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# **NASA Appropriations and Authorizations: A Fact Sheet**

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## Contents

Overview ..... 1

## Figures

Figure 1. NASA Funding, FY1958-FY2019 ..... 5

## Tables

Table 1. NASA Appropriations, FY2014-FY2019 ..... 2  
Table 2. NASA Appropriations and Authorizations, FY2019 ..... 3  
Table 3. NASA Appropriations, FY2020..... 4

## Contacts

Author Contact Information ..... 5

## Overview

Congressional deliberations about the National Aeronautics and Space Administration (NASA) often focus on the availability of funding. This fact sheet provides data on past and current NASA appropriations, as well as the President's budget request for FY2020 and congressional action on FY2020 appropriations. Through November 21, 2019, NASA is operating under a continuing resolution (P.L. 116-59) at the FY2019 rate of funding.

**Table 1** shows appropriations for NASA from FY2014 through FY2019. The data for FY2014 through FY2018 include supplemental appropriations, rescissions, transfers, and reprogramming. They are taken from NASA's congressional budget justifications for FY2016 through FY2020.<sup>1</sup> Congressional budget justifications are available on the NASA budget website (<http://www.nasa.gov/news/budget/>) for the current year and for past years back to FY2002. The data for FY2019 are as enacted by the Consolidated Appropriations Act, 2019 (P.L. 116-6). For amounts not specified in that act, see the conference report, H.Rept. 116-9.

**Table 2** shows FY2018 appropriations as enacted (i.e., without the supplemental appropriations and other adjustments reflected in **Table 1**); the Administration's request for FY2019; authorization and appropriations amounts for FY2019 that were proposed in legislation in the 115<sup>th</sup> and 116<sup>th</sup> Congresses; and the appropriations for FY2019 that were enacted in February 2019 in the Consolidated Appropriations Act, 2019 (P.L. 116-6).

**Table 3** shows FY2019 appropriations as enacted, the Administration's request for FY2020, additional FY2020 funding requested in the Administration's May 2019 budget amendment, and FY2020 funding that would be provided by the Commerce, Justice, Science, and Related Agencies Appropriations Act, 2020 (Division A of H.R. 3055 as passed by the House in June 2019) and the Departments of Commerce and Justice, Science, and Related Agencies Appropriations Bill, 2020 (S. 2584) as reported in September 2019.

Note that the Administration's budget requests for FY2019 and FY2020 proposed new names for some NASA accounts. In the enacted FY2019 appropriation, Education became Science, Technology, Engineering and Mathematics (STEM) Engagement. The Administration has also proposed renaming Space Technology as Exploration Technology; Exploration as Deep Space Exploration Systems; and Space Operations as Low Earth Orbit (LEO) and Spaceflight Operations. The Administration's proposals would also transfer certain activities from Exploration to Space Technology, so the amounts shown for those items in **Table 2** and **Table 3** represent somewhat different content in different columns.

<sup>1</sup> FY2016 and FY2017 Education amounts are not shown in the FY2018 and FY2019 congressional budget justifications and are instead taken from the explanatory statement for the Consolidated Appropriations Act, 2016 (P.L. 114-113), *Congressional Record*, December 17, 2015, pp. H9741-H9743, and the explanatory statement for the Consolidated Appropriations Act, 2017 (P.L. 115-31), *Congressional Record*, May 3, 2017, pp. H3374-H3375.

**Figure I** shows NASA’s total annual budget authority from the agency’s establishment in FY1958 to FY2019, in both current dollars and inflation-adjusted FY2019 dollars.

For additional information on selected NASA programs, see also CRS In Focus IF10940, *The James Webb Space Telescope*; CRS In Focus IF10828, *The International Space Station (ISS) and the Administration’s Proposal to End Direct NASA Funding by 2025*; and the discussion of NASA’s use of commercial space capabilities in CRS Report R45416, *Commercial Space: Federal Regulation, Oversight, and Utilization*.

