



## F-35 Lightning II Program Status and Fast Facts December 11, 2012

### Program Status

- Cumulative (SDD & LRIP) flight test activity totals for 2012 as of December 5, are provided below:
  - F-35A conventional takeoff and landing (CTOL) jets have flown 869 times.
  - F-35B short takeoff/vertical landing (STOVL) aircraft have completed 855 flights.
  - F-35C carrier variant (CV) jets have flown 234 times.
- Since December 2006, F-35s have flown 3,543 times and accrued more than 5,556 cumulative flight hours. This total includes 91 flights from the original test aircraft, AA-1; 2,539 SDD test flights; and 913 production-model flights. For video highlights of the F-35 program, [click here](#).
- On November 3, CF-2 flew an HMD Jitter FTR mission completing first pilot evaluation.
- On November 6, F-35 fleet flew 19 flights for the 4th time: 2 EDW, 2 PAX, 3 FTW and 12 Egin.
- On November 14, during setup for a 45,000 ft test point, AF-4 flew to 50,000 ft, the design altitude limit. This is the first time F-35 has flown to 50K.
- On November 15, the first weapon pit drop from an F-35C was conducted dropping a 2,000 lb GBU-31 from CF-2.
- On November 15, the 33rd Fighter Wing completed the training and flying portion of the F-35A's operational utility evaluation at Egin AFB.
- On November 19, AF-4 flew high AOA at 45 and 50 degrees.
- On November 20, Lockheed Martin delivered three F-35Bs to the Marine Corps Air Station Yuma.
- On November 20, F-35 began the integration phase of weapons testing.
- On November 20 & 28, CF-2 performed AIM-120, GBU-12 and GBU-31 pit drops completing CV Block 2B weapons pit drop testing.
- On November 30, BF-1 accomplished the longest duration F-35 hover at 10 minutes.
- On December 3, BF-3 completed the first F-35 airborne GBU-12 separation test.
- On December 3, BF-1 accomplished its 200<sup>th</sup> vertical landing at PAX and completed maximum weight hover, vertical landing and 90 degree translation on December 6.
- On December 4, AF-4 flew the first F-35 High AoA intentional departure mission at EDW.
- On December 4, AF-7 flew the first of three Logistics Training and Evaluation (LTE) missions to support ALIS 1.0.3 A3.2 certification.
- On December 6, BF-4 flew the first STOVL mode night ops, including night hover.
- On December 7, BF-1 flew the 1000th STOVL SDD Flight (includes BF-17 and BF-18).

### F-35 Fleet Status

#### F-35 Deliveries

- 41 F-35s have been delivered to the Department of Defense:
  - 12 System Development and Demonstration (SDD) aircraft
  - 29 Low Rate Initial Production (LRIP) aircraft, including two international F-35s

#### System Development and Demonstration (SDD) Fleet

- 14 F-35s comprise the SDD test fleet. There are six F-35As assigned to Edwards AFB, Calif., and five F-35Bs along with three F-35Cs stationed at Naval Air Station Patuxent River, Md.

#### Low Rate Initial Production (LRIP) Aircraft

- There are 22 LRIP F-35s based at Egin AFB, Fla.
- There are 2 LRIP F-35s based at PAX River NAS, Maryland.
- There are 2 LRIP F-35s based at Edwards AFB, Calif.
- There are 3 LRIP F-35s based at MCAS Yuma, Ariz.
- There are 7 LRIP F-35s undergoing checkout flights at the F-35 production facility in Fort Worth, Texas.

## Funding

- The U.S. Department of Defense and Lockheed Martin reached an agreement in principle on November 30 to manufacture 32 F-35 Lightning II stealth fighters as part of LRIP-5. The contract will also fund manufacturing-support equipment, flight test instrumentation and ancillary mission equipment.
- Long-lead funding approved for Low Rate Initial Production (LRIP) lot 5 and an undefinitized contract action (UCA) was signed on Dec. 9, 2011 (approx. 30 aircraft)
- Full funding approved for LRIP lot 4 (31 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)

## International Partners and Planned Quantities

- USAF 1,763
- USN 260
- USMC 80 F-35Cs/340 F-35Bs
- U.K. RAF/RN 138
- Italy 90
- Netherlands 85
- Turkey 100
- Australia 100
- Norway 52
- Denmark 30
- Canada 65

*\*Based on current programs of record.*

## F-35 Quantities by Variant and Country for LRIP 5, 6, 7

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

#### United States

- 22 F-35A CTOL for the USAF
- 3 F-35B for the U.S. Marine Corps
- 7 F-35C for the U.S. Navy

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

#### United States

- 18 F-35A CTOL for the USAF
- 6 F-35B for the U.S. Marine Corps
- 7 F-35C for the U.S. Navy

