F-35 Lightning II Program Status and Fast Facts

Recent Milestones

- First Among All The Partner Nations, Italy Deploys F-35s To Iceland For NATO Air Policing Mission, September 26
- Vermont Air National Guard Receives its first two F-35As, September 19
- Royal Netherlands Air Force receives first Italian-built F-35A, September 12
- The U.S. State Department approves the sale of 32 F-35As to Poland, September 11
- Lockheed Martin receives $2.43B contract to support F-35 spares in the field, as well as build capacity to support the growing global fleet, August 23
- Japan Ministry of Defense officially selects the F-35B for its STOVL aircraft requirement, August 16
- U.S. Marine Corp’s Capt. Anneliese Satz becomes the first female Marine to complete the F-35B Basic Course, August 15
- Lockheed Martin and U.S. Air Force set speed record for bringing online a newly-delivered F-35A, flying a local sortie less than five hours after delivery, August 6

Program Cost

<table>
<thead>
<tr>
<th>Aircraft</th>
<th>LRIP 11 Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-35A</td>
<td>$89.2M</td>
</tr>
<tr>
<td>F-35B</td>
<td>$115.5M</td>
</tr>
<tr>
<td>F-35C</td>
<td>$107.7M</td>
</tr>
</tbody>
</table>

Total Aircraft Quantities LRIP 1-11: 501

F-35 Affordability

- Lockheed Martin and the Pentagon reached a handshake agreement for the F-35 Lot 12 production contract, with options for Lots 13 and 14.
- In the latest agreement, the F-35 Enterprise has achieved its cost reduction goal of delivering a less than $80 million aircraft in Lot 13, one year earlier than planned.
- The agreement represents an 8.8 percent savings from Lot 11 to Lot 12 F-35As, and an approximate average of 15 percent URF reduction across all three variants from Lot 11 to 14.
- At less than $80 million, the F-35 is a 5th Generation aircraft at equal to or less than the price of legacy 4th Generation aircraft.

Program of Record

- U.S.A.
  - USAF 1,763 F-35As
  - FDN: 493 F-35B/Es
  - IOC: USM, 2015
  - USAF 8/16, USN 2/19
- U.K.
  - RAF/RN 138 F-35s
  - IOC: 1/19
- 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: IAIF, 12/17
- Japan
  - 105 F-35As/42 F-35Bs
  - IOC: 3/19
- Republic of Korea
  - 48 F-35As
- Belgium
  - 34 F-35As

*The Department of Defense announced plans on July 17, 2019 to remove Turkey from the F-35 program.
Economic Impact

- 1,500+ top tier suppliers around the globe, including more than 1,400 U.S. and Puerto Rico-based suppliers.
- Final Assembly factories in Fort Worth, Texas; Cameri, Italy; and Nagoya, Japan
- Suppliers located in 45 U.S. states and Puerto Rico
- Over 220,000 direct and indirect jobs supported in the US
- Over $44.2 billion of total 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>
</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>
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<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>29,300 lb</td>
<td>32,300 lb</td>
<td>34,800 lb</td>
</tr>
<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>
<td>• Two AIM-120C/D air-to-air missiles</td>
</tr>
<tr>
<td></td>
<td>• Two AIM-120C/D air-to-air missiles</td>
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<td></td>
</tr>
<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 2,000-pound GBU-31 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* (uninstalled thrust ratings)</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>
<td>Mach 1.6 (~1,200 mph)</td>
<td>Mach 1.6 (~1,200 mph)</td>
</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>
</tr>
<tr>
<td>Max g-rating</td>
<td>9.0</td>
<td>7.0</td>
<td>7.5</td>
</tr>
</tbody>
</table>

All information current as of October 3, 2019

For additional questions and the latest data, please contact Carolyn Nelson or Mike Friedman