

## AVRO ARROW: & Its Contemporaries

In the following table, all contemporary aircraft are compared. This is the second generation of this table, expect changes as I double check, and add additional aircraft, with some exceptions noted. And again please note that at maximum speed, with internal or external fuel, maximum range is NOT possible for any machine. Any machine that uses reheat, or flies at low altitude, can expect drastically reduced range. And another reminder, that I am deliberately using conservative figures for the ARROW.

Also bear in mind that with increased external fuel, the armament carried was more often then not, reduced.... For the maximum speed for the following aircraft, assume NO external stores: No fuel. No missiles. Only (in some models) on board cannon (indicated by [c]) or internally carried missiles. For the extended columns, assume 2-4 external air to air missiles, or limited air to ground stores, which might actually result in even lower Vmax (when I can document it, I will add details). In all cases, the ARROW is carrying four or more missiles. For all aircraft, for combat radius flight takes place at optimum altitude, and at a 500-600 mph cruise with short super-sonic combat or dash (reduce the altitude to 10,000 ft, and you could expect the range to be cut by half, with drastic reductions in Vmax). For maximum range, no super-sonic flight, with little or no use of afterburner. All distances in statute miles.

Aircraft	Internal Fuel.	Vmax I.F. / Missile Load	Combat Radius I.F.	Ext fuel/weapons Vmax	Radius Additional Fuel	Ext Fuel/weapons Vmax	Range Max Fuel
Arrow 2 Preflight estimates	21,613 lbs	2.4 / 4-8	597	1 X 3,900 lbs	710	not applied	1,520+
Arrow 2 *revised by Mk 1 data	21,613 lbs	2.4 / 4-8	775	1 X 3,900 lbs	890	not applied	2,000 +
Arrow 2a	28,773 lbs	2.4 / 4-8	1285	not applied	1285	not applied	2,310+
F-4E Phantom	12,900 lbs	2.34 / nil [c]	400	2 wing tanks / 1.75	600	2-wing 1-belly/ 1.45	1,885
F-101B	13,345 lbs	1.73 / 3 Int	600+	2 x 2,795 lbs / 1.3	720	not "B"	1930
F-104 (A)	5,830 lbs	2.0 / nil [c]	xxx+	2 tiptanks/ 1.8	xxx+	2 tip 2 wing/ 1.5	xxx
F-104 (G)	5,830 lbs	2.35 / nil [c]	300+	2 tiptanks/ 1.8	450+	2 tip 2 wing/ 1.5	1,630
F-106	9,360 lbs	2.31 / 4-6 [c-1972]	365	2 x 360 US [supersonic tanks-1967]	575	N/A/O	1,809

Aircraft	Internal Fuel.	Vmax I.F. / Missile Load	Combat Radius I.F.	Ext Fuel/weapons Vmax	Radius Additional Fuel	Ext Fuel/weapons Vmax	Range Max Fuel
Draken A	3090 lbs	xx / nil [c]	xx	2X Ext tanks/ 1.4	xxx	4 Ext tanks/ 0.9/1.1	xxx
Draken E	4,420 lbs	2.0 / nil [c]	375	2X Ext tanks/ 1.4	525	4 Ext tanks/ 0.9/1.1	2,020
Lightning F.1a	xxxx	2.35 / nil [c]	xxx	nil	xxx	same	xxx
Lightning F.6	10,600 lbs	2.35 / nil [c]	1.1 hrs	2 Overwing/ 0.9	1.5 hrs	same	900
Mirage III C	5,720 lbs	2.2 / nil [c]	200	1X Ext/ 1.5	400	3X Ext/ .9/1.1?	2485
Mirage III E	5,720 lbs	2.2 / nil [c]	200	1X Ext/ 1.5	400	3X Ext/ .9/1.1?	2485
Mirage5/50	xxx	xx	xx	xx	xx	xx	xxx
Mig 21E-5	4,212 lbs	xxx	xx	xx	xx	xx	xx
Mig 21 (Mbis)	4,990 lbs	2.1 / nil [c]	150	1X 108 / 1.5	390	3X Ext/ 0.9/1.2?	1,118
Su 15 Flagon	11,023 lb	2.5 / nil	450	2 ext / 2.3	N/A/O	N/A/O	1,398
Aircraft	I.F	Vmax	rad i.f.	--	--	--	--

\*revised-these figures are based on revised drag data, as the result of actual flight data of the ARROW Mk 1. It was a lower drag airframe than originally thought.

*All pages copyright to Barry Fortier/Gemini Diversions.*

Page created by: [geminimp@netcom.ca](mailto:geminimp@netcom.ca)

- Return to the [home page](#)..
- Return to the [ARROW page](#)..

## GEMINI DIVERSIONS

Calgary Alberta  
403 255-2651 Phone/Fax