**Table I. NASA Appropriations, FY2014-FY2019**  
(budget authority in \$ millions)

	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
<b>Science</b>	<b>\$5,148</b>	<b>\$5,243</b>	<b>\$5,584</b>	<b>\$5,762</b>	<b>\$6,212</b>	<b>\$6,906</b>
Earth Science	1,825	1,784	1,927	1,908	1,921	1,931
Planetary Science	1,346	1,447	1,628	1,828	2,218	2,759
Astrophysics	678	731	762	783	850	1,192
James Webb Space Telescope	658	645	620	569	534	305
Heliophysics	641	636	647	675	689	720
<b>Aeronautics</b>	<b>566</b>	<b>642</b>	<b>634</b>	<b>656</b>	<b>685</b>	<b>725</b>
<b>Space Technology</b>	<b>576</b>	<b>600</b>	<b>686</b>	<b>687</b>	<b>760</b>	<b>927</b>
<b>Exploration</b>	<b>4,113</b>	<b>3,543</b>	<b>3,996</b>	<b>4,324</b>	<b>4,790</b>	<b>5,051</b>
Exploration Systems Development	3,115	3,212	3,641	3,929	4,395	4,093
<i>Orion</i>	1,197	1,190	1,270	1,330	1,350	1,350
<i>Space Launch System</i>	1,600	1,679	1,972	2,127	2,150	2,150
<i>Exploration Ground Systems</i>	318	343	399	472	895	593
Commercial Spaceflight	696	— <sup>a</sup>	— <sup>a</sup>	— <sup>a</sup>	— <sup>a</sup>	— <sup>a</sup>
Exploration R&D	302	331	355	395	395	958
<b>Space Operations</b>	<b>3,774</b>	<b>4,626</b>	<b>5,032</b>	<b>4,943</b>	<b>4,749</b>	<b>4,639</b>
Space Shuttle	0	8	5	0	0	0
International Space Station	2,964	1,525	1,436	1,451	1,493	n/s
Space Transportation	— <sup>b</sup>	2,254	2,668	2,589	2,346	n/s
Space and Flight Support	810	839	923	903	910	n/s
Commercial LEO Development	—	—	—	—	—	40
<b>Education / STEM Engagement</b>	<b>117</b>	<b>119</b>	<b>115</b>	<b>100</b>	<b>100</b>	<b>110</b>
Space Grant	40	40	40	40	40	44
EPSCoR	18	18	18	18	18	21
MUREP	30	32	32	32	32	33
Other	29	29	25	10	10	12
<b>Safety, Security, &amp; Mission Svcs.</b>	<b>2,793</b>	<b>2,755</b>	<b>2,772</b>	<b>2,769</b>	<b>2,827</b>	<b>2,755</b>
<b>Construction and EC&amp;R</b>	<b>522</b>	<b>446</b>	<b>427</b>	<b>485<sup>c</sup></b>	<b>657<sup>d</sup></b>	<b>348</b>
<b>Inspector General</b>	<b>38</b>	<b>37</b>	<b>37</b>	<b>38</b>	<b>39</b>	<b>39</b>
<b>Total</b>	<b>17,647</b>	<b>18,010</b>	<b>19,285</b>	<b>19,762<sup>c</sup></b>	<b>20,817<sup>d</sup></b>	<b>21,500</b>

**Sources:** FY2014-FY2018 from NASA FY2016-FY2020 congressional budget justifications. FY2019 from P.L. 116-6 and H.Rept. 116-9.

**Notes:** Some totals may not add because of rounding. R&D = Research and Development. LEO = Low Earth Orbit. STEM = Science, Technology, Engineering, and Mathematics. EPSCoR = Established Program to Stimulate Competitive Research. MUREP = Minority University Research and Education Program. EC&R = Environmental Compliance and Remediation. n/s = not specified.

- a. Included in Space Transportation under Space Operations.
- b. Commercial Crew funded under Exploration. Remainder of Space Transportation included in International Space Station.
- c. Includes \$109 million in additional emergency funding from Section 540 of the Consolidated Appropriations Act, 2017 (P.L. 115-31) that is not shown in the NASA FY2019 congressional budget justification.
- d. Includes \$81 million in supplemental emergency funding from the Further Additional Supplemental Appropriations for Disaster Relief Requirements Act, 2018 (Division B of P.L. 115-123) that is not shown in the NASA FY2020 congressional budget justification.

