North American F-86 Sabre

The North American F-86 Sabre is a single-engined, transsonic fighter, interceptor, fighter-bomber, and tactical nuclear bomber. It was the first swept-wing aircraft to enter service in the USAF. There are many versions and variants of the F-86, split first into the fighter F-86A/E/F/H series and the interceptor F-86D/K/L series and then by engine, provision for stores and armament, and wings. Here we discuss first the fighters and then the interceptors.

The F-86A has a swept wing and a swept tail with conventional control surfaces. It is powered by a J47-GE-7 engine with 5340 lb of dry thrust; only the interceptor versions of the F-86 had afterburners. It is armed with six .50 cal M3 machine guns and the view from the cockpit is excellent. Like many of its contemporaries, it suffers from a very short range on internal fuel, and relied on a pair of either 120 gal or 206 gal fuel tanks on under-wing stations to achieve a useful range. However, the 206 gal tank limits maneuvers to 3G and so can only be used for ferry flights. Instead of fuel tanks, it can carry two bombs of up to 1000 lb or sixteen 5-inch HVAR rockets, but has a very restricted combat range while doing so, and therefore served essentially as a day fighter rather than a fighter bomber. It entered service with the USAF in 1949. It was rushed to Korea to counter Soviet MiG-15s, which were outclassing the straight-wing F-80C fighters already in theater, and saw combat starting in December 1950.

The F-86E improves on the F-86A by having a slightly more powerful J47-GE-13 engine with 5450 lb of dry thrust, the A-1CM radar-ranging gunsight, and an all-flying tail. The new tail significantly improves the handling compared to the F-86A at high transonic speeds. It entered service in February 1951 and arrived in Korea in July 1951.

The F-86F series introduces a series of significant improvements over earlier models. All F-86F variants are powered by the J47-GE-27 engine, producing 5970 lb of dry thrust. The initial F-1 block otherwise closely resembles the F-86E. It entered service in April 1952 and arrived in Korea by June 1952. The F-5 block adds the improved A-4 gunsight. The F-10, F-15, and F-20 blocks permit the use of 200 US gal fuel tanks without maneuver restrictions, greatly enhancing operational range for day fighter missions. These blocks entered service starting in June 1952.

The F-25 and F-30 blocks hugely improve the capability of the F-86 as a fighter bomber. They have a second pair of weapon pylons on the inner wing, allowing the aircraft to carry both a pair of bombs or eight HVAR rockets in addition to a pair of fuel tanks. This configuration provides a much improved range when carrying air-to-ground weapons. The F-25 models entered service in Korea in October 1952.

The F-35 block is specialized as a tactical nuclear bomber, with a strengthened the left inner pylon to permit carriage of the second-generation Mk 12 nuclear bomb and the LABS (Low Altitude Bombing System) to allow toss bombing. It entered service in January 1954 and was based mainly in Europe.

All the versions mentioned to here are equipped with the basic wing with automatic leading-edge slats that increased lift at low speed. In the summer of 1952, North American developed the “6-3 wing” or the “solid 6-3 wing”, which features a 6-inch extension to the chord at the wing root and a 3-inch extension at the wing tip. The resulting larger area gives much better maneuverability at high altitude. The cost is the loss of the automatic slats, which increases the landing speed and the landing roll, and led to accidents when used by inadequately-trained pilots. Starting in September 1952, field-modification kits were provided to add the 6-3 wing to existing F models and later-production F-25/30/35 had them installed in the factory.

The F-86H further refines the F-86 as a fighter bomber. It has a more powerful, albeit heavier, J73-GE-3 engine producing 8900 lb of dry thrust and giving a much improved rate of climb. The initial H-1 block maintains the armament of six 0.50 cal machine guns, but the later H-5/10 blocks have four 20 mm M39 guns each with 150 rounds, finally giving the Sabre a potent air-to-air armament, albeit in a model not intended as a fighter. It entered service in 1954.

The F-86F-40 then appeared initially as a version to be manufactured for the JASDF by Mitsubishi under license. It is similar to the F-25, but features a new wing with 12-inch span extensions at the wing-tips and once more automatic leading-edge slats. As such, it combined the superior high-altitude maneuverability of the 6-3 wing with the lower landing speeds of the basic wing; it was known as the “extended 6-3 wing” or just the “F-40 wing”. This version was also built for the USAF and supplied to many US allies under the MAP (Military Assistance Program), with deliveries starting in 1955. Many earlier F-series aircraft were upgraded to the F-40 standard and the extended 6-3 wing was also refitted to the F-86H, F-86L, and F-86K versions.

The interceptor F-86D/K/L versions of the F-86 are significantly different to the F-86A/E/F/H versions, sharing wings and tail but little else. Informally, they were known as the “Sabre Dog”.

The F-86D has the J47-GE-17 engine with 5500 lb of dry thrust and an afterburner giving 7650 lb; the afterburner was vital to allow the aircraft to quickly climb to the high altitudes at which it was expected to intercept intruding bombers. The larger fuselage allows more internal fuel,

but despite this the F-86D and subsequent interceptors almost always flew with two 120 gal fuel tanks on wing stations. The F-86D has the basic wing and all-flying tail of the F-86E. Its weapon system consisted of an APG-7 radar, twenty-four 70 mm FFAR rockets in an extending ventral tray, and a Hughes E-4 fire-control system linking the two. The combination permitted collision-course rocket attacks from the beam, but presented a heavy workload for the single pilot. Early variants of the aircraft began to be delivered in March 1951, but versions with the E-4 fire control system were only delivered starting in July 1952.

The F-86K is a simplified interceptor developed from F-86D for export under the Military Assistance Program (MAP). The weapon system was reworked, with four 20 mm M24 guns replacing the FFARs and a Hughes MG-4 fire-control system replacing the more advanced E-4 system. The simpler fire-control system no longer had collision-course attacks was capable of tail-chase attacks. Many F-86Ks for European air forces were assembled by Fiat from kits provided by North American; others were built by North American itself. Some F-86Ks have the extended 6-3 wing of the F-40, either as late-production builds or as upgrades.

The F-86L is a rebuild of the F-86D. It has the extended 6-3 wing and updated electronics, including a data link to allow the intercepts to be directly guided by the computerized SAGE system. It entered service in late 1957.

From 1958 onwards, some F-86D, F-86K, and F-86L aircraft were retrofitted with two missile stations inboard of the fuel tanks for the Sidewinder missile. This upgrade enhanced their air-to-air combat capability, particularly against more maneuverable or heavily armed adversaries.

ADCs are provided for:

- F-86A
- F-86D
- F-86E
- F-86F-1
- F-86F-1 (6-3 Wing)
- F-86F-5
- F-86F-5 (6-3 Wing)
- F-86F-10
- F-86F-10 (6-3 Wing)
- F-86F-25
- F-86F-25 (6-3 Wing)
- F-86F-35
- F-86F-35 (6-3 Wing)
- F-86F-40
- F-86H
- F-86H (Extended 6-3 Wing)
- F-86K
- F-86K (Extended 6-3 Wing)
- F-86L

See Also

- CAC Sabre
- Canadair Sabre

F-86A Sabre

Crew: Pilot

Power APs/DPs/FPs: ○

	CL	1/2	DT	Fuel
AB	—	—	—	—
M	1.0	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	—

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

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.

