Highlights of the Last Three Months

- USN receives its first F-35Cs at NAS Lemoore, California. Reinstated VFA-125 “Rough Raiders” become the Navy’s west coast Fleet Replacement Squadron for the F-35C. (Jan. 25)
- USMC VMFA 121 forward deploys F-35Bs from MCAS Yuma to MCAS Iwakuni, marking the first transpacific F-35 crossing and permanent deployment of USMC F-35Bs in Japan (Jan. 18)
- USAF officials announced NAS/JRB Fort Worth, Texas, as the preferred location for the first Air Force Reserve-led F-35 base, which is expected to begin receiving its first F-35As in the mid-2020s. (Jan 12)
- The F-35 program delivered its 200th operational jet, Japan’s AX-2, to Luke AFB, Arizona, for pilot training. (Jan. 11)
- Two F-35As were delivered to Nevatim AB, Israel. This marked the first deliveries to this nation with the Prime Minister and U.S. SECDEF in attendance. (Dec. 12)
- The first Japanese F-35A was delivered to Luke AFB, Arizona, for training. This marked the first delivery to this nation. (Nov. 29)
- Israel announces through a unanimous vote to increase its F-35A order from 33 to 50 jets. (Nov. 27)
- F-35B DT-III sea trials were conducted off the west coast of the United States Oct. 29 - Nov. 21. This was the last full test prior to the USMC deploying the F-35B to Japan in 2017. At one time, 12 F-35Bs operated aboard the USS America at once. (Nov. 22)
- DoD assigned F-35 Maintenance, Repair, Overhaul and Upgrade (MRO&U) capability for the first component repair assignments Outside the Continental United States (OCONUS), for the first 65 of 774 repairables. The assignments went to Australia, Netherlands and the U.K. (Nov. 7)
- U.S. Government finalized the LRIP 9 contract for F-35 aircraft issuing a unilateral contract to Lockheed Martin. (Nov. 2)
- Turkey approved funding for an additional 24 aircraft funding 30 of the 100 on its program of record. (Oct. 21)
- The U.S. Navy hosted its first live-fire demonstration to successfully test the integration of the F-35 with existing Naval Integrated Fire Control-Counter Air (NIFC-CA) architecture. (Sept. 12)
- F-35s have flown more than 80,000 cumulative flight hours since December 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
- 46 jets delivered in 2016

Program of Record

<table>
<thead>
<tr>
<th>Country</th>
<th>JSF Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>USAF</td>
<td>1,763 F-35As</td>
</tr>
<tr>
<td>DoN (USN/USMC)</td>
<td>680 F-35B/Cs</td>
</tr>
<tr>
<td>U.K. RAF/RN</td>
<td>138 F-35s</td>
</tr>
<tr>
<td>Italy</td>
<td>60 F-35As/30 F-35Bs</td>
</tr>
<tr>
<td>Netherlands</td>
<td>37 F-35As</td>
</tr>
<tr>
<td>Turkey</td>
<td>100 F-35As</td>
</tr>
<tr>
<td>Australia</td>
<td>100 F-35As</td>
</tr>
<tr>
<td>Norway</td>
<td>52 F-35As</td>
</tr>
<tr>
<td>Denmark</td>
<td>27 F-35As</td>
</tr>
<tr>
<td>Canada</td>
<td>65 F-35As</td>
</tr>
<tr>
<td>Israel</td>
<td>50 F-35As</td>
</tr>
</tbody>
</table>
Japan 42 F-35As
S. Korea 40 F-35As

