

PEOPLE • PROCURE  
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FISCAL YEAR 2020

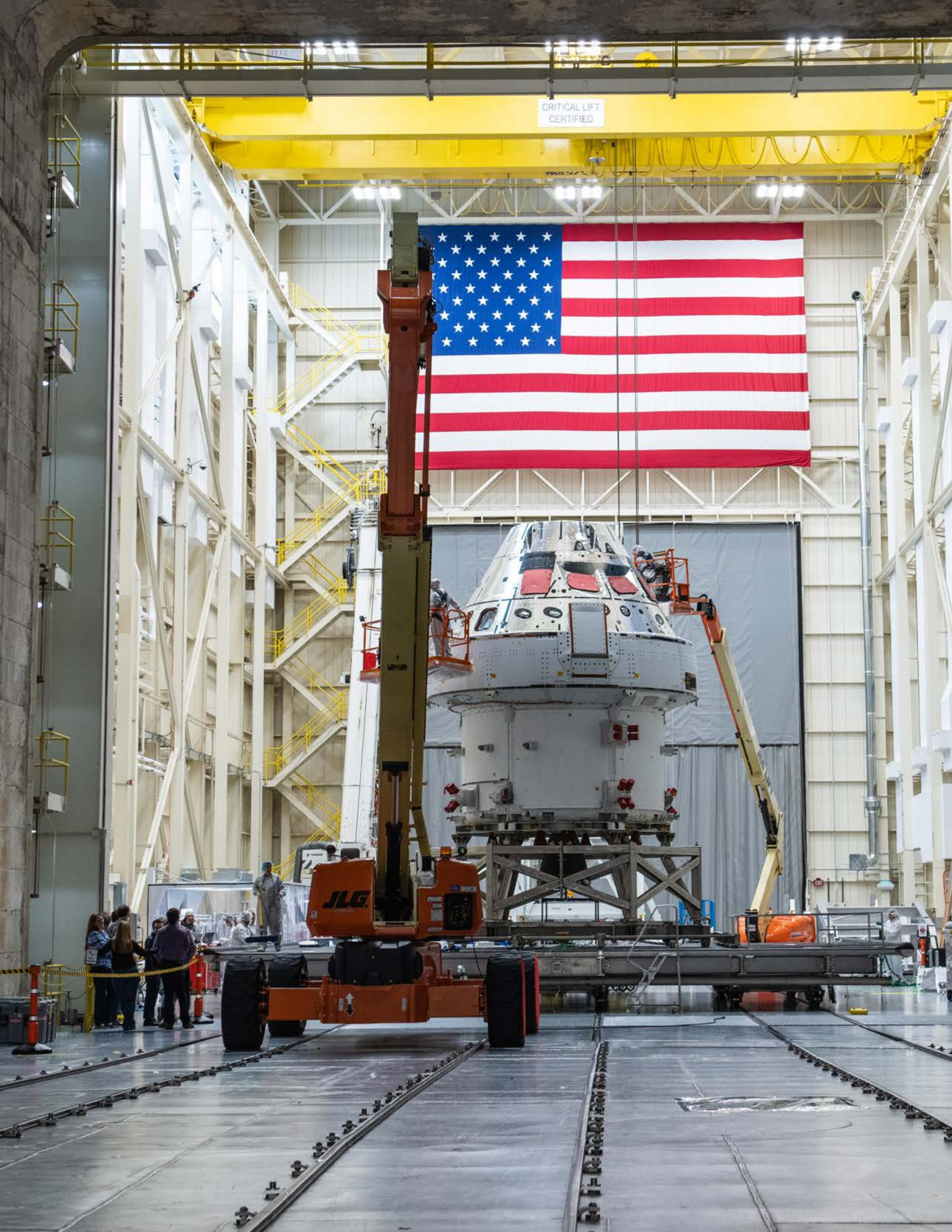
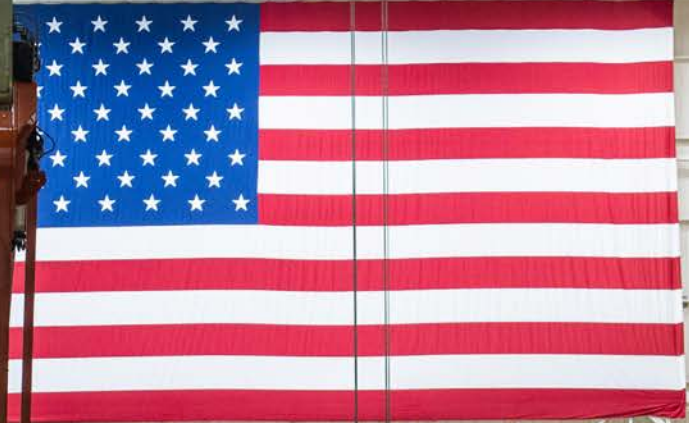
# ANNUAL PROCUREMENT REPORT



EXPLORE  
PROCUREMENT

The cornerstone of NASA's current and future missions

CRITICAL LIFT  
CERTIFIED



# WELCOME FROM THE ASSISTANT ADMINISTRATOR

Welcome to the National Aeronautics and Space Administration (NASA) Office of Procurement (OP) Fiscal Year (FY) 2020 Annual Procurement Report. This annual publication is a roadmap of the Agency’s acquisition and programmatic performance in relation to the Agency mission.

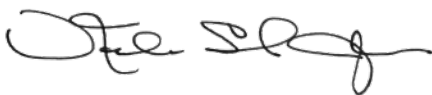
OP went through an unprecedented period of change in FY 2020, due in large part to undertaking and graduating from a strategic assessment of our organizational structure, internal processes, and procedures, as well as enduring the COVID-19 pandemic. NASA’s enterprise acquisition workforce was challenged to evolve, and in unison, we successfully exceeded milestones and reinforced our mission: *Acquisition Excellence in an Evolving Environment*.

