



F-35 Lightning II Program Status and Fast Facts

February 1, 2016

Highlights of the Last Three Months

- U.K. MOD, U.S. Marine Corps and U.S. Air Force announce jets participating at 2016 Royal International Air Tattoo and 2016 Farnborough Air Show. **(Jan. 25)**
- The first F-35A full wing-set produced by Italy's Finmeccanica-Aeronautics at the Cameri, Italy, Final Assembly and Check-Out (FACO) facility, made its first flight on AF-88 in Fort Worth, Texas. **(Jan. 15)**
- AS-1, Israel's first F-35A, begins the mate process at Fort Worth production facility. **(Jan. 10)**
- F-35A flyover at Lockheed Martin Armed Force Bowl in Fort Worth, Texas, makes history as first F-35 flyover at collegiate bowl game. The four jets were from the 61st Fighter Wing, Luke Air Force Base, Arizona. **(Dec. 28)**
- The Department of Defense accepts its 45th F-35 Lightning II aircraft delivery for 2015, meeting the program production goal for the year. **(Dec. 21)**
- AX-5, Japan's first Japanese-assembled F-35A, begins the mate process at the Nagoya, Japan Final Assembly and Check-Out facility. **(Dec. 15)**
- Luke Air Force Base, Arizona announces F-35 Heritage Flight Program. **(Dec. 11)**
- Italy becomes the sixth nation to receive an F-35 with the delivery of AL-1 from the Cameri, Italy, FACO. Italy's first jet is the first F-35A to be delivered outside the United States. **(Dec. 3)**
- U.K. National Security Strategy and Strategic Defence and Security Review reaffirmed the U.K. program of record of 138 F-35Bs. **(Nov. 23)**
- Norway's first two F-35As arrive at Luke Air Force Base, Arizona. **(Nov. 10)**
- Italy's first F-35 pilots complete initial training flights at Luke Air Force Base, Arizona. **(Nov. 5)**
- F-35A completes first aerial gun test at Edwards Air Force Base, California. **(Nov. 2)**
- F-35s have flown more than **48,000** cumulative flight hours since Dec. 2006.

F-35 LRIP Deliveries

- 9 jets delivered in 2011
- 29 jets delivered in 2012
- 35 jets delivered in 2013
- 36 jets delivered in 2014
- 45 jets delivered in 2015
- 53 jets scheduled for delivery in 2016

Program of Record

USAF	1,763 F-35As
DoN (USN/USMC)	680 F-35B/Cs
U.K. RAF/RN	138 F-35Bs
Italy	60 F-35As/30 F-35Bs
Netherlands	37 F-35As
Turkey	100 F-35As
Australia	100 F-35As
Norway	52 F-35As
Denmark	30 F-35As
Canada	65 F-35As
Israel	33 F-35As
Japan	42 F-35As
S. Korea	40 F-35As

Current as of Feb. 1, 2016

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Funding

- Long-lead funding LRIP lot 10 (94 aircraft)
- Long-lead funding LRIP lot 9 (57 aircraft)
- Full funding approved for LRIP lot 8 (43 aircraft)
- Full funding approved for LRIP lots 7 (35 aircraft)
- Full funding approved for LRIP lots 6 (36 aircraft)
- Full funding approved for LRIP lot 5 (32 aircraft)
- Full funding approved for LRIP lot 4 (32 aircraft)
- Full funding approved for LRIP lot 3 (17 aircraft)
- Full funding approved for LRIP lot 2 (12 aircraft)
- Full funding approved for LRIP lot 1 (2 aircraft)

Cost

- The U.S. DOD announced an agreement known as Blueprint for Affordability in July 2014, aimed at reducing the price of an F-35 to the equivalent of today's 4th generation fighters by the end of the decade.
- The U.S. government stated the projected cost of an F-35 purchased in 2018 will be \$85 million. That's the equivalent of \$75 million in FY 2012 dollars.
- In 2014, the U.S. DOD announced a more than \$500 million reduction in concurrency costs over the first five production lot contracts.
- The LRIP 8 contract reflects an average airframe unit cost approximately 3.5 percent lower than the LRIP 7 contract signed in 2013 and a 57 percent reduction since LRIP 1.
- LRIP 6 Aircraft Costs (not including engine):
 - 23 F-35As CTOL - \$103 million/jet
 - 6 F-35B STOVL - \$109 million/jet
 - 7 F-35C CV - \$120 million/jet
- LRIP 7 Aircraft Costs (not including engine):
 - 24 F-35As CTOL - \$98 million/jet
 - 7 F-35B STOVL - \$104 million/jet
 - 4 F-35C CV - \$116 million/jet
- LRIP 8 Aircraft Costs (not including engine):
 - 19 F-35As CTOL - \$94.8 million/jet
 - 6 F-35B STOVL - \$102.0 million/jet
 - 4 F-35C CV - \$115.7 million/jet