Speeds and Ceilings

Alt. Band	Conf. Ceil.	CL 46	1/2 43	DT 40	Dive Speed
EH+	46+	3.0 – 5.5	—	—	6.5
VH	36–45	3.0 – 5.5	3.0 – 5.0	3.0 – 5.0	6.5
HI	26–35	2.5 – 6.0	3.0 – 5.5	3.0 – 5.0	7.0
MH	17–25	2.0 – 6.5	2.5 – 5.5	2.5 – 5.0	7.0
ML	8–16	1.5 – 6.5	2.0 – 6.0	2.5 – 5.5	7.5
LO	0–7	1.5 – 6.5	1.5 – 6.0	2.0 – 5.5	7.5

Climb Capabilities

Alt. Band	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth	Alt. Band
EH+	—	0.5	—	—	—	—	EH+
VH	—	0.5	—	0.5	—	0.5	VH
HI	—	1.0	—	0.5	—	0.5	HI
MH	—	1.0	—	1.0	—	0.5	MH
ML	—	1.0	—	1.0	—	1.0	ML
LO	—	1.0	—	1.0	—	1.0	LO

Radar:	—
ECCM:	—
Arcs:	—
Search:	—
Track:	—
Lock-On:	—

ECM:	
RWR:	—
DDS:	—
DJM:	—
AJM:	—
BJM:	—

Weapon Stations Diagram:

Guns:	Six .50 cal M3
To Hit:	6/3/0
Ammunition:	7.0
Gunsight:	TT+0/HT+1/BT+2
Ranging:	—
AtA/AtG:	4/4**

Bomb System: Manual

Technology:

None

Load Point Limits: CL : 0–2; 1/2: 3–6; DT : 7+

Weight Limit: 2,800

Station	Limit	Allowed Loads
1 and 2	1,400	FT RK BB

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.

Notes:

1. The North American F-86A Sabre is single-engined, swept-wing day fighter. The F-86A has the early slatted wing, conventional horizontal stabilizers and elevators, and lacks radar ranging.
2. High transonic drag (HTD).
3. Hit rolls at high transonic speed or greater in HI or higher altitude bands have a +1 modifier to the hit roll due to instability generated by the conventional horizontal stabilizers and elevators.

VPs: 8/5/3/1

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F-86D Sabre-Dog

Crew: Pilot

Power APs/DPs/FPs: ○

	CL	1/2	DT	Fuel
AB	1.5	1.0	1.0	3.0
M	1.0	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	—

Smoker in military power (SMP).

Cruise Speed:	5.5	Restr. Arcs:	—
Climb Speed:	3.5	Blind Arcs:	30–
Visibility:	5	Internal Fuel:	205
Size:	+0	AtA Refuel:	No
Vulnerability:	+0	Ejection Seat:	Early

Maneuver HFPs/DPs:

LR/DR	1.0	1.0
VR		0.0

Turn DPs:

	CL	1/2	DT
TT	1.0/1.0	1.0/1.0	1.0/1.0
HT	1.0/1.0	1.0/2.0	1.0/2.0
BT	2.0/3.0	2.0/3.0	2.0/3.0
ET	—	—	—

Automatic leading-edge slats. If speed ≤ 3.5, use higher drag.

Speeds and Ceilings

Alt. Band	Conf. Ceil.	CL 50	1/2 47	DT 44	Dive Speed
EH+	46+	3.0 – 6.0	3.0 – 5.5	—	6.5
VH	36–45	3.0 – 6.0	3.0 – 5.5	3.0 – 5.0	6.5
HI	26–35	2.5 – 6.0	2.5 – 6.0	3.0 – 5.5	7.0
MH	17–25	2.0 – 6.5	2.5 – 6.0	2.5 – 6.0	7.0
ML	8–16	1.5 – 6.5	2.0 – 6.5	2.5 – 6.0	7.5
LO	0–7	1.5 – 7.0	2.0 – 6.5	2.0 – 6.0	7.5

Climb Capabilities

Alt. Band	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth
EH+	1.0	0.5	1.0	0.5	—	—
VH	1.0	0.5	1.0	0.5	1.0	0.5
HI	1.5	0.5	1.0	0.5	1.0	0.5
MH	1.5	1.0	1.0	0.5	1.0	0.5
ML	2.0	1.0	1.5	1.0	1.5	1.0
LO	2.0	1.0	1.5	1.0	1.5	1.0

Radar:	APG-36	**ECM:**	IFF
ECCM:	0	RWR:	—
Arcs:	180+	DDS:	—
Search:	70–10	DJM:	—
Track:	40–8	AJM:	—
Lock-On:	6	BJM:	—

Weapon Stations Diagram:

Guns:	—
To Hit:	—
Ammunition:	—
Gunsight:	TT+0/HT+1/BT+2
Ranging:	RE
AtA/AtG:	—
Bomb System:	Manual

Technology:

CC Rocket Attack

Load Point Limits: CL : 0–2; 1/2: 3–6; DT : 7+

Weight Limit: 2,400

Station	Limit	Allowed Loads
1 and 5	1,000	FT
2 and 4	200	IRM
3	0	

Load Notes:

1. Stations must be loaded symmetrically.
2. May use 120 gal (450L) FTs.
3. From 1958, may use AIM-9B IRMs.
4. Station 3 is an internal rocket tray with 2 factors of air-to-air rockets.

Notes:

1. The North America F-86D Sabre-Dog is a single-engined, swept-wing all-weather interceptor. The F-86D is a extensively modification of the F-86A. The F-86D has the early slatted wing and an all-flying tail (which appears on all subsequent derived versions). It is armed with 24 FFARs in a ventral tray. The APG-36 radar and Hughes E-4 fire-control system allow collision-course rocket attacks.
2. High transonic drag (HTD).

VPs: 11/7/4/2

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F-86E Sabre

Crew: Pilot

Power APs/DPs/FPs: ○

	CL	1/2	DT	Fuel
AB	—	—	—	—
M	1.0	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	—

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

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.

Speeds and Ceilings

Alt. Band	Conf. Ceil.	CL 46	1/2 43	DT 40	Dive Speed
EH+	46+	3.0 – 5.5	—	—	6.5
VH	36–45	3.0 – 5.5	3.0 – 5.0	3.0 – 5.0	6.5
HI	26–35	2.5 – 6.0	3.0 – 5.5	3.0 – 5.0	7.0
MH	17–25	2.0 – 6.5	2.5 – 5.5	2.5 – 5.0	7.0
ML	8–16	1.5 – 6.5	2.0 – 6.0	2.5 – 5.5	7.5
LO	0–7	1.5 – 6.5	1.5 – 6.0	2.0 – 5.5	7.5

Climb Capabilities

Alt. Band	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth	Alt. Band
EH+	—	0.5	—	—	—	—	EH+
VH	—	0.5	—	0.5	—	0.5	VH
HI	—	1.0	—	0.5	—	0.5	HI
MH	—	1.0	—	1.0	—	0.5	MH
ML	—	1.0	—	1.0	—	1.0	ML
LO	—	1.0	—	1.0	—	1.0	LO

Radar:	APG-30
ECCM:	—
Arcs:	—
Search:	—
Track:	—
Lock-On:	6

ECM:	
RWR:	—
DDS:	—
DJM:	—
AJM:	—
BJM:	—

Weapon Stations Diagram:

Guns:	Six .50 cal M3
To Hit:	6/3/0
Ammunition:	7.0
Gunsight:	TT+0/HT+1/BT+2
Ranging:	RE
AtA/AtG:	4/4**

Technology:

None

Bomb System: Manual

Load Point Limits: CL : 0–2; 1/2: 3–6; DT : 7+

Weight Limit: 2,800

Station	Limit	Allowed Loads
1 and 2	1,400	FT RK BB

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.

Notes:

1. The North American F-86E Sabre is single-engined, swept-wing, fighter. The F-86E is derived from the F-86A and has the early slatted wing, but an all-flying tail and radar ranging (both of which appear on all subsequent derived versions).
2. High transonic drag (HTD).

VPs: 8/5/3/1

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F-86F-1 Sabre

Power APs/DPs/FPs: ○

	CL	1/2	DT	Fuel
AB	—	—	—	—
M	1.0	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	—

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

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.

