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NASA Appropriations and Authorizations: A Fact Sheet

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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 FY2021. It will be updated as warranted to reflect congressional action on FY2021 appropriations and authorizations of appropriations.

Table 1 shows appropriations for NASA from FY2015 through FY2020. The data for FY2015 through FY2019 include supplemental appropriations, rescissions, transfers, and reprogramming. They are taken from NASA's congressional budget justifications for FY2017 through FY2021.¹ 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 FY2020 are as enacted by the Consolidated Appropriations Act, 2020 (P.L. 116-93). For amounts not specified in that act, see the explanatory statement in the *Congressional Record*, December 17, 2019.

Table 2 shows FY2019 appropriations as enacted; the Administration's original request for FY2020 and its additional request in the May 2019 budget amendment; FY2020 appropriations proposed in 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 as passed by the Senate in October 2019); FY2020 appropriations enacted in the Consolidated Appropriations Act, 2020 (P.L. 116-93); and authorizations of FY2020 appropriations proposed in the NASA Authorization Act of 2020 (H.R. 5666) and the NASA Authorization Act of 2019 (S. 2800).

Table 3 shows FY2020 appropriations as enacted and the Administration's request for FY2021. Additional information will be added when available. Authorizations for FY2021 are not included in H.R. 5666 or S. 2800.

Note that the Administration's budget requests since FY2019 have 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** may represent somewhat different content in different columns.

Figure 1 shows NASA's total annual budget authority from the agency's establishment in FY1958 to FY2020, in both current dollars and inflation-adjusted FY2020 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*.

¹ FY2016, FY2017, and FY2019 Education and STEM Engagement amounts are not shown in the FY2018, FY2019, and FY2021 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; the explanatory statement for the Consolidated Appropriations Act, 2017 (P.L. 115-31), *Congressional Record*, May 3, 2017, pp. H3374-H3375; and the explanatory statement for the Consolidated Appropriations Act, 2020 (P.L. 116-93), *Congressional Record*, December 17, 2019, pp. H10969-H10971.

Table I. NASA Appropriations, FY2015-FY2020
(budget authority in \$ millions)

	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020
Science	\$5,243	\$5,584	\$5,762	\$6,212	\$6,887	\$7,139^a
Earth Science	1,784	1,927	1,908	1,921	1,931	1,972
Planetary Science	1,447	1,628	1,828	2,218	2,747	2,713
Astrophysics	731	762	783	850	1,191	1,306
James Webb Space Telescope	645	620	569	534	305	423
Heliophysics	636	647	675	689	713	725
Aeronautics	642	634	656	685	725	784
Space Technology	600	686	687	760	927	1,100
Exploration	3,543	3,996	4,324	4,790	5,045	6,018
Exploration Systems Development	3,212	3,641	3,929	4,395	4,087	4,583
<i>Orion</i>	<i>1,190</i>	<i>1,270</i>	<i>1,330</i>	<i>1,350</i>	<i>1,350</i>	<i>1,407</i>
<i>Space Launch System</i>	<i>1,679</i>	<i>1,972</i>	<i>2,127</i>	<i>2,150</i>	<i>2,144</i>	<i>2,586</i>
<i>Exploration Ground Systems</i>	<i>343</i>	<i>399</i>	<i>472</i>	<i>895</i>	<i>593</i>	<i>590</i>
Exploration R&D	331	355	395	395	958	1,435
Space Operations	4,626	5,032	4,943	4,749	4,640	4,140
Space Shuttle	8	5	0	0	0	0
International Space Station	1,525	1,436	1,451	1,493	1,490	n/s
Space Transportation	2,254	2,668	2,589	2,346	2,110	n/s
Space and Flight Support	839	923	903	910	1,000	n/s
Commercial LEO Development	—	—	—	—	40	15
Education / STEM Engagement	119	115	100	100	110	120
Space Grant	40	40	40	40	44	48
EPSCoR	18	18	18	18	21	24
MUREP	32	32	32	32	33	36
Other	29	25	10	10	12	12
Safety, Security, & Mission Svcs.	2,755	2,772	2,769	2,827	2,755	2,913
Construction and EC&R	446	427	485^b	657^c	372	373
Inspector General	37	37	38	39	39	42
Total	18,010	19,285	19,762^b	20,817^c	21,500	22,629^a

Sources: FY2015-FY2019 from NASA FY2017-FY2021 congressional budget justifications. FY2020 from P.L. 116-93 and explanatory statement, *Congressional Record*, December 17, 2019, pp. H10969-H10971.