I am very proud of all these achievements. Creativity and innovation were integral to enhancing our ability to work remotely and upgrading our procurement systems that supported \$19.7 billion in obligations and over 28 thousand contract actions in FY 2020.

I would like to express my gratitude to our stakeholders that contributed to our overall success—the Mission Directorates, Program Offices, businesses, and universities featured herein—for their unsurpassed commitment to working together to achieve another milestone in the Agency’s procurement spending.

I hope you will take great pride in this year’s accomplishments, and thank you for your interest in the NASA Office of Procurement.

Sincerely,

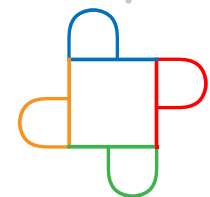


**Karla Smith Jackson**

Senior Procurement Executive,  
Deputy Chief Acquisition Officer, and  
Assistant Administrator, NASA Office of Procurement



**Karla Smith Jackson**



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# INTRODUCTION



This report presents summary data on all of NASA's procurement actions and detailed information on contracts and other procurements awarded by NASA during fiscal year (FY) 2020 using appropriated funds. All data was pulled from the Federal Procurement Data System (FPDS) with the exception of awards made through other Government agencies; that information was obtained from NASA's financial system.

"Procurement action," as used in this report, means a contractual action to obtain supplies, services, or construction that increases or decreases funds. A procurement action, thus, may be a new procurement or a modification such as a supplemental agreement, change order, or termination to an existing contract that changes the total amount of funds obligated. An obligation is a contractual commitment to pay for supplies or services that are specified in the contract. (See Glossary for more information.)

The Annual Procurement Report is available via the internet on the Procurement home page. The address is <http://www.hq.nasa.gov/office/procurement/> (under the "Procurement Reports and Guides" link). The report was prepared by the Office of Procurement, NASA Headquarters. Inquiries should be addressed in writing to:

**National Aeronautics and Space Administration**  
Office of Procurement  
Washington, DC 20546



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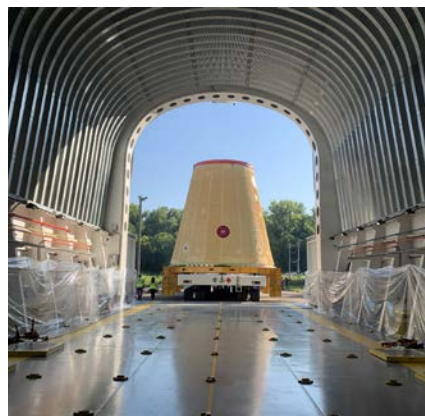
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# TOTAL PROCUREMENT

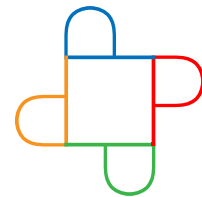
IN FISCAL YEAR 2020,

NASA's procurements totaled **\$19,679.2** million.

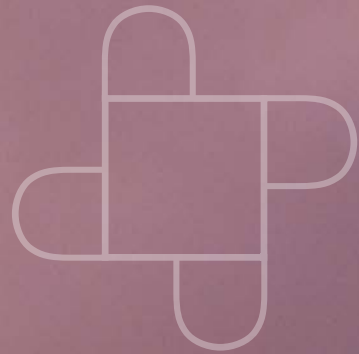
The number of procurement actions totaled **28,098**.

Trends in Procurement Obligations vs. Total NASA Obligations\*  
Fiscal Years 2015–20 (Millions of Dollars)

Fiscal Year	Total NASA Obligations	Procurement Obligations	
		Amount	% of Total Obligations
2020	\$25,270.9	\$19,679.2	78.0%
2019	\$23,970.8	\$19,514.4	81.4%
2018	\$23,374.8	\$19,196.7	82.1%
2017	\$22,678.2	\$18,502.5	81.6%
2016	\$22,527.0	\$18,687.9	83.0%
2015	\$21,070.5	\$17,191.5	81.6%

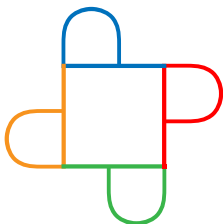


\*Total NASA obligations include salaries, benefits, and travel of NASA employees, as well as 83,381 purchase card transactions in the amount of \$98.2 million. Procurement obligations exclude Funded Space Act Agreements because they are handled outside of the Office of Procurement. They are not discussed in this report. Awards to other Government agencies are included in both totals above, but they are discussed only on page 27. They are not included in other charts and tables in this report.



# CATEGORY MANAGEMENT

**Category Management** is the business practice of buying common goods and services as an enterprise to eliminate redundancies, increase efficiency, and deliver more value and savings from the Government's acquisition programs. The Office of Management and Budget (OMB) sets annual, agency-specific goals for the Category Management key performance indicators (KPIs), which are based on the Government-wide KPI goals set by the President's Management Agenda.