Speeds and Ceilings

Alt. Band	Conf. Ceil.	CL 48	1/2 45	DT 42	Dive Speed
EH+	46+	3.0 – 5.5	—	—	6.5
VH	36–45	3.0 – 5.5	3.0 – 5.0	3.0 – 5.0	6.5
HI	26–35	2.5 – 6.0	3.0 – 5.5	3.0 – 5.0	7.0
MH	17–25	2.0 – 6.5	2.5 – 5.5	2.5 – 5.0	7.0
ML	8–16	1.5 – 6.5	2.0 – 6.0	2.5 – 5.5	7.5
LO	0–7	1.5 – 6.5	1.5 – 6.0	2.0 – 5.5	7.5

Climb Capabilities

Alt. Band	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth	Alt. Band
EH+	—	0.5	—	—	—	—	EH+
VH	—	0.5	—	0.5	—	0.5	VH
HI	—	1.0	—	0.5	—	0.5	HI
MH	—	1.0	—	1.0	—	0.5	MH
ML	—	1.5	—	1.0	—	1.0	ML
LO	—	1.5	—	1.5	—	1.0	LO

Radar:	APG-30
ECCM:	—
Arcs:	—
Search:	—
Track:	—
Lock-On:	6

ECM:	IFF
RWR:	—
DDS:	—
DJM:	—
AJM:	—
BJM:	—

Weapon Stations Diagram:

Guns:	Six .50 cal M3
To Hit:	6/3/0
Ammunition:	7.0
Gunsight:	TT+0/HT+1/BT+2
Ranging:	RE
AtA/AtG:	4/4**

Bomb System: Manual

Technology:

None

Load Point Limits: CL : 0–2; 1/2: 3–6; DT : 7+

Weight Limit: 2,800

Station	Limit	Allowed Loads
1 and 2	1,400	FT RK BB

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.

Notes:

1. The North American F-86F Sabre is a single-engined, swept-wing, day fighter. The F-86F-1 is derived from the F-86E, but gains a more powerful engine. This variant is the original with the early slatted wing.
2. High transonic drag (HTD).

VPs: 9/6/3/2

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F-86F-1 Sabre (6-3 Wing)

Power APs/DPs/FPs: ○

	CL	1/2	DT	Fuel
AB	—	—	—	—
M	1.0	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	—

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

Crew: Pilot

Maneuver HFPs/DPs:

LR/DR	1.0	1.0
VR		0.0

Turn DPs:

	CL	1/2	DT
TT	0.0	1.0	1.0
HT	1.0	1.0	1.0
BT	2.0	3.0	3.0
ET	—	—	—

Speeds and Ceilings

Alt. Band	Conf. Ceil.	CL 48	1/2 45	DT 42	Dive Speed
EH+	46+	2.5 – 5.5	—	—	6.5
VH	36–45	2.5 – 6.0	2.5 – 5.0	3.0 – 5.0	6.5
HI	26–35	2.0 – 6.0	2.5 – 5.5	2.5 – 5.0	7.0
MH	17–25	2.0 – 6.5	2.5 – 5.5	2.5 – 5.0	7.0
ML	8–16	2.0 – 6.5	2.0 – 6.0	2.5 – 5.5	7.5
LO	0–7	1.5 – 6.5	1.5 – 6.0	2.0 – 5.5	7.5

Climb Capabilities

Alt. Band	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth	Alt. Band
EH+	—	0.5	—	—	—	—	EH+
VH	—	0.5	—	0.5	—	0.5	VH
HI	—	1.0	—	0.5	—	0.5	HI
MH	—	1.0	—	1.0	—	0.5	MH
ML	—	1.5	—	1.0	—	1.0	ML
LO	—	1.5	—	1.5	—	1.0	LO

Radar:	APG-30	**ECM:**	IFF
ECCM:	—	RWR:	—
Arcs:	—	DDS:	—
Search:	—	DJM:	—
Track:	—	AJM:	—
Lock-On:	6	BJM:	—

Guns:	Six .50 cal M3
To Hit:	6/3/0
Ammunition:	7.0
Gunsight:	TT+0/HT+1/BT+2
Ranging:	RE
AtA/AtG:	4/4**

Bomb System: Manual

Technology:

None

Weapon Stations Diagram:

Load Point Limits: CL : 0–2; 1/2: 3–6; DT : 7+

Weight Limit: 2,800

Station	Limit	Allowed Loads
1 and 2	1,400	FT RK BB

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.

Notes:

1. The North American F-86F Sabre is a single-engined, swept-wing, day fighter. The F-86F-1 is derived from the F-86E, but gains a more powerful engine. This variant is modified with the unslatted 6-3 wing, which gives better maneuverability at altitude but raises the landing and stall speed.

VPs: 9/6/3/2

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F-86F-5 Sabre

Crew: Pilot

Power APs/DPs/FPs: ○

	CL	1/2	DT	Fuel
AB	—	—	—	—
M	1.0	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	—

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	—	—	—

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

Alt. Band	Conf. Ceil.	CL 48	1/2 45	DT 42	Dive Speed
EH+	46+	3.0 – 5.5	—	—	6.5
VH	36–45	3.0 – 5.5	3.0 – 5.0	3.0 – 5.0	6.5
HI	26–35	2.5 – 6.0	3.0 – 5.5	3.0 – 5.0	7.0
MH	17–25	2.0 – 6.5	2.5 – 5.5	2.5 – 5.0	7.0
ML	8–16	1.5 – 6.5	2.0 – 6.0	2.5 – 5.5	7.5
LO	0–7	1.5 – 6.5	1.5 – 6.0	2.0 – 5.5	7.5

Climb Capabilities

Alt. Band	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth	Alt. Band
EH+	—	0.5	—	—	—	—	EH+
VH	—	0.5	—	0.5	—	0.5	VH
HI	—	1.0	—	0.5	—	0.5	HI
MH	—	1.0	—	1.0	—	0.5	MH
ML	—	1.5	—	1.0	—	1.0	ML
LO	—	1.5	—	1.5	—	1.0	LO

Radar:	APG-30	**ECM:**	IFF
ECCM:	—	RWR:	—
Arcs:	—	DDS:	—
Search:	—	DJM:	—
Track:	—	AJM:	—
Lock-On:	6	BJM:	—

Weapon Stations Diagram:

Guns:	Six .50 cal M3
To Hit:	6/3/0
Ammunition:	7.0
Gunsight:	TT+0/HT+1/BT+2
Ranging:	RE
AtA/AtG:	4/4**
Bomb System:	Manual

Technology:

None

Load Point Limits: CL : 0–2; 1/2: 3–6; DT : 7+

Weight Limit: 2,800

Station	Limit	Allowed Loads
1 and 2	1,400	FT RK BB

Load Notes:

1. Stations must be loaded symmetrically.
2. The F-86F-5 may use 120 gal (450L) or 200 gal (760L) FTs.
3. May use eight HVAR RKs on each station.

Notes:

1. The North American F-86F Sabre is a single-engined, swept-wing, day fighter. The F-86F-5 is derived from the F-86E, and gains a more powerful engine and a better combat range as they can carry the larger 200 gal fuel tank in combat. This variant is the original with the early slatted wing.
2. High transonic drag (HTD).