Funding
- Long-lead funding LRIP lot 10 (90 aircraft)
- Full funding approved for 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
- In 2014, the DoD announced an industry-led effort called “Blueprint for Affordability” and expanded the effort in 2016 from a $1.8 billion to a $4 billion savings initiative. Also in 2016, it announced the Sustainment Cost Reduction Initiative to save an additional $1 billion savings through 2022. The goal of these programs is to drive the cost of an F-35A to less than $85 million in 2019, where it will be equivalent to, or less, than any 4th-generation fighter.
- The LRIP 9 contract reflects an average airframe unit cost approximately 5.5 percent lower than the LRIP 8 contract signed in 2014 and an approximate 60 percent reduction since LRIP 1.
- LRIP 9 Aircraft Costs (including jet, engine and profit):
  - 42 F-35As CTOL - $102.1 million/jet
  - 13 F-35B STOVL - $131.6 million/jet
  - 2 F-35C CV - $132.2 million/jet

F-35 Quantities by Variant and Country for LRIP 1 – 9
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
  - 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 STOVL for the U.S. Marine Corps
- 4 F-35C CV for the U.S. Navy
International
- 4 F-35B STOVL for U.K.
- 2 F-35A CTOL for Norway
- 2 F-35A CTOL for Italy
- 4 F-35A CTOL for Japan

LRIP 9 (57 Total) - 34 U.S. / 23 International (6 UK, 6 Norway, 2 Italy, 2 Japan, 7 Israel)
United States
- 26 F-35A CTOL for the U.S. Air Force
- 6 F-35B STOVL for the U.S. Marine Corps
- 2 F-35C CV for the U.S. Navy
International
- 6 F-35B STOVL for UK
- 6 F-35A CTOL for Norway
- 1 F-35A CTOL and 1 F-35B STOVL for Italy
- 2 F-35A CTOL for Japan
- 7 F-35A CTOL for Israel

F-35 Specifications

<table>
<thead>
<tr>
<th></th>
<th>F-35A CTOL</th>
<th>F-35B STOVL</th>
<th>F-35C CV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>51.4 ft / 15.7 m</td>
<td>51.2 ft / 15.6 m</td>
<td>51.5 ft / 15.7 m</td>
</tr>
<tr>
<td>Height</td>
<td>14.4 ft / 4.38 m</td>
<td>14.3 ft / 4.36 m</td>
<td>14.7 ft / 4.48 m</td>
</tr>
<tr>
<td>Wingspan</td>
<td>35 ft / 10.7 m</td>
<td>35 ft / 10.7 m</td>
<td>43 ft / 13.1 m</td>
</tr>
<tr>
<td>Wing area</td>
<td>460 ft² / 42.7 m²</td>
<td>460 ft² / 42.7 m²</td>
<td>668 ft² / 62.1 m²</td>
</tr>
<tr>
<td>Horizontal tail span</td>
<td>22.5 ft / 6.86 m</td>
<td>21.8 ft / 6.65 m</td>
<td>26.3 ft / 8.02 m</td>
</tr>
<tr>
<td>Weight empty</td>
<td>29300 lb</td>
<td>32300 lb</td>
<td>34800 lb</td>
</tr>
</tbody>
</table>
**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.


- **2013** – First F-35C production model delivered. The first four F-35s arrived at Nellis AFB for operational testing. U.S. Marine Corps 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 its 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 U.S. Air Force 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-I) aboard USS Nimitz. The F-35B STOVL 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.

- **2015** – Turkey ordered four more F-35As. RAF Lakenheath, United Kingdom, was selected as the first USAF base in Europe. Nellis AFB received its first F-35A for the USAF Weapons School. The first F-35C for the USMC arrived at Eglin AFB. Squad 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 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

