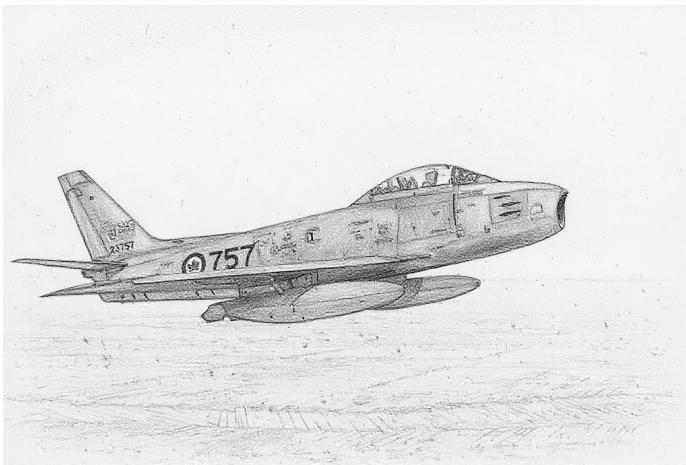


# Canadair Sabre



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)

Speeds and Ceilings						Climb Capabilities					
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL	1/2	DT			
Band	Ceil.	46	43	40		AB	AB	AB			
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
HI	26–35	2.5 – 6.0	3.0 – 5.5	3.0 – 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	1.5 – 6.5	2.0 – 6.0	2.5 – 5.5	7.5	—	1.0	—	1.0	—	1.0
LO	0–7	1.5 – 6.5	1.5 – 6.0	2.0 – 5.5	7.5	—	1.0	—	1.0	—	1.0

<b>Canadair Sabre Mk.4</b>										<b>Crew:</b> Pilot
<b>Power APs/DPs:</b> ○										<b>Maneuver DPs:</b>
CL    1/2    DT    Fuel										LR/DR                          1.5
AB    —    —    —    —										VR                                  0.5
M    1.0    1.0    1.0    1.0										
N    0.0    0.0    0.0    0.5										
I    1.0    1.0    2.0    0.0										
SPBR    1.0    1.0    2.0    —										

Speeds and Ceilings						Climb Capabilities					
Alt. Band	Conf. Ceil.	CL 46	1/2 43	DT 40	Dive Speed	CL AB	1/2 AB	DT AB			
EH+	46+	2.5 – 5.5	—	—	6.5	—	0.5	—	—	—	EH+
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

<b>Radar:</b>	APG-30	<b>ECM:</b>	<b>Weapon Stations Diagram:</b>
ECCM:	—	RWR:	—
Arcs:	—	DDS:	—
Search:	—	DJM:	—
Track:	—	AJM:	—
Lock-On:	6	BJM:	—
<b>Guns:</b>	Six .50 cal M3	<b>Technology:</b>	<b>Load Point Limits:</b> CL : < 3 1/2: < 7
To Hit:	6/3/0	None	<b>Weight Limit:</b> 4,000 DT : ≥ 7
Ammunition:	7.0		<b>Station</b> Limit Allowed Loads
Gunsight:	TT+0/HT+1/BT+2		1 and 4 1,000 BB FT
Ranging:	RE		2 and 3 1,000 BB FT IRM
AtA/AtG:	4/4**		5–8 and 9–12 280 RK
<b>Bomb System:</b>	Manual		<b>Load Notes:</b> 1. Either stations 1 to 4 or stations 5 to 12 can be used. 2. Stations 5 to 12 can each carry two RKS.
<b>Notes:</b>			
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.			
			<b>VPs:</b> 9/6/3/2
			v3.0000000 0000-00-00T00:00:00

<b>Canadair Sabre Mk.5</b>									<b>Crew:</b> Pilot		
									<b>Maneuver DPs:</b>		
									LR/DR	1.5	
									VR	0.5	
<b>Power APs/DPs:</b>									<b>Turn DPs:</b>		
									CL	1/2	DT
AB	—	—	—	—					TT	0.5	0.5
M	1.0	1.0	1.0	1.0					HT	1.0	1.0
N	0.0	0.0	0.0	0.5					BT	1.5	1.5
I	1.0	1.0	2.0	0.0	Cruise Spd. CL: 5.0				ET	—	—
SPBR	1.0	1.0	2.0	—	Restr. Arcs: —						
					Climb Spd.: 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	1/2 AB	DT AB			
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	3.0 – 5.0	6.5	–	1.0	–	1.0	–	0.5
HI	26–35	2.0 – 6.5	2.5 – 6.0	2.5 – 5.5	7.0	–	1.0	–	1.0	–	1.0
MH	17–25	2.0 – 6.5	2.5 – 6.5	2.5 – 6.0	7.0	–	1.0	–	1.0	–	1.0
ML	8–16	2.0 – 6.5	2.0 – 6.0	2.5 – 5.5	7.5	–	1.5	–	1.5	–	1.0
LO	0–7	2.0 – 7.0	1.5 – 6.0	2.0 – 5.5	7.5	–	2.0	–	2.0	–	1.5