VPs: 9/6/3/2

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F-86F-5 Sabre (6-3 Wing)

Crew: Pilot

Power APs/DPs/FPs: ○

	CL	1/2	DT	Fuel
AB	—	—	—	—
M	1.0	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	—

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

Maneuver HFPs/DPs:

LR/DR	1.0	1.0
VR		0.0

Turn DPs:

	CL	1/2	DT
TT	0.0	1.0	1.0
HT	1.0	1.0	1.0
BT	2.0	3.0	3.0
ET	—	—	—

Speeds and Ceilings

Alt. Band	Conf. Ceil.	CL 48	1/2 45	DT 42	Dive Speed
EH+	46+	2.5 – 5.5	—	—	6.5
VH	36–45	2.5 – 6.0	2.5 – 5.0	3.0 – 5.0	6.5
HI	26–35	2.0 – 6.0	2.5 – 5.5	2.5 – 5.0	7.0
MH	17–25	2.0 – 6.5	2.5 – 5.5	2.5 – 5.0	7.0
ML	8–16	2.0 – 6.5	2.0 – 6.0	2.5 – 5.5	7.5
LO	0–7	1.5 – 6.5	1.5 – 6.0	2.0 – 5.5	7.5

Climb Capabilities

Alt. Band	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth	Alt. Band
EH+	—	0.5	—	—	—	—	EH+
VH	—	0.5	—	0.5	—	0.5	VH
HI	—	1.0	—	0.5	—	0.5	HI
MH	—	1.0	—	1.0	—	0.5	MH
ML	—	1.5	—	1.0	—	1.0	ML
LO	—	1.5	—	1.5	—	1.0	LO

Radar:	APG-30
ECCM:	—
Arcs:	—
Search:	—
Track:	—
Lock-On:	6

ECM:	IFF
RWR:	—
DDS:	—
DJM:	—
AJM:	—
BJM:	—

Weapon Stations Diagram:

Guns:	Six .50 cal M3
To Hit:	6/3/0
Ammunition:	7.0
Gunsight:	TT+0/HT+1/BT+2
Ranging:	RE
AtA/AtG:	4/4**

Technology:

None

Bomb System: Manual

Load Point Limits: CL : 0–2; 1/2: 3–6; DT : 7+

Weight Limit: 2,800

Station	Limit	Allowed Loads
1 and 2	1,400	FT RK BB

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.

Notes:

1. The North American F-86F Sabre is a single-engined, swept-wing, day fighter. The F-86F-5 is derived from the F-86E, and gains a more powerful engine and a better combat range as they can carry the larger 200 gal fuel tank in combat. This variant is modified with the unslatted 6-3 wing, which gives better maneuverability at altitude but raises the landing and stall speed.

VPs: 9/6/3/2

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F-86F-10 Sabre

Power APs/DPs/FPs: ○

	CL	1/2	DT	Fuel
AB	—	—	—	—
M	1.0	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	—

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

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.

Speeds and Ceilings

Alt. Band	Conf. Ceil.	CL 48	1/2 45	DT 42	Dive Speed
EH+	46+	3.0 – 5.5	—	—	6.5
VH	36–45	3.0 – 5.5	3.0 – 5.0	3.0 – 5.0	6.5
HI	26–35	2.5 – 6.0	3.0 – 5.5	3.0 – 5.0	7.0
MH	17–25	2.0 – 6.5	2.5 – 5.5	2.5 – 5.0	7.0
ML	8–16	1.5 – 6.5	2.0 – 6.0	2.5 – 5.5	7.5
LO	0–7	1.5 – 6.5	1.5 – 6.0	2.0 – 5.5	7.5

Climb Capabilities

Alt. Band	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth	Alt. Band
EH+	—	0.5	—	—	—	—	EH+
VH	—	0.5	—	0.5	—	0.5	VH
HI	—	1.0	—	0.5	—	0.5	HI
MH	—	1.0	—	1.0	—	0.5	MH
ML	—	1.5	—	1.0	—	1.0	ML
LO	—	1.5	—	1.5	—	1.0	LO

Radar:	APG-30	**ECM:**	IFF
ECCM:	—	RWR:	—
Arcs:	—	DDS:	—
Search:	—	DJM:	—
Track:	—	AJM:	—
Lock-On:	7	BJM:	—

Weapon Stations Diagram:

Guns:	Six .50 cal M3
To Hit:	6/3/0
Ammunition:	7.0
Gunsight:	TT+0/HT+1/BT+2
Ranging:	RE
AtA/AtG:	4/4**
Bomb System:	Manual

Technology:

None

Load Point Limits: CL : 0–2; 1/2: 3–6; DT : 7+

Weight Limit: 2,800

Station	Limit	Allowed Loads
1 and 2	1,400	FT RK BB

Load Notes:

1. Stations must be loaded symmetrically.
2. The F-86F-5 may use 120 gal (450L) or 200 gal (760L) FTs.
3. May use eight HVAR RKs on each station.

Notes:

1. The North American F-86F-10 Sabre is a single-engined, swept-wing, fighter-bomber. The F-86F-10 is derived from the F-86F-5, but has the improved A-4 gunsight. The F-86F-15/20 are similar. This variant is the original, with the early slatted wing.
2. High transonic drag (HTD).

VPs: 9/6/3/2

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F-86F-10 Sabre (6-3 Wing)

Power APs/DPs/FPs: ○

	CL	1/2	DT	Fuel
AB	—	—	—	—
M	1.0	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	—

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

Crew: Pilot

Maneuver HFPs/DPs:

LR/DR	1.0	1.0
VR		0.0

Turn DPs:

	CL	1/2	DT
TT	0.0	1.0	1.0
HT	1.0	1.0	1.0
BT	2.0	3.0	3.0
ET	—	—	—

Speeds and Ceilings

Alt. Band	Conf. Ceil.	CL 48	1/2 45	DT 42	Dive Speed
EH+	46+	2.5 – 5.5	—	—	6.5
VH	36–45	2.5 – 6.0	2.5 – 5.0	3.0 – 5.0	6.5
HI	26–35	2.0 – 6.0	2.5 – 5.5	2.5 – 5.0	7.0
MH	17–25	2.0 – 6.5	2.5 – 5.5	2.5 – 5.0	7.0
ML	8–16	2.0 – 6.5	2.0 – 6.0	2.5 – 5.5	7.5
LO	0–7	1.5 – 6.5	1.5 – 6.0	2.0 – 5.5	7.5

Climb Capabilities

Alt. Band	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth	Alt. Band
EH+	—	0.5	—	—	—	—	EH+
VH	—	0.5	—	0.5	—	0.5	VH
HI	—	1.0	—	0.5	—	0.5	HI
MH	—	1.0	—	1.0	—	0.5	MH
ML	—	1.5	—	1.0	—	1.0	ML
LO	—	1.5	—	1.5	—	1.0	LO

Radar:	APG-30
ECCM:	—
Arcs:	—
Search:	—
Track:	—
Lock-On:	7

ECM:	IFF
RWR:	—
DDS:	—
DJM:	—
AJM:	—
BJM:	—

Weapon Stations Diagram:

Guns:	Six .50 cal M3
To Hit:	6/3/0
Ammunition:	7.0
Gunsight:	TT+0/HT+1/BT+2
Ranging:	RE
AtA/AtG:	4/4**

Bomb System: Manual

Technology:

None

Load Point Limits: CL : 0–2; 1/2: 3–6; DT : 7+

Weight Limit: 2,800

Station	Limit	Allowed Loads
1 and 2	1,400	FT RK BB

Load Notes:

1. Stations must be loaded symmetrically.
2. The F-86F-5 may use 120 gal (450L) or 200 gal (760L) FTs.
3. May use eight HVAR RKs on each station.

Notes:

1. The North American F-86F-10 Sabre is a single-engined, swept-wing, fighter-bomber. The F-86F-10 is derived from the F-86F-5, but has the improved A-4 gunsight. The F-86F-15/20 are similar. This variant is modified with the unslatted 6-3 wing, which gives better maneuverability at altitude but raises the landing and stall speed.

VPs: 9/6/3/2

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F-86F-25 Sabre

Crew: Pilot

Power APs/DPs/FPs: ○

	CL	1/2	DT	Fuel
AB	—	—	—	—
M	1.0	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	—

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

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.