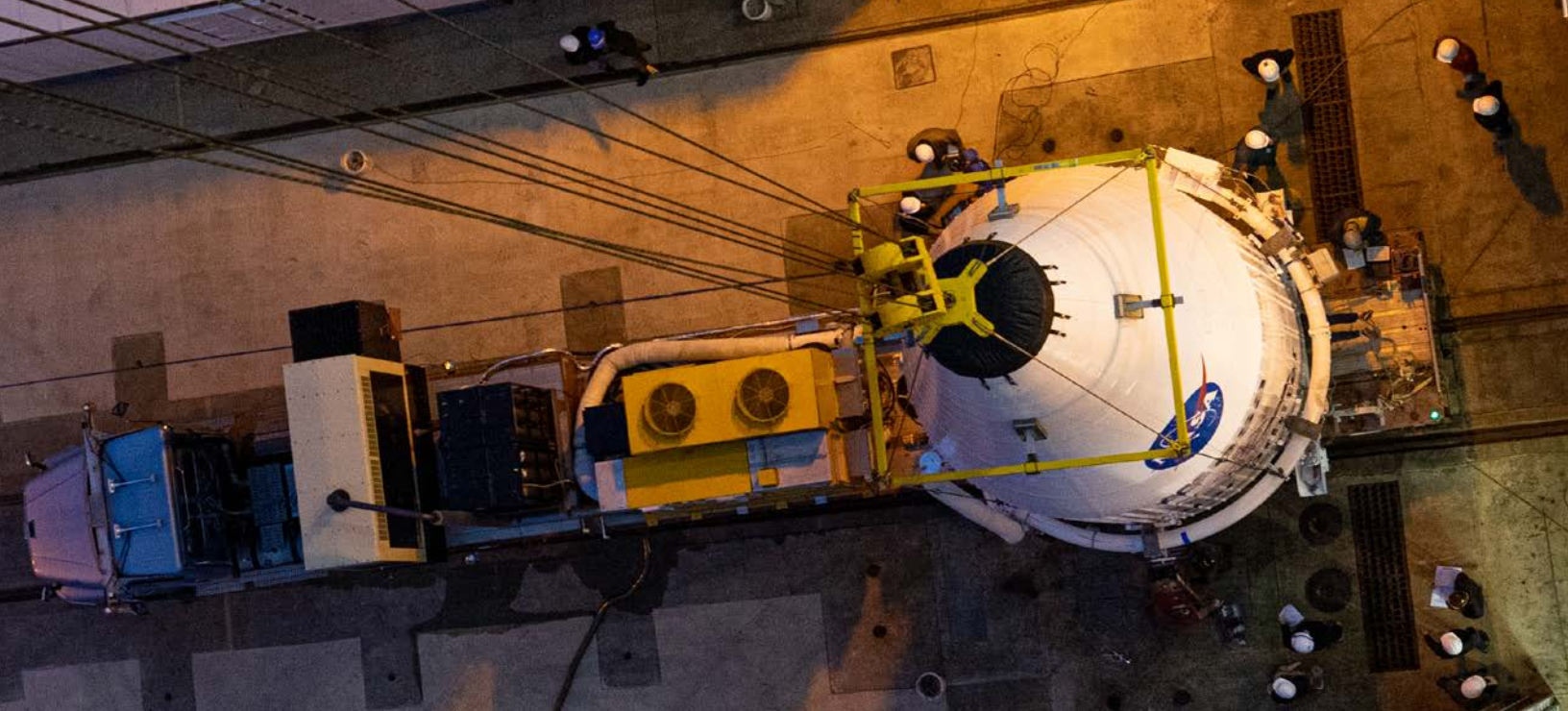


The primary KPIs are Spend Under Management (SUM) and Best-in-Class (BIC). SUM is the percentage of an agency's spending obligated on agency or Government-wide contracts. The BIC metric is a measure of an agency's spending obligated on BIC contracts. BIC refers to contracts available for use Government-wide that have been vetted by solution owners, agency users, and subject matter experts resulting in a designation as Best-in-Class by OMB. There are currently over 35 active BICs, including the NASA Solutions for Enterprise-Wide Procurement (SEWP) contract.

The use of Government-wide and BIC solutions saves agencies money and supports small business utilization, all while reducing duplicate contracts and streamlining the acquisition process—making it possible for agencies to focus more resources on high-priority mission work. The enterprise procurement strategies resulting from NASA OP's Mission Support Future Architecture Program transformation will enable NASA to continue to make positive strides in its Category Management performance.

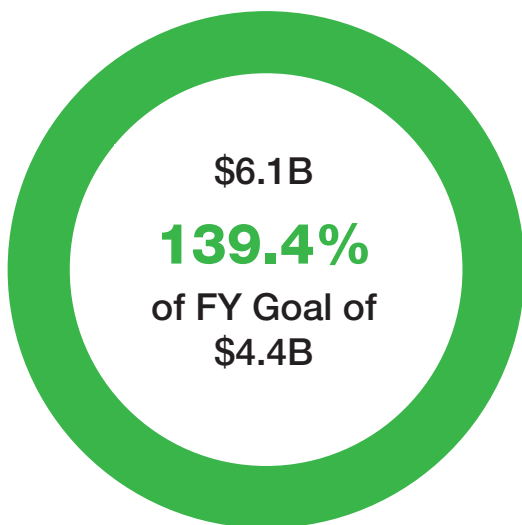
**Note to the reader:** All amounts and totals throughout this report are rounded.



