		MH											
ML		8–16		1.5 – 6.5		2.0 – 6.0		2.5 – 5.5		7.5		— 1.0		— 1.0		— 1.0		ML											
LO		0–7		1.5 – 6.5		1.5 – 6.0		2.0 – 5.5		7.5		— 1.0		— 1.0		— 1.0		LO											
Radar:					APG-30					ECM:					Weapon Stations Diagram:														
ECCM:					—					RWR:															—				
Arcs:					—					DDS:															—				
Search:					—					DJM:															—				
Track:					—					AJM:															—				
Lock-On:					6					BJM:															—				
Guns:					Six .50 cal M3					Technology:					Load Point Limits:														
To Hit:					6/3/0					None					CL : 0–2														
Ammunition:					7.0										1/2: 3–6														
Gunsight:					TT+0/HT+1/BT+2										Weight Limit: 2,800														
Ranging:					RE										DT : 7+														
AtA/AtG:					4/4**										Station Limit Allowed Loads														
Bomb System:					Manual										1 and 2 1,400 FT RK BB														
Notes:					1. The Canadair Sabre Mk.4 is a day fighter. It is a licensed version of the North American F-86E-10 Sabre and uses the early slatted wing. 2. High transonic drag (HTD).										Load Notes:														
															1. Stations must be loaded symmetrically.														
															2. May use 120 gal (450L) FTs. May also use 200 gal (760L) FTs, but only for ferry flights and not for combat.														
															3. May use eight HVAR RKs on each station.														
VPs: 8/5/3/1										v1 0000000 0000-00-00T00:00:00																			

Canadair Sabre Mk.4 (6-3 Wing)										Crew: Pilot									
										Maneuver HFPs/DPs:									
Power APs/DPs/FPs: ○										LR/DR 1.0 1.0									
CL 1/2 DT Fuel										VR 0.0									
AB — — — —										Turn DPs:									
M 1.0 1.0 1.0 1.0										CL 1/2 DT									
N 0.0 0.0 0.0 0.5										TT 0.0 1.0 1.0									
I 0.5 0.5 1.0 0.0										HT 1.0 1.0 1.0									
SPBR 0.5 0.5 1.0 —										BT 2.0 3.0 3.0									
										ET — — —									
					Cruise Speed: 5.0 Restr. Arcs: —														
					Climb Speed: 3.5 Blind Arcs: 30–														
					Visibility: 5 Internal Fuel: 145														
					Size: +0 AtA Refuel: No														
					Vulnerability: +0 Ejection Seat: Early														
Speeds and Ceilings										Climb Capabilities									
Alt. Conf.		CL		1/2		DT		Dive		CL		1/2		DT		Alt.			
Band Ceil.		46		43		40		Speed		AB Oth		AB Oth		AB Oth		Band			
EH+		46+		2.5 – 5.5		—		—		6.5		— 0.5		— —		— —			
VH		36–45		2.5 – 6.0		2.5 – 5.0		3.0 – 5.0		6.5		— 0.5		— 0.5		— 0.5			
HI		26–35		2.0 – 6.0		2.5 – 5.5		2.5 – 5.0		7.0		— 1.0		— 0.5		— 0.5			
MH		17–25		2.0 – 6.5		2.5 – 5.5		2.5 – 5.0		7.0		— 1.0		— 1.0		— 0.5			
ML		8–16		2.0 – 6.5		2.0 – 6.0		2.5 – 5.5		7.5		— 1.0		— 1.0		— 1.0			
LO		0–7		2.0 – 6.5		1.5 – 6.0		2.0 – 5.5		7.5		— 1.0		— 1.0		— 1.0			

Radar:			APG-30			ECM:			Weapon Stations Diagram:								
ECCM:			—			RWR:						—					
Arcs:			—			DDS:						—					
Search:			—			DJM:						—					
Track:			—			AJM:						—					
Lock-On:			6			BJM:						—					
Guns:			Six .50 cal M3			Technology:			Load Point Limits:			CL : 0–2					
To Hit:			6/3/0			None						1/2: 3–6					
Ammunition:			7.0						Weight Limit:			4,000 DT : 7+					
Gunsight:			TT+0/HT+1/BT+2						Station			Limit			Allowed Loads		
Ranging:			RE						1 and 4			1,000			BB FT		
AtA/AtG:			4/4**						2 and 3			1,000			BB FT IRM		
Bomb System:			Manual						5–8 and 9–12			280			RK		
Notes:									Load Notes:								
1. The Canadair Sabre Mk.4 is a day fighter. It is licensed version of the North American F-86E-10 Sabre. This variant is refitted with the unslatted 6-3 wing.									1. Either stations 1 to 4 or stations 5 to 12 can be used.								
									2. Stations 5 to 12 can each carry two RKs.								