Speeds and Ceilings

Alt. Band	Conf. Ceil.	CL 48	1/2 45	DT 42	Dive Speed
EH+	46+	3.0 – 5.5	—	—	6.5
VH	36–45	3.0 – 5.5	3.0 – 5.0	3.0 – 5.0	6.5
HI	26–35	2.5 – 6.0	3.0 – 5.5	3.0 – 5.0	7.0
MH	17–25	2.0 – 6.5	2.5 – 5.5	2.5 – 5.0	7.0
ML	8–16	1.5 – 6.5	2.0 – 6.0	2.5 – 5.5	7.5
LO	0–7	1.5 – 6.5	1.5 – 6.0	2.0 – 5.5	7.5

Climb Capabilities

Alt. Band	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth	Alt. Band
EH+	—	0.5	—	—	—	—	EH+
VH	—	0.5	—	0.5	—	0.5	VH
HI	—	1.0	—	0.5	—	0.5	HI
MH	—	1.0	—	1.0	—	0.5	MH
ML	—	1.5	—	1.0	—	1.0	ML
LO	—	1.5	—	1.5	—	1.0	LO

Radar:	APG-30
ECCM:	—
Arcs:	—
Search:	—
Track:	—
Lock-On:	7

ECM:	IFF
RWR:	—
DDS:	—
DJM:	—
AJM:	—
BJM:	—

Weapon Stations Diagram:

Guns:	Six .50 cal M3
To Hit:	6/3/0
Ammunition:	7.0
Gunsight:	TT+0/HT+1/BT+2
Ranging:	RE
AtA/AtG:	4/4**

Technology:

None

Bomb System: Manual

Load Point Limits: CL : 0–2; 1/2: 3–6; DT : 7+

Weight Limit: 4,800

Station	Limit	Allowed Loads
1 and 4	1,400	FT RK
2 and 3	1,000	FT RK BB IRM

Load Notes:

1. Stations must be loaded symmetrically.
2. May use 200 gal (760L) FTs on stations 1 and 4 and 120 gal (450L) FTs on stations 2 and 3.
3. May use four HVAR RKs on each station. If RKs are carried on stations 1 and 4, they must also be carried on stations 2 and 3.
4. From 1958, may use AIM-9B IRMs.

Notes:

1. The North American F-86F-25 Sabre is a single-engined, swept-wing, fighter-bomber. The F-86F-25 is derived from the F-86F-15/20, but has a second pair of weapon stations on the inner wing, allowing the aircraft to carry bombs or rockets in addition to a pair of 200 gal fuel tanks and giving it for the first time a useful range when used as a fighter-bomber. The F-86F-30 is similar. This variant is the original, with the early slatted wing.
2. High transonic drag (HTD).

VPs: 9/6/3/2

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F-86F-25 Sabre (6-3 Wing)

Power APs/DPs/FPs: ○

	CL	1/2	DT	Fuel
AB	—	—	—	—
M	1.0	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	—

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

Crew: Pilot

Maneuver HFPs/DPs:

LR/DR	1.0	1.0
VR		0.0

Turn DPs:

	CL	1/2	DT
TT	0.0	1.0	1.0
HT	1.0	1.0	1.0
BT	2.0	3.0	3.0
ET	—	—	—

Speeds and Ceilings

Alt. Band	Conf. Ceil.	CL 48	1/2 45	DT 42	Dive Speed
EH+	46+	2.5 – 5.5	—	—	6.5
VH	36–45	2.5 – 6.0	2.5 – 5.0	3.0 – 5.0	6.5
HI	26–35	2.0 – 6.0	2.5 – 5.5	2.5 – 5.0	7.0
MH	17–25	2.0 – 6.5	2.5 – 5.5	2.5 – 5.0	7.0
ML	8–16	2.0 – 6.5	2.0 – 6.0	2.5 – 5.5	7.5
LO	0–7	1.5 – 6.5	1.5 – 6.0	2.0 – 5.5	7.5

Climb Capabilities

Alt. Band	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth	Alt. Band
EH+	—	0.5	—	—	—	—	EH+
VH	—	0.5	—	0.5	—	0.5	VH
HI	—	1.0	—	0.5	—	0.5	HI
MH	—	1.0	—	1.0	—	0.5	MH
ML	—	1.5	—	1.0	—	1.0	ML
LO	—	1.5	—	1.5	—	1.0	LO

Radar:	APG-30	**ECM:**	IFF
ECCM:	—	RWR:	—
Arcs:	—	DDS:	—
Search:	—	DJM:	—
Track:	—	AJM:	—
Lock-On:	7	BJM:	—

Weapon Stations Diagram:

Guns:	Six .50 cal M3
To Hit:	6/3/0
Ammunition:	7.0
Gunsight:	TT+0/HT+1/BT+2
Ranging:	RE
AtA/AtG:	4/4**
Bomb System:	Manual

Technology:

None

Load Point Limits: CL : 0–2; 1/2: 3–6; DT : 7+

Weight Limit: 4,800

Station	Limit	Allowed Loads
1 and 4	1,400	FT RK
2 and 3	1,000	FT RK BB IRM

Load Notes:

1. Stations must be loaded symmetrically.
2. May use 200 gal (760L) FTs on stations 1 and 4 and 120 gal (450L) FTs on stations 2 and 3.
3. May use four HVAR RKs on each station. If RKs are carried on stations 1 and 4, they must also be carried on stations 2 and 3.
4. From 1958, may use AIM-9B IRMs.

Notes:

1. The North American F-86F-25 Sabre is a single-engined, swept-wing, fighter-bomber. The F-86F-25 is derived from the F-86F-15/20, but has a second pair of weapon stations on the inner wing, allowing the aircraft to carry bombs or rockets in addition to a pair of 200 gal fuel tanks and giving it for the first time a useful range when used as a fighter-bomber. The F-86F-30 is similar. This variant is a late-production or modified aircraft with the unslatted 6-3 wing, which gives better maneuverability at altitude but raises the landing and stall speed.

VPs: 9/6/3/2

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F-86F-35 Sabre

Crew: Pilot

Power APs/DPs/FPs: ○

	CL	1/2	DT	Fuel
AB	—	—	—	—
M	1.0	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	—

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

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.

Speeds and Ceilings

Alt. Band	Conf. Ceil.	CL 48	1/2 45	DT 42	Dive Speed
EH+	46+	3.0 – 5.5	—	—	6.5
VH	36–45	3.0 – 5.5	3.0 – 5.0	3.0 – 5.0	6.5
HI	26–35	2.5 – 6.0	3.0 – 5.5	3.0 – 5.0	7.0
MH	17–25	2.0 – 6.5	2.5 – 5.5	2.5 – 5.0	7.0
ML	8–16	1.5 – 6.5	2.0 – 6.0	2.5 – 5.5	7.5
LO	0–7	1.5 – 6.5	1.5 – 6.0	2.0 – 5.5	7.5

Climb Capabilities

Alt. Band	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth	Alt. Band
EH+	—	0.5	—	—	—	—	EH+
VH	—	0.5	—	0.5	—	0.5	VH
HI	—	1.0	—	0.5	—	0.5	HI
MH	—	1.0	—	1.0	—	0.5	MH
ML	—	1.5	—	1.0	—	1.0	ML
LO	—	1.5	—	1.5	—	1.0	LO

Radar:	APG-30	**ECM:**	IFF
ECCM:	—	RWR:	—
Arcs:	—	DDS:	—
Search:	—	DJM:	—
Track:	—	AJM:	—
Lock-On:	7	BJM:	—

Weapon Stations Diagram:

Guns:	Six .50 cal M3
To Hit:	6/3/0
Ammunition:	7.0
Gunsight:	TT+0/HT+1/BT+2
Ranging:	RE
AtA/AtG:	4/4**
Bomb System:	Manual

Technology:

None

Load Point Limits: CL : 0–2; 1/2: 3–6; DT : 7+

Weight Limit: 5,000

Station	Limit	Allowed Loads
1 and 4	1,400	FT RK
2	1,000	FT RK BB IRM
3	1,200	FT RK BB IRM

Load Notes:

1. Stations must be loaded symmetrically, with the exception that a Mk 12 nuclear bomb may be carried on station 3 with a 120 gal (450L) FT on station 2.
2. May use 200 gal (760L) FTs on stations 1 and 4 and 120 gal (450L) FTs on stations 2 and 3.
3. May use four HVAR RKs on each station. If RKs are carried on stations 1 and 4, they must also be carried on stations 2 and 3.
4. May use an Mk 12 nuclear bomb (weight 1200 and load 3.0) on station 3.
5. From 1958, may use AIM-9B IRMs.