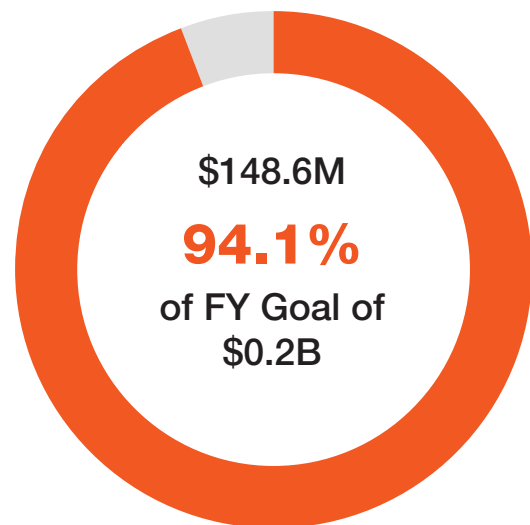


## FY20 Category Management Performance

### Spend Under Management



### BIC Obligation

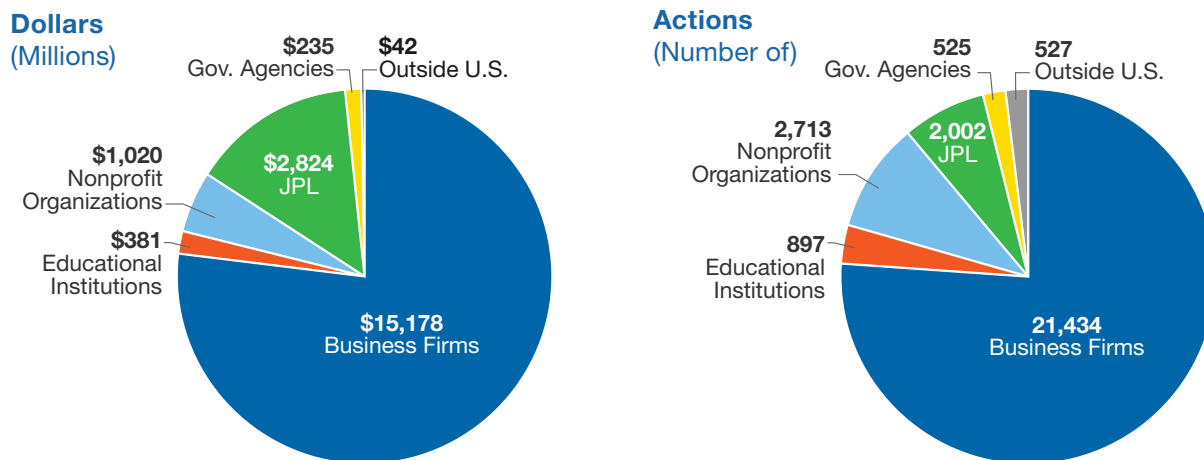


In FY 2020, NASA OP exceeded the goal set for SUM and achieved 94.1% of the BIC goal.

# AWARDS BY TYPE OF CONTRACTOR

## Awards by Type of Contractor for Fiscal Year 2020

The distribution of NASA's procurement dollars obligated and the number of actions is shown below.



Category	Value (Millions)	Percent of Total	Actions (Number of)	Percent of Total
Business Firms	\$15,177.6	77.1%	21,434	76%
Educational Institutions	\$380.7	1.9%	897	3%
Nonprofit Organizations	\$1,020.3	5.2%	2,713	10%
JPL	\$2,824.1	14.4%	2,002	7%
Gov. Agencies	\$234.5	1.2%	525	2%
Outside U.S.	\$42.0	0.2%	527	2%
<b>Total</b>	<b>\$19,679.2</b>	<b>100%</b>	<b>28,098</b>	<b>100%</b>



### Trends in Awards by Type of Contractor Fiscal Years 2015–20

PROCUREMENT DOLLARS (MILLIONS)

	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Business Firms	\$12,703	\$13,982	\$13,828	\$14,132	\$14,207	\$15,178
Educational	\$906	\$894	\$880	\$1,341	\$1,043	\$381
Nonprofit	\$878	\$968	\$925	\$1,102	\$807	\$1,020
JPL	\$1,847	\$2,133	\$2,353	\$2,260	\$3,023	\$2,824
Gov. Agencies	\$340	\$397	\$171	\$151	\$187	\$235
Outside U.S.	\$517	\$314	\$346	\$211	\$247	\$42
<b>Total</b>	<b>\$17,191</b>	<b>\$18,688</b>	<b>\$18,503</b>	<b>\$19,197</b>	<b>\$19,514</b>	<b>\$19,680</b>

PERCENT OF TOTAL DOLLARS

	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Business Firms	73.9%	74.8%	74.7%	73.6%	72.8%	77.1%
Educational	5.3%	4.8%	4.8%	7.0%	5.3%	1.9%
Nonprofit	5.1%	5.2%	5.0%	5.7%	4.1%	5.2%
JPL	10.7%	11.4%	12.7%	11.8%	15.5%	14.4%
Gov. Agencies	2.0%	2.1%	0.9%	0.8%	1.0%	1.2%
Outside U.S.	3.0%	1.7%	1.9%	1.1%	1.3%	0.2%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

Appendix I shows the distribution of NASA procurements by type of contractor for all fiscal years beginning with 1961.

# COMPETITION IN NASA AWARDS

## A. Competition in Contracting Act

The Competition in Contracting Act (P.L. 98-369), with limited exceptions, requires full and open competition within the Federal Government. Full and open competition means that all responsible sources are permitted to submit sealed bids or competitive proposals on a given procurement.

Contracting without providing for full and open competition is allowable under certain circumstances. Written justification is required to award a procurement on an other than full and open competition basis.

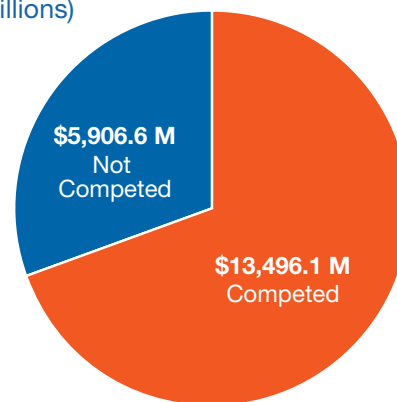
## B. Reporting of Competition

NASA developed a competition advocacy program to enhance and promote competition and to eliminate barriers to full and open competition. NASA has appointed an Agency competition advocate to oversee the program, and each NASA Center has a designated competition advocate. Federal agencies are required to prepare and submit an annual report to the agency Senior Procurement Executive and the Chief Acquisition Officer in accordance with agency procedures.