Canadair Sabre Mk.5										Crew: Pilot									
										Maneuver HFPs/DPs:									
LR/DR		1.0		1.0															
VR				0.0															
Power APs/DPs/FPs: ○										Turn DPs:									
CL		1/2		DT		Fuel		CL		1/2		DT							
AB		—		—		—		TT		0.0		0.0							
M		1.0		1.0		1.0		HT		1.0		1.0							
N		0.0		0.0		0.0		BT		2.0		3.0							
I		0.5		0.5		1.0		ET		—		—							
SPBR		0.5		0.5		1.0													
					Cruise Speed: 5.0 Restr. Arcs: —														
					Climb Speed: 3.5 Blind Arcs: 30–														
					Visibility: 5 Internal Fuel: 145														
					Size: +0 AtA Refuel: No														
					Vulnerability: +0 Ejection Seat: Std														
Speeds and Ceilings										Climb Capabilities									
Alt. Band		Conf. Ceil.		CL 51		1/2 48		DT 45		Dive Speed		CL AB Oth		1/2 AB Oth		DT AB Oth		Alt. Band	
EH+		46+		2.5 – 5.5		3.0 – 5.0		3.0 – 5.0		6.5		— 1.0		— 0.5		— 0.5		EH+	
VH		36–45		2.5 – 6.0		2.5 – 5.5		3.0 – 5.0		6.5		— 1.0		— 1.0		— 0.5		VH	
HI		26–35		2.0 – 6.5		2.5 – 6.0		2.5 – 5.5		7.0		— 1.0		— 1.0		— 1.0		HI	
MH		17–25		2.0 – 6.5		2.5 – 6.5		2.5 – 6.0		7.0		— 1.0		— 1.0		— 1.0		MH	
ML		8–16		2.0 – 6.5		2.0 – 6.0		2.5 – 5.5		7.5		— 1.5		— 1.5		— 1.0		ML	
LO		0–7		2.0 – 7.0		1.5 – 6.0		2.0 – 5.5		7.5		— 2.0		— 2.0		— 1.5		LO	

Radar:			APG-30			ECM:			IFF			Weapon Stations Diagram:												
ECCM:			—			RWR:			—															
Arcs:			—			DDS:			—															
Search:			—			DJM:			—															
Track:			—			AJM:			—															
Lock-On:			7			BJM:			—															
Guns:			Six .50 cal M3			Technology:			None			Load Point Limits:												
To Hit:			6/3/0									CL : 0–2												
Ammunition:			7.0									1/2: 3–6												
Gunsight:			TT+0/HT+1/BT+2									Weight Limit: 4,800												
Ranging:			RE									DT : 7+												
AtA/AtG:			4/4**									Station Limit Allowed Loads												
Bomb System:			Manual									1 and 4 1,400 FT RK												
												2 and 3 1,000 FT RK BB IRM												
												Load Notes:												
												1. Either stations 1 to 4 or stations 5 to 12 can be used.												
												2. Stations 5 to 12 can each carry two RKs.												
Notes:																								
1. The Canadair Sabre Mk.5 is a day fighter. It is a development of the Mk.4 with a more powerful Orenda 10 engine replacing the General Electric J47 and the unslatted 6-3 wing.																								
															VPs: 10/7/3/2									
															v1 0000000 0000-00-00T00:00:00									

Canadair Sabre Mk.6									Crew: Pilot							
									Maneuver HFPs/DPs: LR/DR 1.0 1.0 VR 0.0							
Power APs/DPs/FPs: ○ CL 1/2 DT Fuel AB — — — — M 1.5 1.0 1.0 1.0 N 0.0 0.0 0.0 0.5 I 0.5 0.5 1.0 0.0 SPBR 0.5 0.5 1.0 —									Turn DPs: CL 1/2 DT TT 0.0 0.0 1.0 HT 1.0 1.0 1.0 BT 2.0 2.0 3.0 ET — — —							
					Cruise Speed: 5.0 Restr. Arcs: — Climb Speed: 3.5 Blind Arcs: 30– Visibility: 5 Internal Fuel: 145 Size: +0 AtA Refuel: No Vulnerability: +0 Ejection Seat: Std											
Speeds and Ceilings						Climb Capabilities										
Alt. Band	Conf. Ceil.	CL 54		1/2 51		DT 48		Dive Speed		CL AB Oth		1/2 AB Oth		DT AB Oth		Alt. Band
EH+	46+	2.5 – 5.5		3.0 – 5.0		3.0 – 5.0		6.5		— 1.0		— 0.5		— 0.5		EH+
VH	36–45	2.5 – 6.0		2.5 – 5.5		3.0 – 5.0		6.5		— 1.0		— 1.0		— 0.5		VH
HI	26–35	2.0 – 6.5		2.5 – 6.0		2.5 – 5.5		7.0		— 1.5		— 1.0		— 1.0		HI
MH	17–25	2.0 – 6.5		2.5 – 6.5		2.5 – 6.0		7.0		— 1.5		— 1.5		— 1.0		MH
ML	8–16	2.0 – 6.5		2.0 – 6.0		2.5 – 5.5		7.5		— 1.5		— 1.5		— 1.0		ML
LO	0–7	2.0 – 7.0		1.5 – 6.0		2.0 – 5.5		7.5		— 2.0		— 2.0		— 1.5		LO