**Table 2. NASA Appropriations and Authorizations, FY2019**

(budget authority in \$ millions)

	FY2018 Enacted	FY2019 Appropriations				FY2019 Auth.	
		Request	House (115 <sup>th</sup> )	Senate (115 <sup>th</sup> )	Enacted (116 <sup>th</sup> )	House (115 <sup>th</sup> )	Senate (115 <sup>th</sup> )
<b>Science</b>	<b>\$6,222</b>	<b>\$5,895</b>	<b>\$6,681</b>	<b>\$6,400</b>	<b>\$6,906</b>	<b>\$6,624</b>	<b>\$6,400</b>
Earth Science	1,921	1,784	1,900	1,931	1,931	1,921	n/s
Planetary Science	2,228	2,235	2,759	2,202	2,759	2,637	n/s
Astrophysics	850	1,185	1,029	1,243	1,192	1,375	n/s
James Webb Space Telescope	534	— <sup>a</sup>	305	305	305	—	n/s
Heliophysics	689	691	689	720	720	691	n/s
<b>Aeronautics</b>	<b>685</b>	<b>634</b>	<b>715</b>	<b>725</b>	<b>725</b>	<b>685</b>	<b>725</b>
<b>Space Tech. / Exploration Tech.</b>	<b>760</b>	<b>1,003</b>	<b>900</b>	<b>933</b>	<b>927</b>	<b>1,018</b>	<b>1,003</b>
<b>Exploration / Deep Sp. Exp. Sys.</b>	<b>4,790</b>	<b>4,559</b>	<b>5,084</b>	<b>5,339</b>	<b>5,051</b>	<b>4,929</b>	<b>5,339</b>
Exploration Systems Development	4,395	3,670	4,045	4,295	4,093	4,040	n/s
Orion	1,350	1,164	1,350	1,350	1,350	1,350	n/s
Space Launch System	2,150	2,078	2,150	2,150	2,150	2,150	n/s
Exploration Ground Systems	895	428	545	795	593	540	n/s
Exploration R&D	395	889	1,039	1,044	958	889	n/s
<b>Space Ops. / LEO and Spflt. Ops.</b>	<b>4,752</b>	<b>4,625</b>	<b>4,625</b>	<b>4,639</b>	<b>4,639</b>	<b>4,625</b>	<b>4,639</b>
International Space Station	n/s	1,462	n/s	n/s	n/s	1,462	n/s
Space Transportation	n/s	2,109	n/s	2,109	n/s	2,109	n/s
Space and Flight Support	n/s	904	n/s	n/s	n/s	904	n/s
Commercial LEO Development	—	150	150	40	40	150	n/s
<b>Education / STEM Engagement</b>	<b>100</b>	<b>0</b>	<b>90</b>	<b>110</b>	<b>110</b>	<b>108</b>	<b>100</b>
Space Grant	40	0	40	44	44	40	n/s
EPSCoR	18	0	18	21	21	18	n/s
MUREP	32	0	32	33	33	n/s	n/s
Other	10	0	0	12	12	n/s	n/s
<b>Safety, Security, &amp; Mission Svcs.</b>	<b>2,827</b>	<b>2,750</b>	<b>2,850</b>	<b>2,750</b>	<b>2,755</b>	<b>2,750</b>	<b>2,850</b>
<b>Construction and EC&amp;R</b>	<b>562</b>	<b>388</b>	<b>562</b>	<b>388</b>	<b>348</b>	<b>438</b>	<b>451</b>
<b>Inspector General</b>	<b>39</b>	<b>39</b>	<b>39</b>	<b>39</b>	<b>39</b>	<b>39</b>	<b>39</b>
<b>Total</b>	<b>20,736</b>	<b>19,892</b>	<b>21,546</b>	<b>21,323</b>	<b>21,500</b>	<b>21,215</b>	<b>21,546</b>

**Sources:** FY2018 enacted from P.L. 115-141 and explanatory statement, *Congressional Record*, March 22, 2018, pp. H2094-H2096. Request from FY2019 NASA congressional budget justification. House (115<sup>th</sup> Congress) from H.R. 5952 as reported and H.Rept. 115-704. Senate (115<sup>th</sup> Congress) from S. 3072 as reported and S.Rept. 115-275; H.R. 21 as passed by the House would have provided the same amounts. Enacted from P.L. 116-6 and

H.Rept. 116-9; H.R. 648 as passed by the House would have provided the same amounts. Authorizations from H.R. 5503 (115<sup>th</sup> Congress) as reported and S. 3799 (115<sup>th</sup> Congress) as introduced.