## C. Competition During Fiscal Year 2020

Appendix II shows competition in NASA awards to business firms for all fiscal years beginning with 1961.

Dollars  
(Millions)



Total Competition	Value (Millions)	Percent of Total
Competed	\$13,496.1	69.6%
Not Competed*	\$5,906.6	30.4%
<b>Total</b>	<b>\$19,402.7</b>	<b>100%</b>

\*Not Competed includes dollars for awards where only one responsible source is available, as well as for unusual or compelling urgency, industrial mobilization, international agreement, instances where authorized or required by statute, national security, public interest, awards not available for competition, and follow-on awards. These data are pulled from the standard Government-wide FPDS Competition Report and do not include grants, cooperative agreements, and other items NASA includes in FPDS that other agencies do not.



Shown below are trends in the extent of competition in awards to business firms for fiscal years 2015–20.

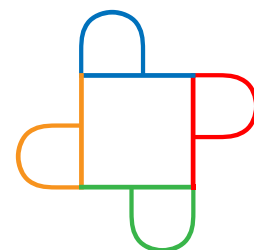
### Trends in Awards by Extent of Competition Fiscal Years 2015–20

NET VALUE OF AWARDS (MILLIONS)

Type of Action	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Competed	\$10,788	\$11,981	\$11,724	\$12,175	\$11,962	\$13,496.1
Not Competed	\$5,115	\$5,293	\$5,551	\$5,860	\$6,193	\$5,906.6
<b>Total</b>	<b>\$15,903</b>	<b>\$17,274</b>	<b>\$17,274</b>	<b>\$18,035</b>	<b>\$18,155</b>	<b>\$19,402.7</b>

PERCENT OF TOTAL

Type of Action	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Competed	67.8	69.4	69.4	67.9	65.9	69.6
Not Competed	32.2	30.6	30.6	32.1	34.1	30.4
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>



# AWARDS TO BUSINESS FIRMS

## Awards by Contract Type

The table below depicts the trends in awards to business firms by contract type. The figure on the following page categorizes fiscal year 2020 awards of new contracts and modifications to existing contracts. Since FY 2007, NASA has seen steady growth in the use of fixed-price awards and a decrease in award-fee awards wherever possible. Since that time, NASA has more than doubled the procurement dollars spent on fixed-price awards, from \$2.1 billion in FY 2007 to \$5 billion in FY 2020. The percentage of fixed-price actions has risen during the same time, from 65.1 percent to 75 percent.

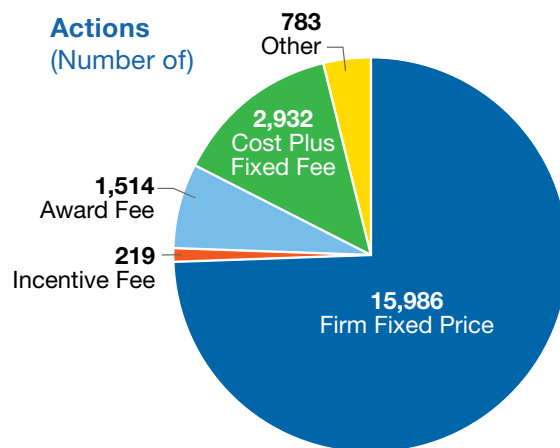
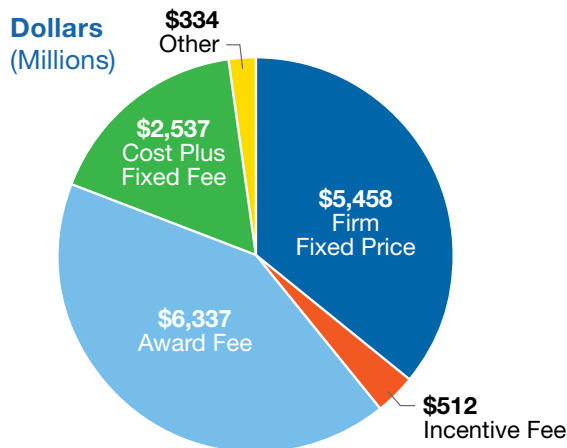
### Trends in Awards to Business Firms by Contract Type\* Fiscal Years 2015–20

#### PROCUREMENT DOLLARS (IN MILLIONS)

	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Firm Fixed Price	\$4,489	\$5,062	\$4,928	\$5,040	\$4,955	\$5,458
Incentive Fee	\$369	\$295	\$233	\$310	\$381	\$512
Award Fee	\$6,464	\$6,938	\$6,760	\$6,817	\$6,723	\$6,337
Cost Plus Fixed Fee	\$1,695	\$3,963	\$2,072	\$1,997	\$2,225	\$2,537
Other	\$183	\$142	\$141	\$141	\$149	\$334
<b>Total Business</b>	<b>\$13,201</b>	<b>\$16,400</b>	<b>\$14,134</b>	<b>\$14,305</b>	<b>\$14,433</b>	<b>\$15,178</b>

#### PERCENT OF TOTAL DOLLARS

	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Firm Fixed Price	34%	31%	35%	35%	34%	36%
Incentive Fee	3%	2%	1%	2%	3%	3%
Award Fee	49%	42%	48%	48%	47%	42%
Cost Plus Fixed Fee	13%	24%	15%	14%	15%	17%
Other	1%	1%	1%	1%	1%	2%
<b>Total Business</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>