Radar:	APG-30	ECM:	IFF	Weapon Stations Diagram:		
ECCM:	—	RWR:	—			
Arcs:	—	DDS:	—			
Search:	—	DJM:	—			
Track:	—	AJM:	—			
Lock-On:	7	BJM:	—			
Guns:	Six .50 cal M3	Technology:	None	Load Point Limits:	CL : 0–2	
To Hit:	6/3/0			1/2: 3–6		
Ammunition:	7.0			Weight Limit:	4,800	DT : 7+
Gunsight:	TT+0/HT+1/BT+2			Station	Limit	Allowed Loads
Ranging:	RE			1 and 4	1,400	FT RK
AtA/AtG:	4/4**		2 and 3	1,000	FT RK BB IRM	
Bomb System:	Manual			Load Notes:		
Notes: 1. The Canadair Sabre Mk.6 is a day fighter. It is a development of the Mk.5 with a more powerful Orenda 14 engine and the unslatted 6-3 wing.				1. Either stations 1 to 4 or stations 5 to 12 can be used.		
				2. Stations 5 to 12 can each carry two RKs.		
				3. From 1960, may use AIM-9B IRMs.		

Canadair Sabre Mk.6 (Slatted 6-3 Wing)										Crew: Pilot									
										Maneuver HFPs/DPs: LR/DR 1.0 1.0 VR 0.0									
Power APs/DPs/FPs: ○										Turn DPs:									
CL 1/2 DT Fuel										CL 1/2 DT									
AB — — — —										TT 0.0/0.0 0.0/0.0 1.0/1.0									
M 1.5 1.0 1.0 1.0										HT 1.0/1.0 1.0/1.0 1.0/1.0									
N 0.0 0.0 0.0 0.5										BT 1.0/2.0 1.0/2.0 2.0/3.0									
I 0.5 0.5 1.0 0.0										ET — — —									
SPBR 0.5 0.5 1.0 —					Cruise Speed: 5.0 Restr. Arcs: —					Automatic leading-edge slats. If speed ≤ 3.5, use higher drag.									
					Climb Speed: 3.5 Blind Arcs: 30–														
					Visibility: 5 Internal Fuel: 145														
					Size: +0 AtA Refuel: No														
					Vulnerability: +0 Ejection Seat: Std														
Speeds and Ceilings										Climb Capabilities									
Alt. Conf.		CL		1/2		DT		Dive		CL		1/2		DT		Alt.			
Band Ceil.		54		51		48		Speed		AB Oth		AB Oth		AB Oth		Band			
EH+		46+		2.5 – 5.5		3.0 – 5.0		3.0 – 5.0		6.5		— 1.0		— 0.5		— 0.5			
VH		36–45		2.5 – 6.0		2.5 – 5.5		2.5 – 5.0		6.5		— 1.0		— 1.0		— 0.5			
HI		26–35		2.0 – 6.5		2.0 – 6.0		2.5 – 5.5		7.0		— 1.5		— 1.0		— 1.0			
MH		17–25		2.0 – 6.5		2.0 – 6.5		2.0 – 6.0		7.0		— 1.5		— 1.5		— 1.0			
ML		8–16		1.5 – 6.5		2.0 – 6.0		2.0 – 5.5		7.5		— 1.5		— 1.5		— 1.0			
LO		0–7		1.5 – 7.0		1.5 – 6.0		1.5 – 5.5		7.5		— 2.0		— 2.0		— 1.5			
Radar: APG-30					ECM: IFF					Weapon Stations Diagram:									
ECCM: —					RWR: —														
Arcs: —					DDS: —														
Search: —					DJM: —														
Track: —					AJM: —														
Lock-On: 7					BJM: —														
Guns: Six .50 cal M3					Technology:					Load Point Limits: CL : 0–2									
To Hit: 6/3/0					None					1/2: 3–6									
Ammunition: 7.0										Weight Limit: 4,800 DT : 7+									
Gunsight: TT+0/HT+1/BT+2										Station Limit Allowed Loads									
Ranging: RE										1 and 4 1,400 FT RK									
AtA/AtG: 4/4**										2 and 3 1,000 FT RK BB IRM									
Bomb System: Manual										Load Notes:									
										1. Either stations 1 to 4 or stations 5 to 12 can be used.									
										2. Stations 5 to 12 can each carry two RKs.									
										3. From 1960, may use AIM-9B IRMs.									
Notes:																			
1. The Canadair Sabre Mk.6 is a day fighter. It is a development of the Mk.5 with a more powerful Orenda 14 engine. This variant has the slatted 6-3 wing in place of the unslatted 6-3 wing of the original Mk.6.																			