2016 - U.K. MOD, USMC and USAF announce jets participating at 2016 Royal International Air Tattoo and 2016 Farnborough Air Show. The first F-35A full wing-set produced by Italy’s Finmeccanica-Aeronautics at the Cameri, Italy, (FACO) facility, made its first flight on AF-88 in Fort Worth, Texas. AS-1, Israel’s first F-35A, begins the mate process at the Fort Worth production facility. Airmen from Hill AFB drop the first laser-guided bomb from an F-35A outside the testing environment. Six Operational Test and Evaluation F-35As from 53rd Fighter Wing deploy to Mountain Home AFB, Idaho to simulate a squadron deployment to a base with no existing F-35 support. An Italian Air Force F-35A, AL-1, completes the first transatlantic crossing of an F-35 by flying from Cameri Air Base, Italy, to NAS Patuxent River, Maryland. A new lightweight Gen-III F-35 helmet successfully completes the first round of testing aimed at fixes to the jet’s escape system. Israel announces its first two F-35As are scheduled to land in country on Dec. 12. Gen. Chris Bogdan, F-35 Program Executive Officer, testifies before U.S. Senate Armed Services Committee saying radar stability issues are fixed with updated 3i software. F-35 Joint Program Office declares development of 2B and 3i software complete, giving full attention to 3F software which contains the full initial warfighting capability for all variants. Dutch F-35As AN-1 and AN-2 deployed from Edwards AFB to Leeuwarden Air Base, Netherlands, for environmental testing and participation in RNLAF Open Days at Leeuwarden AB. Netherlands tests proved F-35A no louder than F-16s during extensive noise testing. Denmark’s Government announces procurement of 27 F-35As. Hill AFB F-35As deployed to Mountain Home AFB with seven jets and 190 people. Jet executed IOC mission tests including SEAD, CAS and Air Interdiction: 88 of 88 sorties flown, 97 percent Mission Capable Rate and F-35A was undefeated in engagements with 4th Gen aircraft. UK/USAF/USMC F-35Bs and F-35As deploy to RAF Fairford for three week deployment. The U.S. armed services decide to extend the operational life of the F-35 fleet by six years. Eielson Air Force Base, Alaska, is selected as the new home for the Air Force’s first operational overseas F-35A squadron scheduled to arrive in 2020. More than 425,000 people attend the 75 Years of Airpower air show at Luke AFB where the F-35A makes its debut appearance as part of the F-35 Heritage Team. Israel celebrated the rollout of its first F-35A Adir from the Fort Worth, Texas, factory. Blueprint for Affordability two year extension and start of a Sustainment Cost Reduction Initiative that will save the program almost $6 billion is announced at Farnborough. Israel’s first F-35A, AS-1, flies its first flight. United States Air Force declares Initial Operational Capability for the F-35A. Two F-35As from Hill Air Force Base, Utah, make first-ever F-35 appearance in Canada at the Abbotsford International Airshow. Seven F-35Cs land aboard USS George Washington (CVN 73) for DT-III ship trials – two from the Patuxent River Integrated Test Force and five from VFA-101 Grim Reapers, based at Eglin Air Force Base, Florida. These are the first fleet pilots to complete carrier qualifications aboard an aircraft carrier in an F-35C. 12 Weapons Delivery Accuracy and 13 Weapon Separation tests as part of a month-long weapons firing test surge are completed. The U.S. Navy hosted its first live-fire demonstration to successfully test the integration of F-35 with existing Naval Integrated Fire Control-Counter Air (NIFC-CA) architecture. Turkey approved funding for an additional 24 aircraft, funding 30 of the 100 F-35s on its program of record. U.S. Government finalized the LRIP 9 contract for F-35 aircraft issuing a unilateral contract to Lockheed Martin. DOD assigned F-35 Maintenance, Repair, Overhaul and Upgrade (MRO&U) capability for the first component repair assignments Outside the Continental United States (OCONUS), for the first 65 of 774 repairables. The assignments went to Australia, Netherlands and the U.K. F-35B DT-III sea trials were conducted off the west coast of the United States Oct. 29 - Nov. 21. This was the last full test prior to the USMC deploying the F-35B to Japan in 2017. At one time, 12 F-35Bs operated aboard the USS America at once. The first Japanese F-35A was delivered to Luke AFB, Arizona, for training. This marked the first delivery to this nation. Two F-35As were delivered to Amendola AB, Italy. This marked the first deliveries to this nation. Two F-35As were delivered to Nevatim AB, Israel. This marked the first deliveries to this nation with the Prime Minister and U.S. SECDEF in attendance.