Category	Amount (Millions)	Percent of Total	Actions (Number of)	Percent of Total
Firm Fixed Price	\$5,456.8	36.0%	15,977	74.5%
FP Level of Effort	\$0.7	0.0%	9	0.0%
<b>Subtotal FFP</b>	<b>\$5,457.5</b>	<b>36.0%</b>	<b>15,986</b>	<b>74.6%</b>
Fixed Price Incentive Fee	\$49.8	0.3%	12	0.1%
Cost Plus Incentive Fee	\$461.8	3.0%	207	1.0%
<b>Subtotal Incentive Fee</b>	<b>\$511.6</b>	<b>3.4%</b>	<b>219</b>	<b>1.0%</b>
Cost Plus Award Fee	\$6,338.5	41.8%	1,508	7.0%
Fixed Price Award Fee	-\$1.1	0.0%	6	0.0%
<b>Subtotal Award Fee</b>	<b>\$6,337.4</b>	<b>41.8%</b>	<b>1,514</b>	<b>7.1%</b>
<b>Cost Plus Fixed Fee</b>	<b>\$2,537.1</b>	<b>16.7%</b>	<b>2,932</b>	<b>13.7%</b>
<b>Other:</b>				
Combination	\$2.3	0.0%	5	0.0%
Cost No Fee	\$188.4	1.2%	50	0.2%
Cost Sharing	\$10.8	0.1%	30	0.1%
Fixed Price with Economic Price Adjustment	\$7.3	0.0%	149	0.7%
Labor Hours	\$0.6	0.0%	25	0.1%
Order Dependent	\$61.8	0.4%	158	0.7%
Time and Materials	\$53.6	0.4%	268	1.3%
Blank*	\$9.1	0.1%	98	0.5%
<b>Subtotal Other:</b>	<b>\$333.9</b>	<b>2.2%</b>	<b>783</b>	<b>3.7%</b>
<b>Total</b>	<b>\$14,432.6</b>	<b>100.0%</b>	<b>21,434</b>	<b>100.0%</b>

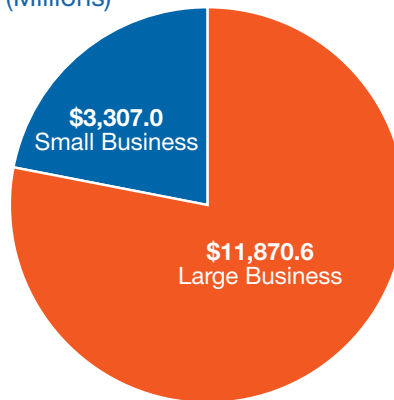
\* Contract type not required on BPA Calls, Grants, or Cooperative Agreements. Order Dependent applies to Indefinite Delivery Vehicles only. They allow pricing arrangements to be determined separately for each order. Combination and Other only apply to existing awards prior to 2010.

# SMALL BUSINESS PARTICIPATION

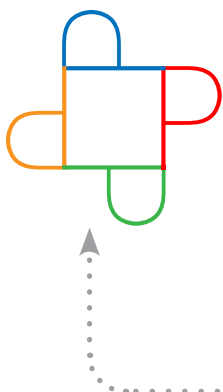
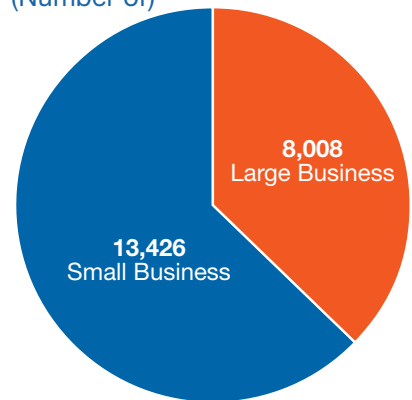
## Total Small Business

During fiscal year 2020, NASA awards to small business firms totaled \$3,307 million (below). The number of actions going to small business represents 62.6 percent of all business actions and 21.8 percent of all business dollars. In addition, the \$3,307 million includes \$722.3 million in new awards. New awards to small business firms represented 38.5 percent of NASA's total new contract awards of \$1,876 million to all business firms during FY 2020.

**Dollars**  
(Millions)



**Actions**  
(Number of)



Category	Amount (\$ Millions)	Percent of Total	Actions (Number of)	Percent of Total
Large Business	\$11,870.6	78.2%	8,008	37.4%
Small Business	\$3,307.0	21.8%	13,426	62.6%
<b>Total Business</b>	<b>\$15,177.6</b>	<b>100.0%</b>	<b>21,434</b>	<b>100.0%</b>





## Small Business Programs and Categories

**(1) Small Business Set-Asides.** Small business set-asides are defined as competitive awards that are limited only to small businesses. The small business set-aside program continues to exert a strong influence on the capability of small business firms to participate in the space program. In fiscal year 2020, these set-asides amounted to \$2.065.1 million.

**(2) Section 8(a) Business Development Program Awards.** NASA awards contracts under the SBA's 8(a) program to eligible firms (typically small disadvantaged businesses). Awards are made on either a competitive or a sole-source basis. In FY 2020, 8(a) awards totaled \$491 million.

**(3) Small Business Innovation Research (SBIR).** The Small Business Innovation Research (SBIR) program is a highly competitive program that encourages domestic small businesses to engage in Federal Research/Research and Development (R/R&D) that has the potential for commercialization. During FY 2020, NASA awarded 461 new SBIR contracts totaling \$209.8 million. Of this amount, 369 were Phase I awards totaling \$55.3 million and 139 were Phase II awards totaling \$116.7 million. Also in FY 2020, NASA funded ongoing Phase I and II contracts totaling \$6.7 million.

**(4) Small Business Technology Transfer (STTR).**

The Small Business Technology Transfer (STTR) program expands public-/private-sector partnerships, including joint venture opportunities for small businesses and nonprofit research institutions. STTR's most important role is to bridge the gap between performance of basic science and commercialization of resulting innovations. During FY 2020, NASA awarded 68 new STTR contracts totaling \$27.4 million. Of this amount, 38 were Phase I awards totaling \$4.6 million and 24 were Phase II awards totaling \$18 million. Also in FY 2020, NASA funded ongoing Phase I and II STTR contracts totaling \$2 million.

