F-35 Lightning II Program Status and Fast Facts

Recent Milestones

- Lockheed Martin Meets 2018 F-35 Production Target with 91 Aircraft Deliveries [December 20]
- Japan Announces Plans to Increase F-35 Program of Record to 147 Aircraft [December 18]
- U.S. Navy Strike Fighter Squadron VFA 147 Declares Safe-for-Flight [December 12]
- Australia’s first F-35s arrive home To RAAF Williamtown [December 10]
- U.S. Air Force proposes basing three F-35 squadrons at Tyndall Air Force Base [December 7]
- F-35 program starts formal Operational Testing [December 6]
- Italian Air Force declares Initial Operational Capability (IOC) on their fleet of F-35As [November 30]
- F-35Bs Complete Testing Aboard the HMS Queen Elizabeth [November 22]
- F-35 Joint Program Office awards Undefinitized Contract Action for more than 250 F-35s [November 14]
- U.S. Air Force conducts first ever F-35 combat power exercise at Hill Air Force Base, Utah [November 19]
- The Belgian Government Selects The F-35 As Its Next-Generation Fighter [October 25]

Program Status

- 355+ Aircraft delivered
- Flight Hours: 175,001
- 16 Bases worldwide
- 730+ Pilots
- 6,700+ Maintainers

Program of Record

- U.S.A.
  - USAF 1,763 F-35As
  - DoD 673 F-35B/Cs
  - IOC, USMC: 7/15, USAF 8/16
- U.K.
  - RAF/RN 138 F-35s
- Italy
  - 60 F-35As/30 F-35Bs
  - IOC: 12/18
- Netherlands
  - 37 F-35As
- Turkey
  - 100 F-35As
- Australia
  - 100 F-35As
- Norway
  - 52 F-35As
- Denmark
  - 27 F-35As
- Canada
  - 88 F-35As
- Israel
  - 50 F-35As
  - IOC: IAF: 12/17
- Japan
  - 105 F-35As/42 F-35Bs
- Republic of Korea
  - 40 F-35As
- Belgium
  - 34 F-35As

Program Cost

- LRIP 1-11 Cost
  - F-35A: $89.2M
  - F-35B: $115.5M
  - F-35C: $107.7M
- Total Aircraft Quantities LRIP 1-11: 499

Cost Reduction Statistics

- More than 60% reduction in Unit Recurring Flyaway cost since Lot 1
- More than 5% reduction in Unit Recurring Flyaway since previous contract
- Blueprint for Affordability is delivering projected savings of more than $4 billion over the life of the program
- Second phase of the Blueprint for Affordability is projected to save an additional $2 billion over the life of the program
- As production ramps and additional improvements are implemented, Lockheed Martin’s goal is to reduce the cost of an F-35A to $80 million by 2020.
Economic Impact

- 1,600 top tier suppliers around the globe, including more than 1,500 U.S.-based suppliers.
- Final Assembly factories in Fort Worth, Texas; Cameri, Italy; and Nagoya, Japan
- Suppliers located in 46 U.S. states and Puerto Rico
- 194,000 direct and indirect jobs supported in the US
- $31 billion of annual U.S. economic impact

F-35 Production

*Planned delivery quantities beyond 2018 are approximate based on the current F-35 production profile.

F-35 Lightning II Specs

<table>
<thead>
<tr>
<th></th>
<th>F-35A</th>
<th>F-35B</th>
<th>F-35C</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>
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<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>
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<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>
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<tr>
<td>Weight empty</td>
<td>29,300 lb</td>
<td>32,300 lb</td>
<td>34,800 lb</td>
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<tr>
<td>Internal fuel capacity</td>
<td>18,250 lb / 8278 kg</td>
<td>13,500 lb / 6,125 kg</td>
<td>19,750 lb / 8,960 kg</td>
</tr>
<tr>
<td>Weapons payload</td>
<td>18,000 lb / 8,160 kg</td>
<td>15,000 lb / 6,800 kg</td>
<td>18,000 lb / 8,160 kg</td>
</tr>
<tr>
<td>Standard internal weapons load</td>
<td>• 25 mm GAU-22/A cannon</td>
<td>• Two AIM-120C/D air-to-air missiles</td>
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<tr>
<td></td>
<td>• Two 2,000-pound GBU-31 JDAM guided bombs</td>
<td>• Two 1,000-pound GBU-32 JDAM guided bombs</td>
<td>• Two 1,000-pound GBU-32 JDAM guided bombs</td>
</tr>
<tr>
<td>Maximum weight</td>
<td>70,000 lb class</td>
<td>60,000 lb class</td>
<td>70,000 lb class</td>
</tr>
<tr>
<td>Propulsion*</td>
<td>F135-PW-100 40,000 lb Max. 25,000 lb Mil. Vertical N/A</td>
<td>F135-PW-600 40,000 lb Max. 25,000 lb Mil. 40,500 lb Vertical</td>
<td>F135-PW-100 40,000 lb Max. 25,000 lb Mil. Vertical N/A</td>
</tr>
<tr>
<td>Speed (full internal weapons load)</td>
<td>Mach 1.6 (~1,200 mph)</td>
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</tr>
<tr>
<td>Combat radius (internal fuel)</td>
<td>&gt;590 nm / 1,093 km (USAF profile)</td>
<td>&gt;650 nm / 833 km (USMC profile)</td>
<td>&gt;600 nm / 1,100 km (USN profile)</td>
</tr>
<tr>
<td>Range (internal fuel)</td>
<td>&gt;1,200 nm / 2,200 km (USAF profile)</td>
<td>&gt;900 nm / 1,667 km (USMC profile)</td>
<td>&gt;1,200 nm / 2,200 km (USN profile)</td>
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<tr>
<td>Max g-rating</td>
<td>9.0</td>
<td>7.0</td>
<td>7.5</td>
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