#### International

- 3 F-35A CTOL for Italy
- 2 F-35A CTOL for Australia

### LRIP 7 (37 Total) - 29 U.S. / 8 International

#### United States

- 19 F-35A CTOL for the USAF
- 6 F-35B for the U.S. Marine Corps
- 4 F-35C for the U.S. Navy

#### International

- 3 F-35A CTOL for Italy
- 1 F-35B STOV for UK
- 2 F-35A CTOL for Norway
- 2 F-35A CTOL for Turkey

**Current as of December 11, 2012**

*Produced by Lockheed Martin F-35 Communications Team*

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## Decisions

- On August 28, 2012, Lockheed Martin Aeronautics was awarded a \$206,821,828 modification to a previously awarded cost-reimbursement contract to begin phase one of the Israeli System Development and Demonstration program.
- On June 29, 2012 Japan formally signed a Letter of Offer and Acceptance to procure its initial order of four F-35A CTOLs and simulators. (June 2012)
- On June 14, 2012 the Norwegian Parliament approved the country's full participation in the F-35 program. This decision expands Norway's commitment from four training jets approved in 2011 to the full complement of 52 F-35s, subject to annual approvals by Parliament. (June 2012)
- The Turkish Defense Industry Executive Committee authorized the procurement of two F-35 Lightning II aircraft that will be built in Low Rate Initial Production Lot 7. (January 2012)
- The Japan Ministry of Defense announced its selection of the F-35 Lightning II as the Japan Air Self Defense Force's (JASDF) next generation fighter aircraft, following the F-X competitive bid process. The F-35A conventional takeoff and landing variant (CTOL) was offered by the United States government with participation from Lockheed Martin. The initial contract will be for four jets in Japan Fiscal Year 2012, which begins April 1, 2012. (December 2011)
- The Norwegian Parliament unanimously approved the funding of four (4) F-35 Lightning II training jets to begin fulfilling Norway's future air-combat capability requirements. (June 2011)
- The Dutch Parliament made a decision and agreed to procure a second test F-35 Netherlands aircraft for inclusion in the test and evaluation phase of SDD. (April 2011)

## F-35 Specifications

	F-35A CTOL	F-35B STOVL	F-35C CV
<b>Length</b>	51.4 ft / 15.7 m	51.2 ft / 15.6 m	51.5 ft / 15.7 m
<b>Height</b>	14.4 ft / 4.38 m	14.3 ft / 4.36 m	14.7 ft / 4.48 m
<b>Wingspan</b>	35 ft / 10.7 m	35 ft / 10.7 m	43 ft / 13.1 m
<b>Wing area</b>	460 ft <sup>2</sup> / 42.7 m <sup>2</sup>	460 ft <sup>2</sup> / 42.7 m <sup>2</sup>	668 ft <sup>2</sup> / 62.1 m <sup>2</sup>
<b>Horizontal tail span</b>	22.5 ft / 6.86 m	21.8 ft / 6.65 m	26.3 ft / 8.02 m
<b>Weight empty</b>	29,300 lb	32,300 lb	34,800 lb
<b>Internal fuel capacity</b>	18,250 lb / 8,278 kg	13,500 lb / 6,125 kg	19,750 lb / 8,960kg
<b>Weapons payload</b>	18,000 lb / 8,160 kg	15,000 lb / 6,800kg	18,000 lb / 8,160 kg
<b>Standard internal weapons load</b>	<ul style="list-style-type: none"> <li>• 25 mm GAU-22/A cannon</li> <li>• Two AIM-120C air-to-air missiles</li> <li>• Two 2,000-pound GBU-31 JDAM guided bombs</li> </ul>	<ul style="list-style-type: none"> <li>• Two AIM-120C air-to-air missiles</li> <li>• Two 1,000-pound GBU-32 JDAM guided bombs</li> </ul>	<ul style="list-style-type: none"> <li>• Two AIM-120C air-to-air missiles</li> <li>• Two 2,000-pound GBU-31 JDAM guided bombs</li> </ul>
<b>Maximum weight</b>	70,000 lb class	60,000 lb class	70,000 lb class
<b>Propulsion*</b> (uninstalled thrust ratings)	F135-PW-100 40,000 lbs Max. 25,000 lbs Mil. Vertical N/A	F135-PW-600 38,000 lbs Max. 26,000 lbs Mil. 40,500 lbs Vertical	F135-PW-100 40,000 lbs Max. 25,000 lbs Mil. Vertical N/A
<b>Speed (full internal weapons load)</b>	Mach 1.6 (~1,200 mph)	Mach 1.6 (~1,200 mph)	Mach 1.6 (~1,200 mph)
<b>Combat radius (internal fuel)</b>	>590 nm / 1,093 km	>450 nm / 833 km	>600 n.mi / 1,100 km
<b>Range (internal fuel)</b>	>1,200 nm / 2,200 km	>900 nm / 1,667 km	>1,200 n.mi / 2,200 km
<b>Max g-rating</b>	9.0	7.0	7.5

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

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