**Notes:** Some totals may not add because of rounding. R&D = Research and Development. LEO = Low Earth Orbit. STEM = Science, Technology, Engineering, and Mathematics. EPSCoR = Established Program to Stimulate Competitive Research. MUREP = Minority University Research and Education Program. EC&R = Environmental Compliance and Remediation. n/s = not specified. See text for name changes and variations in program content.

a. \$305 million included in Astrophysics.

**Table 3. NASA Appropriations, FY2020**  
(budget authority in \$ millions)

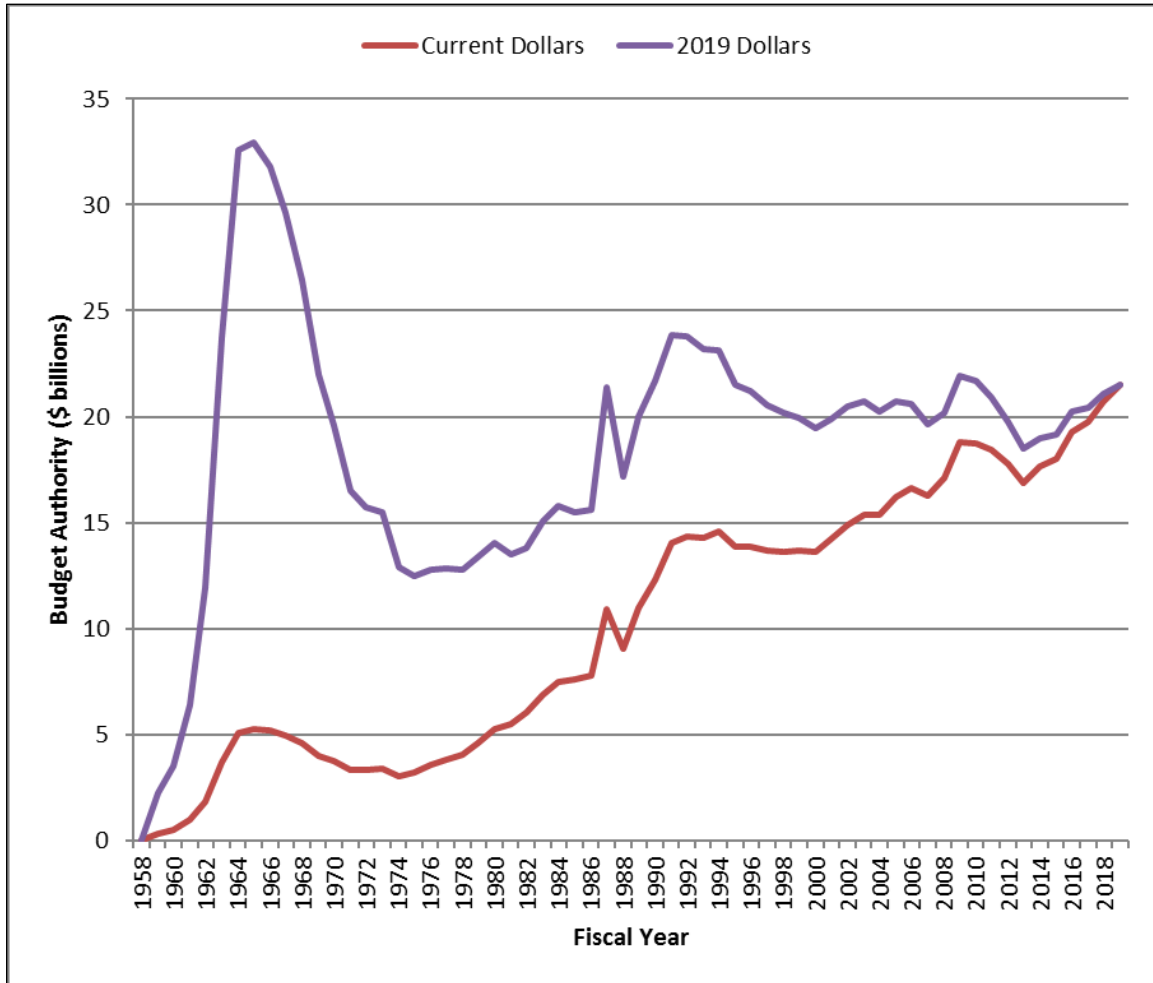
	FY2020 Appropriations					Enacted
	FY2019 Enacted	Original Request	Budget Amdmt.	House	Senate Cmte.	
<b>Science</b>	<b>\$6,906</b>	<b>\$6,304</b>	<b>+\$90</b>	<b>\$7,161</b>	<b>\$6,906</b>	
Earth Science	1,931	1,780		2,023	1,945	
Planetary Science	2,759	2,622		2,713	2,631	
Astrophysics	1,192	845		1,368	1,172	
James Webb Space Telescope	305	353		353	423	
Heliophysics	720	705		705	735	
<b>Aeronautics</b>	<b>725</b>	<b>667</b>		<b>700</b>	<b>784</b>	
<b>Space Tech. / Exploration Tech.</b>	<b>927</b>	<b>1,014</b>	<b>+132</b>	<b>1,292</b>	<b>1,076</b>	
<b>Exploration / Deep Sp. Exp. Sys.</b>	<b>5,051</b>	<b>5,022</b>	<b>+1,375</b>	<b>5,130</b>	<b>6,223</b>	
Exploration Systems Development	4,093	3,442		4,168	4,583	
<i>Orion</i>	1,350	1,266		1,425	1,407	
<i>Space Launch System</i>	2,150	1,775		2,150	2,586	
<i>Exploration Ground Systems</i>	593	400		593	590	
Exploration R&D	958	1,580		962	1,640	
<b>Space Ops. / LEO and Spft. Ops.</b>	<b>4,639</b>	<b>4,286</b>		<b>4,286</b>	<b>4,150</b>	
International Space Station	n/s	1,458		n/s	n/s	
Space Transportation	n/s	1,829		n/s	n/s	
Space and Flight Support	n/s	849		n/s	n/s	
Commercial LEO Development	40	150		n/s	15	
<b>STEM Engagement</b>	<b>110</b>	<b>0</b>		<b>124</b>	<b>112</b>	
Space Grant	44	0		49	47	
EPSCoR	21	0		25	22	
MUREP	33	0		37	33	
Other	12	0		13	10	
<b>Safety, Security, &amp; Mission Svcs.</b>	<b>2,755</b>	<b>3,085</b>		<b>3,085</b>	<b>2,935</b>	
<b>Construction and EC&amp;R</b>	<b>348</b>	<b>600</b>		<b>497</b>	<b>524</b>	
<b>Inspector General</b>	<b>39</b>	<b>42</b>		<b>42</b>	<b>40</b>	
<b>Total</b>	<b>21,500</b>	<b>21,019</b>	<b>+1,597</b>	<b>22,316</b>	<b>22,750</b>	