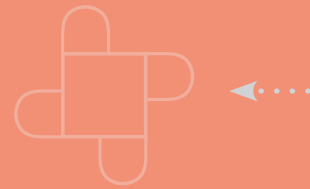
**(5) Women-Owned Small Business Participation.**

In accordance with Executive Order 12138, Women's Business Enterprise, NASA extends a particular effort to ensure that business firms owned and controlled by women have an equitable opportunity to participate in NASA's procurement program. In FY 2020, Women-Owned Small Business firms received prime contract awards totaling \$635.3 million.

**(6) HUBZone Small Business Awards.** NASA awarded \$116.4 million to HUBZone Small Business concerns in FY 2020.

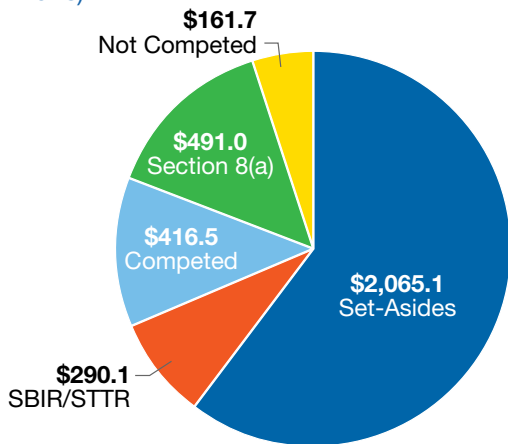
**(7) Veteran-Owned Small Business Awards.** In FY 2020, NASA awarded \$500.5 million to Veteran-Owned Small Businesses. Of this amount, \$307 million was awarded to Service-Disabled Veteran-Owned Small Businesses.

# EXTENT OF COMPETITION IN SMALL BUSINESS AWARDS



## Competition to Small Business Firms

Dollars  
(Millions)



Category	Amount (Millions)	Percent of Total
Set-Asides	\$2,065.1	60.3%
Section 8(a)	\$491.0	14.3%
Competed	\$416.5	12.2%
SBIR/STTR*	\$290.1	8.5%
Not Competed	\$161.7	4.7%
<b>Total:</b>	<b>\$3,424.5</b>	<b>100%</b>

\*Includes Phase III SBIR/STTR obligations (\$86.8 million).

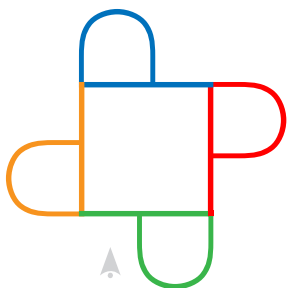


## Small Disadvantaged Business Participation

NASA's prime contract awards to small disadvantaged business firms during fiscal year 2020 totaled \$1,905.5 million. NASA is continuing its efforts to include disadvantaged business participation through direct awards and awards placed under the provisions of section 8(a) of the Small Business Act.

### Trends in Small and Small Disadvantaged Business Awards Fiscal Years 2015–20 (Millions of Dollars)

Type of Award	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Section 8(a)	\$551.4	\$620.9	\$621.5	\$684.9	\$698.0	\$491.0
Other Small Disadv. Business	\$678.0	\$649.3	\$415.3	\$818.7	\$685.9	\$1,414.5
<b>Total:</b>	<b>\$1,229.4</b>	<b>\$1,270.2</b>	<b>\$1,036.8</b>	<b>\$1,503.6</b>	<b>\$1,383.9</b>	<b>\$1,905.5</b>



## One Hundred Principal Contractors (Business Firms)

The 100 contractors that received the largest dollar value of NASA direct awards to business firms during FY 2020 are shown below. The awards to these contractors accounted for 77.1 percent of the direct awards to business firms during the year. The smallest aggregate award to any contractor in the top 100 was in excess of \$13.1 million.

### One Hundred Contractors (Business Firms) Listed According to Total Awards Received Fiscal Year 2020

Contractor	Total Dollars
1. BOEING	\$1,484,336,650.35
2. LOCKHEED MARTIN CORPORATION	\$1,397,590,742.56
3. JACOBS TECHNOLOGY, INC.	\$1,066,653,155.81
4. SPACE EXPLORATION TECHNOLOGIES CORP.	\$847,990,951.30
5. ORBITAL SCIENCES CORPORATION	\$769,910,264.87
6. AEROJET ROCKETDYNE, INC.	\$502,368,400.80
7. SCIENCE APPLICATIONS INTERNATIONAL CORPORATION	\$500,397,237.69
8. SIERRA NEVADA CORPORATION	\$344,728,532.39
9. ATK	\$336,616,929.88
10. SGT	\$296,487,197.46
11. ASRC	\$285,259,317.58
12. UNITED LAUNCH SERVICES, LLC	\$275,796,019.00
13. SCIENCE SYSTEMS AND APPLICATIONS, INC.	\$272,847,530.12
14. NORTHROP GRUMMAN	\$249,418,263.92
15. JOHNS HOPKINS UNIVERSITY	\$237,561,901.97
16. BLUE ORIGIN FEDERATION, LLC	\$230,164,399.00
17. DYNETICS, INC.	\$202,954,455.75
18. LEIDOS	\$198,147,541.85
19. SYNCOM SPACE SERVICES, LLC	\$197,354,993.56
20. WYLE LABORATORIES, INC.	\$183,407,195.13
21. KBRWYLE TECHNOLOGY SOLUTIONS, LLC	\$170,319,528.72
22. PERATON, INC.	\$156,048,831.99
23. SPACE SYSTEMS/LORAL, LLC	\$151,472,177.37
24. RAYTHEON COMPANY	\$144,183,569.03
25. ATA AEROSPACE, LLC	\$142,073,432.10
26. MILLENNIUM ENGINEERING AND INTEGRATION COMPANY	\$136,160,309.90
27. BALL AEROSPACE & TECHNOLOGIES CORP.	\$127,612,074.39
28. L3HARRIS	\$121,687,013.47
29. ASTROBOTIC TECHNOLOGY, INC.	\$114,715,820.03
30. ANALYTICAL MECHANICS ASSOCIATES, INC.	\$93,873,472.31
31. TRAX INTERNATIONAL CORPORATION	\$81,938,742.69
32. PAE-SGT PARTNERS, LLC	\$80,160,040.95
33. INUTEQ, LLC	\$79,004,856.63
34. AECOM MANAGEMENT SERVICES, INC.	\$78,924,202.94