Notes:

1. The North American F-86F-35 Sabre is a single-engined, swept-wing, fighter-bomber, and tactical nuclear bomber. The F-86F-35 is similar to the F-86F-25 but the inner left weapon station is reinforced to allow carriage of a Mk 12 nuclear bomb and the aircraft is equipped with the LABS system to allow toss bombing. This variant is the original, with the early slatted wing.
2. High transonic drag (HTD).

VPs: 10/7/3/2

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F-86F-35 Sabre (6-3 Wing)

Crew: Pilot

Power APs/DPs/FPs: ○

	CL	1/2	DT	Fuel
AB	—	—	—	—
M	1.0	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	—

Maneuver HFPs/DPs:

LR/DR	1.0	1.0
VR		0.0

Turn DPs:

	CL	1/2	DT
TT	0.0	1.0	1.0
HT	1.0	1.0	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

Alt. Band	Conf. Ceil.	CL 48	1/2 45	DT 42	Dive Speed
EH+	46+	2.5 – 5.5	—	—	6.5
VH	36–45	2.5 – 6.0	2.5 – 5.0	3.0 – 5.0	6.5
HI	26–35	2.0 – 6.0	2.5 – 5.5	2.5 – 5.0	7.0
MH	17–25	2.0 – 6.5	2.5 – 5.5	2.5 – 5.0	7.0
ML	8–16	2.0 – 6.5	2.0 – 6.0	2.5 – 5.5	7.5
LO	0–7	1.5 – 6.5	1.5 – 6.0	2.0 – 5.5	7.5

Climb Capabilities

Alt. Band	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth	Alt. Band
EH+	—	0.5	—	—	—	—	EH+
VH	—	0.5	—	0.5	—	0.5	VH
HI	—	1.0	—	0.5	—	0.5	HI
MH	—	1.0	—	1.0	—	0.5	MH
ML	—	1.5	—	1.0	—	1.0	ML
LO	—	1.5	—	1.5	—	1.0	LO

Radar:	APG-30	**ECM:**	IFF
ECCM:	—	RWR:	—
Arcs:	—	DDS:	—
Search:	—	DJM:	—
Track:	—	AJM:	—
Lock-On:	7	BJM:	—

Weapon Stations Diagram:

Guns:	Six .50 cal M3
To Hit:	6/3/0
Ammunition:	7.0
Gunsight:	TT+0/HT+1/BT+2
Ranging:	RE
AtA/AtG:	4/4**
Bomb System:	Manual

Technology:

None

Load Point Limits: CL : 0–2; 1/2: 3–6; DT : 7+

Weight Limit: 5,000

Station	Limit	Allowed Loads
1 and 4	1,400	FT RK
2	1,000	FT RK BB IRM
3	1,200	FT RK BB IRM

Load Notes:

1. Stations must be loaded symmetrically, with the exception that a Mk 12 nuclear bomb may be carried on station 3 with a 120 gal (450L) FT on station 2.
2. May use 200 gal (760L) FTs on stations 1 and 4 and 120 gal (450L) FTs on stations 2 and 3.
3. May use four HVAR RKs on each station. If RKs are carried on stations 1 and 4, they must also be carried on stations 2 and 3.
4. May use an Mk 12 nuclear bomb (weight 1200 and load 3.0) on station 3.
5. From 1958, may use AIM-9B IRMs.

Notes:

1. The North American F-86F-35 Sabre is a single-engined, swept-wing, fighter-bomber, and tactical nuclear bomber. The F-86F-35 is similar to the F-86F-25 but the inner left weapon station is reinforced to allow carriage of a Mk 12 nuclear bomb and the aircraft is equipped with the LABS system to allow toss bombing. This variant is fitted with the unslatted 6-3 wing, which gives better maneuverability at altitude but raises the landing and stall speed.

VPs: 10/7/3/2

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F-86F-40 Sabre

Crew: Pilot

Power APs/DPs/FPs: ○

	CL	1/2	DT	Fuel
AB	—	—	—	—
M	1.0	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	—

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

Maneuver HFPs/DPs:

LR/DR	1.0	1.0
VR		0.0

Turn DPs:

	CL	1/2	DT
TT	0.0/0.0	0.0/0.0	1.0/1.0
HT	1.0/1.0	1.0/1.0	1.0/1.0
BT	1.0/2.0	1.0/2.0	2.0/3.0
ET	—	—	—

Automatic leading-edge slats. If speed ≤ 3.5, use higher drag.

Speeds and Ceilings

Alt. Band	Conf. Ceil.	CL 50	1/2 48	DT 44	Dive Speed
EH+	46+	2.5 – 5.5	3.0 – 5.0	—	6.5
VH	36–45	2.5 – 6.0	2.5 – 5.0	2.5 – 5.0	6.5
HI	26–35	2.0 – 6.0	2.0 – 5.5	2.5 – 5.0	7.0
MH	17–25	2.0 – 6.5	2.0 – 5.5	2.0 – 5.0	7.0
ML	8–16	1.5 – 6.5	2.0 – 6.0	2.0 – 5.5	7.5
LO	0–7	1.5 – 6.5	1.5 – 6.0	1.5 – 5.5	7.5

Climb Capabilities

Alt. Band	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth	Alt. Band
EH+	—	0.5	—	0.5	—	—	EH+
VH	—	1.0	—	0.5	—	0.5	VH
HI	—	1.0	—	1.0	—	0.5	HI
MH	—	1.5	—	1.0	—	1.0	MH
ML	—	1.5	—	1.0	—	1.0	ML
LO	—	1.5	—	1.5	—	1.0	LO

Radar:	APG-30	**ECM:**	IFF
ECCM:	—	RWR:	—
Arcs:	—	DDS:	—
Search:	—	DJM:	—
Track:	—	AJM:	—
Lock-On:	7	BJM:	—

Guns:	Six .50 cal M3
To Hit:	6/3/0
Ammunition:	7.0
Gunsight:	TT+0/HT+1/BT+2
Ranging:	RE
AtA/AtG:	4/4**

Bomb System: Manual

Technology:

None

Weapon Stations Diagram:

Load Point Limits: CL : 0–2; 1/2: 3–6; DT : 7+

Weight Limit: 4,800

Station	Limit	Allowed Loads
1 and 4	1,400	FT RK
2 and 3	1,000	FT RK BB IRM

Load Notes:

1. Stations must be loaded symmetrically.
2. May use 200 gal (760L) FTs on stations 1 and 4 and 120 gal (450L) FTs on stations 2 and 3.
3. May use four HVAR RKs on each station. If RKs are carried on stations 1 and 4, they must also be carried on stations 2 and 3.
4. From 1958, may use AIM-9B IRMs.

Notes:

1. The North American F-86F-40 Sabre is a single-engined, swept-wing, fighter-bomber. The F-86F-40 is derived from and is similar to the F-86F-25, but has the slatted, extended 6-3 wing, which gives better maneuverability at altitude and lowers the landing and stall speed.

