March 5, 2019

F-35 Lightning II Program Status and Fast Facts

Program Status

- **Flight Hours**: 1,800,000
- **Bases worldwide**: 770+
- **Pilots**: 7,100+
- **Maintainers**: 770+
- **Aircraft delivered**: 370+

Recent Milestones

- The Department of Navy declares Initial Operational Capability (IOC) for its fleet of F-35Cs. [February 28]
- The Republic of Singapore announce its plans to buy an initial four F-35 fighter jets to replace its aging fleet of F-16s. [February 28]
- U.S. Marine Corps F-35Bs fly 1,200 flight hours and maintain 75 percent aircraft availability on first combat deployment aboard the USS Essex. [February 25]
- Twelve USAF F-35’s from Hill Air Force Base, Utah deliver lethality and survivability at Red Flag 19-1 while exceeding 90 percent mission capable rates. [February 15]
- Lockheed Martin and Royal Netherlands Air Force celebrate rollout of the first Dutch operational F-35. [January 30]
- The United Kingdom declares Initial Operational Capability (IOC) for their land-based fleet of F-35Bs. [January 10]
- 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]

Program Cost

**LRIP 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.

Program of Record

- U.S.A.
  - USAF 1,763 F-35As
  - 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
- Republic of Korea
  - 40 F-35As
- Belgium
  - 34 F-35As

Foreign Military Sales

- December 18: Japan Announces Plans to increase F-35 program of record to 147 aircraft.
### 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>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>
</tr>
<tr>
<td>Height</td>
<td>14.4 ft / 4.38 m</td>
<td>14.3 ft / 4.36 m</td>
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<tr>
<td>Wingspan</td>
<td>35 ft / 10.7 m</td>
<td>35 ft / 10.7 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>
</tr>
<tr>
<td>Horizontal tail span</td>
<td>22.5 ft / 6.86 m</td>
<td>21.8 ft / 6.65 m</td>
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<tr>
<td>Weight empty</td>
<td>29,300 lb</td>
<td>32,300 lb</td>
</tr>
<tr>
<td>Internal fuel capacity</td>
<td>18,250 lb / 8278 kg</td>
<td>13,500 lb / 6,125 kg</td>
</tr>
<tr>
<td>Weapons payload</td>
<td>18,000 lb / 8,160 kg</td>
<td>15,000 lb / 6,800 kg</td>
</tr>
</tbody>
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**Standard internal weapons load**
- 25 mm GAU-22/A cannon
- Two AIM-120C/D air-to-air missiles
- Two 2,000-pound GBU-31 JDAM guided bombs
- Two AIM-120C/D air-to-air missiles
- Two 1,000-pound GBU-32 JDAM guided bombs
- Two 2,000-pound GBU-31 JDAM guided bombs

**Maximum weight**
- 70,000 lb class
- 60,000 lb class
- 70,000 lb class

**Propulsion**
- (uninstalled thrust ratings)
  - F135-PW-100
    - 40,000 lb Max.
    - 25,000 lb Mil.
    - Vertical N/A
  - F135-PW-600
    - 40,000 lb Max.
    - 25,000 lb Mil.
    - 40,500 lb Vertical
  - F135-PW-100
    - 40,000 lb Max.
    - 25,000 lb Mil.
    - Vertical N/A

**Speed (full internal weapons load)**
- Mach 1.6 (~1,200 mph)
- Mach 1.6 (~1,200 mph)
- Mach 1.6 (~1,200 mph)

**Combat radius (internal fuel)**
- >590 nm / 1,093 km (USAF profile)
- >450 nm / 833 km (USMC profile)
- >600 nm / 1,100 km (USN profile)

**Range (internal fuel)**
- >1,200 nm / 2,200 km (USAF profile)
- >900 nm / 1,667 km (USMC profile)
- >1,200 nm / 2,200 km (USN profile)

**Max g-rating**
- 9.0
- 7.0
- 7.5