F-35 Lightning II Program Status and Fast Facts

**Recent Milestones**
- RAF Marham welcomed the arrival of 207 Squadron — the second F-35 training squadron for the United Kingdom. **July 17**
- Hill AFB’s F-35As expand combat capability during Operation Rapid Forge as part of a joint readiness exercise. **July 19**
- Life Saving Anti-Collision Software Integrated into First F-35s Seven Years Ahead of Schedule. **July 24**
- Royal Air Force F-35Bs deploy to Amendola Air Base, Italy for bilateral training with the Italian Air Force. **July 3**
- Royal Air Force F-35Bs conducts first operational mission in support of Operation Shader. **June 25**
- The United States, United Kingdom and Israel participate in F-35 Exercise Tri-Lightning over the Eastern Mediterranean Sea. **June 26**
- Hill AFB’s F-35 fighter wings demonstrate global reach, operating from nine counties in seven days. **June 18**
- Joint government and industry team wins prestigious Collier Award Trophy for life-saving AutoGCAS tech. **June 13**
- U.S. Marine Corps F-35B conducts first-time flyover above White House. **June 12**

**F-35 by the Numbers**

- **420+ Aircraft Delivered**
- **850+ Bases Worldwide**
- **8 Nations Operating F-35s on Home Soil**
- **7 Services Declared IOC**
  - USAF, USN and USMC
- **4 Services Have Conducted F-35 Combat Operations**
  - USAF
  - USMC

**Program Cost**
- **LRIP 11 Cost**
  - F-35A: $89.2M
  - F-35B: $115.5M
  - F-35C: $107.7M

**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
  - PAF: 499 F-35B/Cs
  - IOC: USMC: 7/15, 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: IAF: 12/17
- **Japan**
  - 105 F-35As/42 STOVL
  - IOC: 3/19
- **Republic of Korea**
  - 40 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>Spec</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>
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<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>
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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>
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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>
<td>• Two AIM-120C/D air-to-air missiles</td>
</tr>
<tr>
<td></td>
<td>• Two AIM-120C/D air-to-air missiles</td>
<td>• Two 1,000-pound GBU-31 JDAM guided bombs</td>
<td>• Two 2,000-pound GBU-31 JDAM guided bombs</td>
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<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>
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</tr>
<tr>
<td>Combat radius (internal fuel)</td>
<td>&gt;590 nm / 1,093 km (USAF profile)</td>
<td>&gt;450 nm / 833 km (USMC profile)</td>
<td>&gt;600 nm / 1,100 km (USN profile)</td>
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<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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All information current as of August 6, 2019
For additional questions and the latest data, please contact Carolyn Nelson or Mike Friedman