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. Not adjusted to reflect rescission of \$70 million from prior year unobligated balances (Section 521(c)).
- b. 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.
- c. 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, FY2020
(budget authority in \$ millions)

	FY2020 Appropriations						FY2020 Auths.	
	FY2019 Enacted	Original Request	Budget Amdt.	House	Senate	Enacted	House	Senate
Science	\$6,906	\$6,304	+\$90	\$7,161	\$6,906	\$7,139	\$7,139	\$6,906
Earth Science	1,931	1,780		2,023	1,945	1,972	1,972	n/s
Planetary Science	2,759	2,622		2,713	2,631	2,713	2,713	n/s
Astrophysics	1,192	845		1,368	1,172	1,306	1,306	n/s
James Webb Space Telescope	305	353		353	423	423	423	n/s
Heliophysics	720	705		705	735	725	725	n/s
Aeronautics	725	667		700	784	784	784	784
Space Tech. / Exploration Tech.	927	1,014	+132	1,292	1,076	1,100	1,100	1,076
Exploration / Deep Sp. Exp. Sys.	5,051	5,022	+1,375	5,130	6,223	6,018	6,018	6,223
Exploration Systems Development	4,093	3,442		4,168	4,583	4,583	4,583	n/s
<i>Orion</i>	<i>1,350</i>	<i>1,266</i>		<i>1,425</i>	<i>1,407</i>	<i>1,407</i>	<i>1,407</i>	<i>n/s</i>
<i>Space Launch System</i>	<i>2,150</i>	<i>1,775</i>		<i>2,150</i>	<i>2,586</i>	<i>2,586</i>	<i>2,586</i>	<i>n/s</i>
<i>Exploration Ground Systems</i>	<i>593</i>	<i>400</i>		<i>593</i>	<i>590</i>	<i>590</i>	<i>590</i>	<i>n/s</i>
Exploration R&D	958	1,580		962	1,640	1,435	1,435	n/s
Space Ops. / LEO and Spflt. Ops.	4,639	4,286		4,286	4,150	4,140	4,140	4,150
International Space Station	n/s	1,458		n/s	n/s	n/s	n/s	n/s
Space Transportation	n/s	1,829		n/s	n/s	n/s	n/s	n/s
Space and Flight Support	n/s	849		n/s	n/s	n/s	n/s	n/s
Commercial LEO Development	40	150		n/s	15	15	n/s	n/s
STEM Engagement	110	0		124	112	120	120	112
Space Grant	44	0		49	47	48	48	n/s
EPSCoR	21	0		25	22	24	24	n/s
MUREP	33	0		37	33	36	36	n/s
Other	12	0		13	10	12	12	n/s
Safety, Security, & Mission Svcs.	2,755	3,085		3,085	2,935	2,913	2,913	2,935
Construction and EC&R	348	600		497	524	373	373	524
Inspector General	39	42		42	40	42	42	40
Total	21,500	21,019	+1,597	22,316	22,750	22,629	22,629	22,750

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. House from H.R. 3055 as passed by the House (June 2019) and H.Rept. 116-101. Senate from H.R. 3055 as passed by the Senate (October 2019) and S.Rept. 116-127. Enacted from P.L. 116-93 and explanatory statement, *Congressional Record*, December 17, 2019, pp. H10969-H10971. House authorization from H.R. 5666 as introduced. Senate authorization from S. 2800 as introduced.

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.

Table 3. NASA Appropriations and Authorizations, FY2021
(budget authority in \$ millions)