<b>Radar:</b>	APG-30	<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>
ECCM:	—	RWR:	—	
Arcs:	—	DDS:	—	
Search:	—	DJM:	—	
Track:	—	AJM:	—	
Lock-On:	7	BJM:	—	
<b>Guns:</b>	Six .50 cal M3	<b>Technology:</b>		<b>Load Point Limits:</b>
To Hit:	6/3/0	None		CL : < 3 1/2: < 7
Ammunition:	7.0			<b>Weight Limit:</b> 4,800 DT : ≥ 7
Gunsight:	TT+0/HT+1/BT+2			
Ranging:	RE			
AtA/AtG:	4/4**			
<b>Bomb System:</b>	Manual			<b>Station</b> <b>Limit</b> <b>Allowed Loads</b>
<b>Notes:</b>				1 and 4      1,400      FT RK 2 and 3      1,000      FT RK BB IRM
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.				
<b>VPs:</b> 10/7/3/2				
v3.0000000 0000-00-00T00:00:00				

<b>Canadair Sabre Mk.6</b>								<b>Crew:</b> Pilot		
								<b>Maneuver DPs:</b>		
								LR/DR	1.5	
								VR	0.5	
<b>Power APs/DPs:</b> ○								<b>Turn DPs:</b>		
								CL	1/2	DT
AB	—	—	—	—				TT	0.5	0.5
M	1.5	1.0	1.0	1.0				HT	1.0	1.0
N	0.0	0.0	0.0	0.5				BT	1.5	1.5
I	1.0	1.0	2.0	0.0	Cruise Spd. CL: 5.0			ET	—	—
SPBR	1.0	1.0	2.0	—	Restr. Arcs: —					
					Climb Spd.: 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	1/2 AB	DT AB			
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	3.0 – 5.0	6.5	–	1.0	–	1.0	–	0.5
HI	26–35	2.0 – 6.5	2.5 – 6.0	2.5 – 5.5	7.0	–	1.5	–	1.0	–	1.0
MH	17–25	2.0 – 6.5	2.5 – 6.5	2.5 – 6.0	7.0	–	1.5	–	1.5	–	1.0
ML	8–16	2.0 – 6.5	2.0 – 6.0	2.5 – 5.5	7.5	–	1.5	–	1.5	–	1.0
LO	0–7	2.0 – 7.0	1.5 – 6.0	2.0 – 5.5	7.5	–	2.0	–	2.0	–	1.5

<b>Radar:</b>	APG-30	<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>
ECCM:	—	RWR:	—	
Arcs:	—	DDS:	—	
Search:	—	DJM:	—	
Track:	—	AJM:	—	
Lock-On:	7	BJM:	—	
<b>Guns:</b>	Six .50 cal M3	<b>Technology:</b>		<b>Load Point Limits:</b> CL : < 3 1/2: < 7
To Hit:	6/3/0	None		<b>Weight Limit:</b> 4,800 DT : ≥ 7
Ammunition:	7.0			
Gunsight:	TT+0/HT+1/BT+2			
Ranging:	RE			
AtA/AtG:	4/4**			
<b>Bomb System:</b>	Manual			<b>Station</b> Limit Allowed Loads
				1 and 4 1,400 FT RK
				2 and 3 1,000 FT RK BB IRM
<b>Notes:</b>				<b>Load Notes:</b>
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 RMs. 3. From 1960, may use AIM-9B IRMs.

Speeds and Ceilings						Climb Capabilities					
Alt. Band	Conf. Ceil.	CL 54	1/2 51	DT 48	Dive Speed	CL AB	1/2 AB	DT AB			
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

<b>Radar:</b>	APG-30	<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>
ECCM:	—	RWR:	—	
Arcs:	—	DDS:	—	
Search:	—	DJM:	—	
Track:	—	AJM:	—	
Lock-On:	7	BJM:	—	
<b>Guns:</b>	Six .50 cal M3	<b>Technology:</b>		<b>Load Point Limits:</b>
To Hit:	6/3/0	None		CL : < 3 1/2: < 7
Ammunition:	7.0			<b>Weight Limit:</b> 4,800 DT : ≥ 7
Gunsight:	TT+0/HT+1/BT+2			
Ranging:	RE			
AtA/AtG:	4/4**			
<b>Bomb System:</b>	Manual			<b>Station</b> <b>Limit</b> <b>Allowed Loads</b>
<b>Notes:</b>				1 and 4      1,400      FT RK 2 and 3      1,000      FT RK BB IRM
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.				<b>Load Notes:</b> 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.
				<b>VPs:</b> 11/7/4/2
				v3.0000000 0000-00-00T00:00:00