F-35 Quantities by Variant and Country for LRIP 1 – 8

LRIP 1 (2 Total) - 2 U.S. / 0 International

United States

- 2 F-35A CTOL for the U.S. Air Force

LRIP 2 (12 Total) - 12 U.S. / 0 International

United States

- 6 F-35A CTOL for the U.S. Air Force
- 6 F-35B STOVL for the U.S. Marine Corps

LRIP 3 (17 Total) - 14 U.S. / 3 International

United States

- 7 F-35A CTOL for the U.S. Air Force
- 7 F-35B STOVL for the U.S. Marine Corps

International

- 1 F-35A CTOL for the Netherlands
- 2 F-35B STOVL for U.K.

LRIP 4 (32 Total) - 30 U.S. / 2 International

United States

- 10 F-35A CTOL for the U.S. Air Force
- 16 F-35B STOVL for the U.S. Marine Corps

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- 4 F-35C CV for the U.S. Navy
- International
- 1 F-35A CTOL for the Netherlands
 - 1 F-35B STOVL for the U.K.

LRIP 5 (32 Total) - 32 U.S. / 0 International

- United States
- 22 F-35A CTOL for the U.S. Air Force
 - 3 F-35B STOVL for the U.S. Marine Corps
 - 7 F-35C CV for the U.S. Navy

LRIP 6 (36 Total) - 31 U.S. / 5 International

- United States
- 18 F-35A CTOL for the U.S. Air Force
 - 6 F-35B STOVL for the U.S. Marine Corps
 - 7 F-35C CV for the U.S. Navy
- International
- 3 F-35A CTOL for Italy
 - 2 F-35A CTOL for Australia

LRIP 7 (35 Total) - 29 U.S. / 6 International

- United States
- 19 F-35A CTOL for the U.S. Air Force
 - 6 F-35B STOVL for the U.S. Marine Corps
 - 4 F-35C CV for the U.S. Navy
- International
- 3 F-35A CTOL for Italy
 - 2 F-35A CTOL for Norway
 - 1 F-35B STOVL for the U.K.

LRIP 8 (43 Total) - 29 U.S. / 14 International (4 U.K., 2 Norway, 2 Italy, 4 Japan, 2 Israel)

- United States
- 19 F-35A CTOL for the U.S. Air Force
 - 6 F-35B for the U.S. Marine Corps
 - 4 F-35C for the U.S. Navy
- International
- 4 F-35B STOV for U.K.
 - 2 F-35A CTOL for Norway
 - 2 F-35A CTOL for Italy
 - 4 F-35A CTOL for Japan
 - 2 F-35A CTOL for Israel

F-35 Specifications

	F-35A CTOL	F-35B STOVL	F-35C CV
Length	51.4 ft / 15.7 m	51.2 ft / 15.6 m	51.5 ft / 15.7 m
Height	14.4 ft / 4.38 m	14.3 ft / 4.36 m	14.7 ft / 4.48 m
Wingspan	35 ft / 10.7 m	35 ft / 10.7 m	43 ft / 13.1 m
Wing area	460 ft ² / 42.7 m ²	460 ft ² / 42.7 m ²	668 ft ² / 62.1 m ²
Horizontal tail span	22.5 ft / 6.86 m	21.8 ft / 6.65 m	26.3 ft / 8.02 m
Weight empty	29,300 lb	32,300 lb	34,800 lb
Internal fuel capacity	18,250 lb / 8278 kg	13,500 lb / 6,125 kg	19,750 lb / 8,960kg
Weapons payload	18,000 lb / 8,160 kg	15,000 lb / 6,800kg	18,000 lb / 8,160 kg
Standard internal weapons load	<ul style="list-style-type: none"> • 25 mm GAU-22/A cannon • Two AIM-120C air-to-air missiles • Two 2,000-pound GBU-31 	<ul style="list-style-type: none"> • Two AIM-120C air-to-air missiles • Two 1,000-pound GBU-32 JDAM guided bombs 	<ul style="list-style-type: none"> • Two AIM-120C air-to-air missiles • Two 2,000-pound GBU-31 JDAM guided bombs