**Sources:** FY2019 enacted from P.L. 116-6 and H.Rept. 116-9. Original Request from FY2020 NASA congressional budget justification. Budget Amendment from Estimate #1, May 13, 2019, [https://www.whitehouse.gov/wp-content/uploads/2019/05/FY20\\_Budget\\_Amendment\\_5-13-19.pdf](https://www.whitehouse.gov/wp-content/uploads/2019/05/FY20_Budget_Amendment_5-13-19.pdf). House from

H.R. 3055 as passed by the House and H.Rept. 116-101. Senate Committee from S. 2584 as reported and S.Rept. 116-127. Enacted column will be updated when information becomes available.

**Notes:** Some totals may not add because of rounding. R&D = Research and Development. LEO = Low Earth Orbit. EPSCoR = Established Program to Stimulate Competitive Research. MUREP = Minority University Research and Education Program. EC&R = Environmental Compliance and Remediation. n/s = not specified. See text for name changes and variations in program content. The budget amendment does not provide a further breakdown of the additional requested amounts.

**Figure I. NASA Funding, FY1958-FY2019**



**Source:** Compiled by CRS. FY1958-FY2008 from National Aeronautics and Space Administration, *Aeronautics and Space Report of the President: Fiscal Year 2008 Activities*, <http://history.nasa.gov/presrep2008.pdf>, Table D-1A. FY2009-FY2012 from NASA congressional budget justifications, FY2011-FY2014. FY2013-FY2019 as in **Table I**. Current dollars deflated to FY2019 dollars using GDP (chained) price index from President’s budget for FY2019, Historical Table 10.1, <https://www.whitehouse.gov/wp-content/uploads/2018/02/hist10z1-fy2019.xlsx>.

**Note:** Transition quarter between FY1976 and FY1977 not shown.

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