VPs: 10/7/3/2

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F-86H Sabre

Crew: Pilot

Power APs/DPs/FPs: ○

	CL	1/2	DT	Fuel
AB	—	—	—	—
M	1.5	1.5	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	—

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	1.0	1.0	1.0
BT	2.0	2.0	2.0
ET	—	—	—

Cruise Speed:	5.5	Restr. Arcs:	—
Climb Speed:	3.5	Blind Arcs:	30–
Visibility:	5	Internal Fuel:	180
Size:	+0	AtA Refuel:	No
Vulnerability:	+0	Ejection Seat:	Std

Speeds and Ceilings

Alt. Band	Conf. Ceil.	CL 51	1/2 46	DT 42	Dive Speed
EH+	46+	2.5 – 5.5	3.0 – 5.0	—	6.5
VH	36–45	2.5 – 5.5	2.5 – 5.0	3.0 – 5.0	6.5
HI	26–35	2.0 – 6.0	2.5 – 5.5	2.5 – 5.0	7.0
MH	17–25	2.0 – 6.5	2.5 – 5.5	2.5 – 5.5	7.0
ML	8–16	2.0 – 6.5	2.0 – 6.0	2.5 – 5.5	7.5
LO	0–7	1.5 – 7.0	2.0 – 6.5	2.5 – 6.0	7.5

Climb Capabilities

Alt. Band	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth	Alt. Band
EH+	—	0.5	—	0.5	—	—	EH+
VH	—	1.0	—	1.0	—	0.5	VH
HI	—	1.5	—	1.0	—	0.5	HI
MH	—	1.5	—	1.5	—	1.0	MH
ML	—	2.0	—	1.5	—	1.0	ML
LO	—	2.5	—	2.0	—	1.5	LO

Radar:	APG-30	**ECM:**	IFF
ECCM:	—	RWR:	—
Arcs:	—	DDS:	—
Search:	—	DJM:	—
Track:	—	AJM:	—
Lock-On:	7	BJM:	—

Weapon Stations Diagram:

Guns:	Four 20 mm M39
To Hit:	6/4/3
Ammunition:	3.5
Gunsight:	TT+0/HT+1/BT+2
Ranging:	RE
AtA/AtG:	5/7*

Technology:

None

Bomb System: Manual

Load Point Limits: CL : 0–2; 1/2: 3–6; DT : 7+

Weight Limit: 5,000

Station	Limit	Allowed Loads
1 and 4	1,400	FT
2	1,000	FT RK BB IRM
3	1,200	FT RK BB IRM

Load Notes:

1. Stations must be loaded symmetrically, with the exception that a Mk 12 nuclear bomb may be carried on station 3 with a 120 gal (450L) FT on station 2.
2. May use 200 gal (760L) FTs on stations 1 and 4 and 120 gal (450L) FTs on stations 2 and 3.
3. May use four HVAR RKs on stations 2 and 3.
4. May use an Mk 12 nuclear bomb (weight 1200 and load 3.0) on station 3.
5. From 1958, may use AIM-9B IRMs.

Notes:

1. The North American F-86H Sabre is a single-engined, swept-wing, fighter-bomber. The F-86H is derived from the F-86F-35, but has a more powerful engine and four 20 mm M39 guns in place of the original six .50 cal guns. This variant is the original with the unslatted 6-3 wing.

VPs: 12/8/4/2

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F-86H Sabre (Extended 6-3 Wing)

Crew: Pilot

Power APs/DPs/FPs: ○

	CL	1/2	DT	Fuel
AB	—	—	—	—
M	1.5	1.5	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	—

Cruise Speed:	5.5	Restr. Arcs:	—
Climb Speed:	3.5	Blind Arcs:	30–
Visibility:	5	Internal Fuel:	180
Size:	+0	AtA Refuel:	No
Vulnerability:	+0	Ejection Seat:	Std

Maneuver HFPs/DPs:

LR/DR	1.0	1.0
VR		0.0

Turn DPs:

	CL	1/2	DT
TT	1.0/1.0	1.0/1.0	1.0/1.0
HT	1.0/1.0	1.0/1.0	1.0/2.0
BT	2.0/3.0	2.0/3.0	2.0/3.0
ET	—	—	—

Automatic leading-edge slats. If speed ≤ 3.5, use higher drag.

Speeds and Ceilings

Alt. Band	Conf. Ceil.	CL 51	1/2 46	DT 42	Dive Speed
EH+	46+	2.5 – 5.5	3.0 – 5.0	—	6.5
VH	36–45	2.5 – 5.5	2.5 – 5.0	3.0 – 5.0	6.5
HI	26–35	2.0 – 6.0	2.5 – 5.5	2.5 – 5.0	7.0
MH	17–25	2.0 – 6.5	2.5 – 5.5	2.5 – 5.5	7.0
ML	8–16	2.0 – 6.5	2.0 – 6.0	2.5 – 5.5	7.5
LO	0–7	1.5 – 7.0	1.5 – 6.5	2.0 – 6.0	7.5

Climb Capabilities

Alt. Band	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth	Alt. Band
EH+	—	0.5	—	0.5	—	—	EH+
VH	—	1.0	—	1.0	—	0.5	VH
HI	—	1.5	—	1.0	—	0.5	HI
MH	—	1.5	—	1.5	—	1.0	MH
ML	—	2.0	—	1.5	—	1.0	ML
LO	—	2.5	—	2.0	—	1.5	LO

Radar:	APG-30	**ECM:**	IFF
ECCM:	—	RWR:	—
Arcs:	—	DDS:	—
Search:	—	DJM:	—
Track:	—	AJM:	—
Lock-On:	7	BJM:	—

Weapon Stations Diagram:

Guns:	Four 20 mm M39
To Hit:	6/4/3
Ammunition:	3.5
Gunsight:	TT+0/HT+1/BT+2
Ranging:	RE
AtA/AtG:	5/7*
Bomb System:	Manual

Technology:

None

Load Point Limits: CL : 0–2; 1/2: 3–6; DT : 7+

Weight Limit: 5,000

Station	Limit	Allowed Loads
1 and 4	1,400	FT
2	1,000	FT RK BB IRM
3	1,200	FT RK BB IRM

Load Notes:

1. Stations must be loaded symmetrically, with the exception that a Mk 12 nuclear bomb may be carried on station 3 with a 120 gal (450L) FT on station 2.
2. May use 200 gal (760L) FTs on stations 1 and 4 and 120 gal (450L) FTs on stations 2 and 3.
3. May use four HVAR RKs on stations 2 and 3.
4. May use an Mk 12 nuclear bomb (weight 1200 and load 3.0) on station 3.
5. From 1958, may use AIM-9B IRMs.

Notes:

1. The North American F-86H Sabre is a single-engined, swept-wing, fighter-bomber. The F-86H is derived from the F-86F-35, but has a more powerful engine and four 20 mm M39 guns in place of the original six .50 cal guns. This variant is refitted with the slatted, extended 6-3 wing.

VPs: 12/8/4/2

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F-86K Sabre-Dog

Crew: Pilot

Power APs/DPs/FPs: ○

	CL	1/2	DT	Fuel
AB	1.5	1.0	1.0	3.0
M	1.0	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	—

Smoker in military power (SMP).

Cruise Speed:	5.5	Restr. Arcs:	—
Climb Speed:	3.5	Blind Arcs:	30–
Visibility:	5	Internal Fuel:	205
Size:	+0	AtA Refuel:	No
Vulnerability:	+0	Ejection Seat:	Std

Maneuver HFPs/DPs:

LR/DR	1.0	1.0
VR		0.0

Turn DPs:

	CL	1/2	DT
TT	1.0/1.0	1.0/1.0	1.0/1.0
HT	1.0/1.0	1.0/2.0	1.0/2.0
BT	2.0/3.0	2.0/3.0	2.0/3.0
ET	—	—	—

Automatic leading-edge slats. If speed ≤ 3.5, use higher drag.