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	JDAM guided bombs		
Maximum weight	70,000 lb class	60,000 lb class	70,000 lb class
Propulsion* (uninstalled thrust ratings)	F135-PW-100 40,000 lbs Max. 25,000 lbs Mil. Vertical N/A	F135-PW-600 40,000 lbs Max. 25,000 lbs Mil. 40,500 lbs Vertical	F135-PW-100 40,000 lbs Max. 25,000 lbs Mil. Vertical N/A
Speed (full internal weapons load)	Mach 1.6 (~1,200 mph)	Mach 1.6 (~1,200 mph)	Mach 1.6 (~1,200 mph)
Combat radius (internal fuel)	>590 nm / 1,093 km	>450 nm / 833 km	>600 n.mi / 1,100 km
Range (internal fuel)	>1,200 nm / 2,200 km	>900 nm / 1,667 km	>1,200 n.mi / 2,200 km
Max g-rating	9.0	7.0	7.5

*Maximum Power (Max) = with afterburner; Military Power (Mil) = without afterburner; Vertical = without afterburner

Program Highlights

- **2011** – The USAF accepted first production-model F-35. F-35 successfully completed static structural testing. BF-2 successfully executed a vertical landing on the deck of the USS WASP. AF-1 achieved the maximum design limit Mach number for F-35, Mach 1.6. Japan announced that the F-35 has been selected as the country's next generation fighter.
- **2012** – The first F-35 night flight completed at Edwards AFB. An F-35A flew first external weapons test mission. The F-35B STOVL completed in-flight refueling while configured with external weapons. Norway ordered its first F-35. The first international F-35 delivered to the U.K. Luke AFB selected for F-35A pilot training. F-35 completed more than 5,000 flight hours. AETC declared Eglin AFB ready for training.
- **2013** – First F-35C production model delivered. The first four F-35s arrived at Nellis AFB for operational testing. USMC conducted first operational F-35B vertical landing. U.K. announced RAF Marham in Norfolk as home for F-35. U.S. services declare IOC dates. Australia recommitted to their program of record which includes purchasing 100 aircraft beginning in LRIP 10. \$4.5 billion reduction in acquisition, operating and support costs reflected in the SAR 12. Cameri, Italy, FACO operations commenced in July. Netherlands officially announced F-35 win in fighter replacement competition. F-35B completed successful ship suitability testing aboard USS Wasp. The first Netherlands F-35 pilot flew the jet. Lockheed Martin celebrated the inauguration of the 100th F-35.
- **2014** – The first F-35A with a Magellan-manufactured horizontal tail assembly successfully flew first flight. The first Alenia Aermacchi-manufactured wing components installed flew on AF-44. Luke AFB received their first of 144 F-35s. Republic of Korea selected F-35A to replace its fighter fleet. Eglin AFB began night training program. Australia announced additional procurement of 58 jets. The Turkish Ministry of Defence announced its intent to purchase the country's first two F-35As. The final F-35A delivered to Eglin AFB, marking the 58th Fighter Squadron as the first complete USAF F-35A squadron. The first F-35B assigned to VMFAT-501 arrived at USMC Air Station Beaufort. The USN decided to base F-35C aircraft at NAS Lemoore, California. The F-35C completed its first phase of developmental test (DT) aboard an aircraft carrier, three days ahead of schedule.
- **2015** – Turkey ordered four more F-35As. RAF Lakenheath, United Kingdom, was selected as the first USAF base in Europe. Nellis AFB received first F-35A for the USAF Weapons School. The first F-35C for the USMC arrived at Eglin AFB. Squadron Leader Andrew Jackson, Australia's first F-35A pilot, began training at Eglin AFB. Israel signed a contract to buy 14 additional F-35 fighter jets. The Dutch Parliament approved an order for the nation's first eight F-35As. The first internationally built F-35A rolled out of Italian FACO. Luke AFB officially began training pilots. The F-35B completed climatic chamber testing. Marines completed Operational Test 1 (OT-I) with six F-35Bs aboard the USS Wasp. F-35B completed Operational Readiness Inspection at MCAS Yuma ahead of USMC IOC declaration. USMC declared F-35B Initial Operational Capability with 10 jets at MCAS Yuma. The Italian Air Force completed the first fuel transfer from a KC-767A to an F-35A at Edwards AFB. Hill AFB received first two F-35As. AL-1 became the first F-35 to be manufactured and to fly outside the U.S. at the Italian FACO in Cameri, Italy. The first F-35A Norway Delivery Ceremony was held at the Lockheed Martin Fort Worth facility. Hill AFB flew the first combat coded F-35As for the first time as part of the 34th Squadron. The Royal Australian Air Force (RAAF) completed the first fuel transfer from a RAAF KC-30A Multi-Role Tanker Transport (MRTT) to an F-35A at Edwards AFB. Norway's first F-35A accomplished first flight. F-35C completed DT-II ship trials aboard the USS Eisenhower, completing 66 catapults and arrestments four days early. Hill AFB celebrated the arrival of their first F-35As.

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