F-35 LIGHTNING II PROGRAM STATUS AND FAST FACTS

May 14, 2018

RECENT MILESTONES

• Pentagon And Lockheed Martin Finalize 2018 F-35 Sustainment Contract To Enhance Readiness And Reduce Cost. (April 30)
• Lockheed Martin Opens New Facility To Support F-35 Production Growth. (April 30)
• U.S. Navy Strike Fighter Squadron 147 Executes First F-35C Flight. (April 18)
• F-35 Aircraft Make Their Debut in Germany For ILA Berlin. (April 20)
• Royal Air Force’s Legendary Dambusters Squadron Reforms To Fly F-35 Jets. (April 18)
• F-35 Completes Most Comprehensive Flight Test Program In Aviation History. (April 12)
• F-35B Visits CENTCOM As It Prepares To Enter Theater. (April 4)
• U.S. Marine Fighter Attack Squadron (VMFA) 122 conducts first flight operations in the F-35B at MCAS Yuma, Arizona. (March 29)
• U.S. and Republic of Korea Officials Celebrate Debut of South Korea’s First F-35A. (March 28)
• U.S. Navy Conducts F-35C Carrier Qualifications Aboard the USS Abraham Lincoln. (March 23)
• U.S. Marine Corps F-35B joins the USS Wasp in Historic First Deployment at Sea. (March 5)
• Japan Air Self-Defense Force Commemorates First F-35 Arrival to Misawa Air Base. (Feb. 24)

PROGRAM OF RECORD

FOREIGN MILITARY SALES

U.S.A.
USAF 1,763 F-35As
DoD 693 F-35B/Cs
IOC: USMC: 7/15, USAF 8/16

U.K.
RAF/RN 138 F-35s

Italy
60 F-35As/30 F-35Bs

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
42 F-35As

Republic of Korea
40 F-35As

Cost Reduction Statistics

• More than 60% reduction in Unit Recurring Flyway cost since Lot 1
• 8% reduction in Unit Recurring Flyway 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 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>
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</thead>
<tbody>
<tr>
<td><strong>Length</strong></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><strong>Height</strong></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><strong>Wingspan</strong></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><strong>Wing area</strong></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><strong>Horizontal tail span</strong></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><strong>Weight empty</strong></td>
<td>29,300 lb</td>
<td>32,300 lb</td>
<td>34,800 lb</td>
</tr>
<tr>
<td><strong>Internal fuel capacity</strong></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><strong>Weapons payload</strong></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><strong>Standard internal weapons load</strong></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 AIM-120C/D air-to-air missiles</td>
<td>• Two 1,000-pound GBU-32 JDAM guided bombs</td>
<td>• Two 2,000-pound GBU-31 JDAM guided bombs</td>
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<tr>
<td><strong>Maximum weight</strong></td>
<td>70,000 lb class</td>
<td>60,000 lb class</td>
<td>70,000 lb class</td>
</tr>
<tr>
<td><strong>Propulsion</strong></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><strong>Speed (full internal weapons load)</strong></td>
<td>Mach 1.6 (~1,200 mph)</td>
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</tr>
<tr>
<td><strong>Combat radius (internal fuel)</strong></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>
</tr>
<tr>
<td><strong>Range (internal fuel)</strong></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><strong>Max g-rating</strong></td>
<td>9.0</td>
<td>7.0</td>
<td>7.5</td>
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