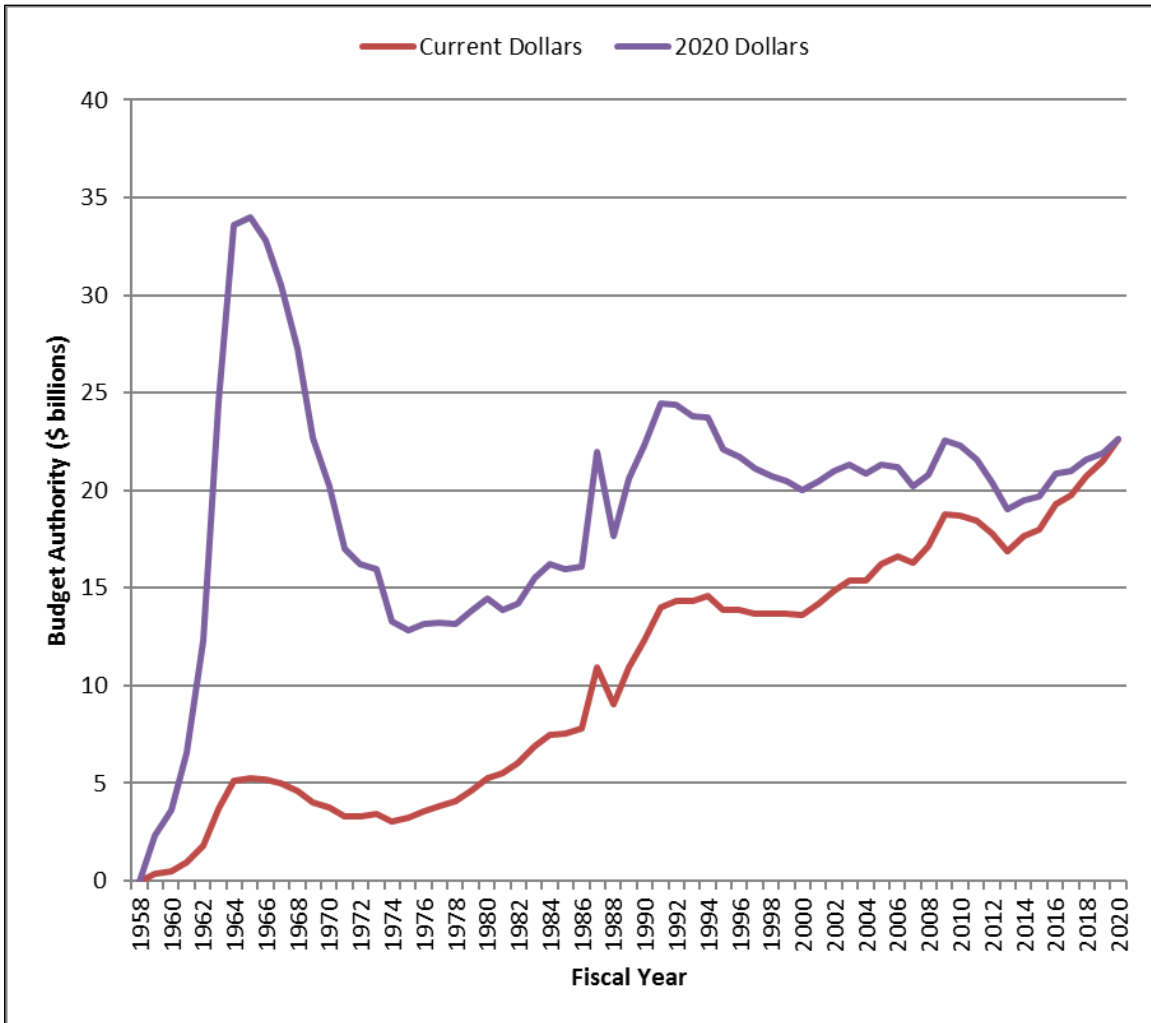
	FY2020 Enacted	FY2021 Appropriations			
		Request	House	Senate	Enacted
Science	\$7,139^a	\$6,307			
Earth Science	1,972	1,768			
Planetary Science	2,713	2,660			
Astrophysics	1,306	831			
James Webb Space Telescope	423	415			
Heliophysics	725	633			
Aeronautics	784	819			
Space Tech. / Exploration Tech.	1,100	1,578			
Exploration / Deep Sp. Exp. Sys.	6,018	8,762			
Exploration Systems Development	4,583	4,042			
<i>Orion</i>	<i>1,407</i>	<i>1,401</i>			
<i>Space Launch System</i>	<i>2,586</i>	<i>2,257</i>			
<i>Exploration Ground Systems</i>	<i>590</i>	<i>385</i>			
Exploration R&D	1,435	4,719			
Space Ops. / LEO and Spflt. Ops.	4,140	4,187			
International Space Station	n/s	1,401			
Space Transportation	n/s	1,878			
Space and Flight Support	n/s	759			
Commercial LEO Development	15	150			
STEM Engagement	120	0			
Space Grant	48	0			
EPSCoR	24	0			
MUREP	36	0			
Other	12	0			
Safety, Security, & Mission Svcs.	2,913	3,010			
Construction and EC&R	373	539			
Inspector General	42	44			
Total	22,629^a	25,246			

Sources: FY2020 enacted from P.L. 116-93 and explanatory statement, *Congressional Record*, December 17, 2019, pp. H10969-H10971. Request from FY2021 NASA congressional budget justification.

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.

a. Not adjusted to reflect rescission of \$70 million from prior year unobligated balances (Section 521(c)).

Figure I. NASA Funding, FY1958-FY2020



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-FY2014 from NASA congressional budget justifications, FY2011-FY2016. FY2015-FY2020 as in **Table I**. Current dollars deflated to FY2020 dollars using GDP (chained) price index from President’s budget for FY2021, Historical Table 10.1, <https://www.whitehouse.gov/omb/historical-tables/>.

Note: Transition quarter between FY1976 and FY1977 not shown.

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