Speeds and Ceilings

Alt. Band	Conf. Ceil.	CL 50	1/2 47	DT 44	Dive Speed
EH+	46+	3.0 – 6.0	3.0 – 5.5	—	6.5
VH	36–45	3.0 – 6.0	3.0 – 5.5	3.0 – 5.0	6.5
HI	26–35	2.5 – 6.0	2.5 – 6.0	3.0 – 5.5	7.0
MH	17–25	2.0 – 6.5	2.5 – 6.0	2.5 – 6.0	7.0
ML	8–16	1.5 – 6.5	2.0 – 6.5	2.5 – 6.0	7.5
LO	0–7	1.5 – 7.0	2.0 – 6.5	2.0 – 6.0	7.5

Climb Capabilities

Alt. Band	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth
EH+	1.0	0.5	1.0	0.5	—	—
VH	1.0	0.5	1.0	0.5	1.0	0.5
HI	1.5	0.5	1.0	0.5	1.0	0.5
MH	1.5	1.0	1.0	0.5	1.0	0.5
ML	2.0	1.0	1.5	1.0	1.5	1.0
LO	2.0	1.0	1.5	1.0	1.5	1.0

Radar:	APG-36	**ECM:**	IFF
ECCM:	0	RWR:	—
Arcs:	180+	DDS:	—
Search:	70–10	DJM:	—
Track:	40–8	AJM:	—
Lock-On:	7	BJM:	—

Weapon Stations Diagram:

Guns:	Four 20 mm M24
To Hit:	6/4/3
Ammunition:	3.0
Gunsight:	TT+0/HT+1/BT+2
Ranging:	RE
AtA/AtG:	5/7*
Bomb System:	Manual

Technology:

None

Load Point Limits: CL : 0–2; 1/2: 3–6; DT : 7+

Weight Limit: 2,400

Station	Limit	Allowed Loads
1 and 4	1,000	FT
2 and 3	200	IRM

Load Notes:

1. Stations must be loaded symmetrically.
2. May use 120 gal (450L) FTs.
3. From 1958, may use AIM-9B IRMs.

Notes:

1. The North American F-86K Sabre-Dog is a single-engined, swept-wing, all-weather interceptor. The F-86K version is a derivative of the F-86D and has four 20 mm Mk24 cannons in place of the rocket armament of the earlier version and the simpler MG-4 fire-control system. This variant is the original with the early slatted wing.
2. High transonic drag (HTD).

VPs: 11/7/4/2

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F-86K Sabre-Dog (Extended 6-3 Wing)

Crew: Pilot

Power APs/DPs/FPs: ○

	CL	1/2	DT	Fuel
AB	1.5	1.0	1.0	3.0
M	1.0	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	—

Smoker in military power (SMP).

Cruise Speed:	5.5	Restr. Arcs:	—
Climb Speed:	3.5	Blind Arcs:	30–
Visibility:	5	Internal Fuel:	205
Size:	+0	AtA Refuel:	No
Vulnerability:	+0	Ejection Seat:	Std

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	1.0	1.0	1.0
BT	2.0	2.0	2.0
ET	—	—	—

Speeds and Ceilings

Alt. Band	Conf. Ceil.	CL 50	1/2 47	DT 44	Dive Speed
EH+	46+	2.5 – 6.0	2.5 – 5.5	—	6.5
VH	36–45	2.5 – 6.0	2.5 – 5.5	2.5 – 5.0	6.5
HI	26–35	2.0 – 6.0	2.5 – 6.0	2.5 – 5.5	7.0
MH	17–25	2.0 – 6.5	2.5 – 6.0	2.5 – 6.0	7.0
ML	8–16	1.5 – 6.5	2.0 – 6.5	2.5 – 6.0	7.5
LO	0–7	1.5 – 7.0	2.0 – 6.5	2.0 – 6.0	7.5

Climb Capabilities

Alt. Band	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth
EH+	1.0	0.5	1.0	0.5	—	—
VH	1.0	0.5	1.0	0.5	1.0	0.5
HI	1.5	0.5	1.0	0.5	1.0	0.5
MH	1.5	1.0	1.0	0.5	1.0	0.5
ML	2.0	1.0	1.5	1.0	1.5	1.0
LO	2.0	1.0	1.5	1.0	1.5	1.0

Radar:	APG-36	**ECM:**	IFF
ECCM:	0	RWR:	—
Arcs:	180+	DDS:	—
Search:	70–10	DJM:	—
Track:	40–8	AJM:	—
Lock-On:	7	BJM:	—

Weapon Stations Diagram:

Guns:	Four 20 mm M24
To Hit:	6/4/3
Ammunition:	3.0
Gunsight:	TT+0/HT+1/BT+2
Ranging:	RE
AtA/AtG:	5/7*
Bomb System:	Manual

Technology:

None

Load Point Limits: CL : 0–2; 1/2: 3–6; DT : 7+

Weight Limit: 2,400

Station	Limit	Allowed Loads
1 and 4	1,000	FT
2 and 3	200	IRM

Load Notes:

1. Stations must be loaded symmetrically.
2. May use 120 gal (450L) FTs.
3. From 1958, may use AIM-9B IRMs.

Notes:

1. The North American F-86K Sabre-Dog is a single-engined, swept-wing, all-weather interceptor. The F-86K version is a derivative of the F-86D and has four 20 mm Mk24 cannons in place of the rocket armament of the earlier version and the simpler MG-4 fire-control system. This variant has the slatted, extended 6-3 wing.

VPs: 12/8/4/2

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F-86L Sabre-Dog

Crew: Pilot

Power APs/DPs/FPs: ○

	CL	1/2	DT	Fuel
AB	1.5	1.0	1.0	3.0
M	1.0	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	—

Smoker in military power (SMP).

Cruise Speed:	5.5	Restr. Arcs:	—
Climb Speed:	3.5	Blind Arcs:	30–
Visibility:	5	Internal Fuel:	205
Size:	+0	AtA Refuel:	No
Vulnerability:	+0	Ejection Seat:	Early

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	1.0	1.0	1.0
BT	2.0	2.0	2.0
ET	—	—	—

Speeds and Ceilings

Alt. Band	Conf. Ceil.	CL 50	1/2 47	DT 44	Dive Speed
EH+	46+	2.5 – 6.0	2.5 – 5.5	—	6.5
VH	36–45	2.5 – 6.0	2.5 – 5.5	2.5 – 5.0	6.5
HI	26–35	2.0 – 6.0	2.5 – 6.0	2.5 – 5.5	7.0
MH	17–25	2.0 – 6.5	2.5 – 6.0	2.5 – 6.0	7.0
ML	8–16	1.5 – 6.5	2.0 – 6.5	2.5 – 6.0	7.5
LO	0–7	1.5 – 7.0	2.0 – 6.5	2.0 – 6.0	7.5

Climb Capabilities

Alt. Band	CL AB	CL Oth	1/2 AB	1/2 Oth	DT AB	DT Oth
EH+	1.0	0.5	1.0	0.5	—	—
VH	1.0	0.5	1.0	0.5	1.0	0.5
HI	1.5	0.5	1.0	0.5	1.0	0.5
MH	1.5	1.0	1.0	0.5	1.0	0.5
ML	2.0	1.0	1.5	1.0	1.5	1.0
LO	2.0	1.0	1.5	1.0	1.5	1.0

Radar:	APG-36
ECCM:	0
Arcs:	180+
Search:	70–10
Track:	40–8
Lock-On:	7

ECM:	IFF
RWR:	—
DDS:	—
DJM:	—
AJM:	—
BJM:	—

Weapon Stations Diagram:

Guns:	—
To Hit:	—
Ammunition:	—
Gunsight:	TT+0/HT+1/BT+2
Ranging:	RE
AtA/AtG:	—

Bomb System: Manual

Technology:

CC Rocket Attack

Load Point Limits: CL : 0–2; 1/2: 3–6; DT : 7+

Weight Limit: 2,400

Station	Limit	Allowed Loads
1 and 5	1,000	FT
2 and 4	200	IRM
3	0	

Load Notes:

1. Stations must be loaded symmetrically.
2. May use 120 gal (450L) FTs.
3. From 1958, may use AIM-9B IRMs.
4. Station 3 is an internal rocket tray with 2 factors of air-to-air rockets.

Notes:

1. The North American F-86L Sabre-Dog is a single-engined, swept-wing, all-weather interceptor. It is armed with 24 FFARs in a ventral tray. The APG-36 radar and Hughes E-4 fire-control system allow collision-course rocket attacks. The F-86L is a derivative of the F-86D and has the slatted, extended 6-3 wing and a SAGE data-link.

VPs: 13/9/4/2

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