Contractor	Total Dollars
35. TELEDYNE BROWN ENGINEERING, INC.	\$71,449,980.39
36. ALCYON TECHNICAL SERVICES (ATS) JV, LLC	\$65,959,143.08
37. GENERAL DYNAMICS	\$62,246,075.18
38. MANUFACTURING TECHNICAL SOLUTIONS, INCORPORATED	\$61,552,111.75
39. BARRIOS TECHNOLOGY, LTD.	\$61,407,947.57
40. HAMILTON SUNDSTRAND	\$61,035,317.90
41. MORI ASSOCIATES, INCORPORATED	\$57,114,345.77
42. ADNET SYSTEMS, INC.	\$55,980,520.03
43. PAE APPLIED TECHNOLOGIES, LLC	\$52,460,855.09
44. BOOZ ALLEN HAMILTON	\$50,690,752.19
45. BASTION TECHNOLOGIES, INC.	\$47,477,787.71
46. BECHTEL NATIONAL, INC.	\$46,625,812.67
47. RUSSIA SPACE AGENCY	\$46,155,537.72
48. PONTCHARTRAIN PARTNERS, LLC	\$44,536,041.40
49. AERIE AEROSPACE, LLC	\$43,226,526.00
50. AI SOLUTIONS, INC.	\$42,813,387.62
51. HX5, LLC	\$42,479,601.12
52. YULISTA TACTICAL SERVICES, LLC	\$41,256,409.44
53. CSRA, LLC	\$40,128,803.85
54. AXIOM SPACE, INC.	\$38,998,846.00
55. BUSINESS INTEGRA TECHNOLOGY SOLUTIONS, INC.	\$38,927,637.94
56. ALL POINTS LOGISTICS, LLC	\$36,994,164.54
57. HX5 SIERRA, LLC	\$36,983,509.51
58. COLSA CORPORATION	\$34,745,673.05
59. AUSTIN BUILDING AND DESIGN, INC.	\$33,735,602.01
60. TRIDENT VANTAGE SYSTEMS, LLC	\$33,604,739.62
61. VENESCO & SAITECH JOINT VENTURE, LLC	\$32,854,616.02
62. ENGLITY CORPORATION	\$32,792,961.92
63. AIR LIQUIDE LARGE INDUSTRIES U.S. LP	\$32,229,630.72
64. CHENEGA INFINITY, LLC	\$32,109,334.14
65. INTUITIVE MACHINES, LLC	\$31,933,475.55
66. CACI	\$31,458,941.48
67. HONEYBEE ROBOTICS, LTD.	\$30,086,993.90
68. NEW HORIZONS AERONAUTICS, LLC	\$29,211,710.87
69. AIR PRODUCTS AND CHEMICALS, INC.	\$29,060,308.36
70. MADE IN SPACE, INC.	\$29,032,195.65
71. PEERLESS TECHNOLOGIES CORPORATION	\$28,771,123.65
72. ZIN TECHNOLOGIES, INC.	\$28,153,481.43
73. OPR, LLC	\$28,136,376.58
74. MASTEN SPACE SYSTEMS, INC.	\$27,184,272.56
75. LJT & ASSOCIATES	\$24,979,596.97
76. PTSI MANAGED SERVICES, INC.	\$24,661,202.00
77. GENERAL ATOMICS	\$22,971,441.18
78. AECOM TECHNICAL SERVICES, INC.	\$21,743,278.62

Contractor	Total Dollars
79. LOGICAL INNOVATIONS, INC.	\$21,296,475.24
80. AKIMA SUPPORT OPERATIONS, LLC	\$21,190,760.53
81. AMERICAN-PARAGON PROTECTIVE SERVICES, LLC	\$21,127,353.16
82. GENERAL ELECTRIC COMPANY	\$20,194,414.39
83. EUROPEAN SPACE RESEARCH AND TECHNOLOGY CENTRE	\$20,150,297.53
84. WOLF CREEK FEDERAL SERVICES, INC.	\$19,967,341.61
85. TECHTRANS INTERNATIONAL, INCORPORATED	\$19,073,687.27
86. ALUTIIQ FUSION JOINT VENTURE	\$18,899,983.00
87. METIS FLIGHT RESEARCH ASSOCIATES, LLC	\$18,181,141.34
88. VICTORY SOLUTIONS, INC.	\$16,726,182.03
89. HEALTHEON, INC.	\$16,627,811.49
90. ARES TECHNICAL SERVICES CORPORATION	\$16,550,591.26
91. ADVON CORPORATION	\$16,517,016.76
92. SCIENCE AND TECHNOLOGY CORPORATION	\$15,197,788.33
93. ALUTIIQ ADVANCED SECURITY SOLUTIONS, LLC	\$14,898,568.73
94. HONEYWELL INTERNATIONAL, INC.	\$14,782,483.37
95. THUNDERCAT TECHNOLOGY, LLC	\$14,630,812.71
96. TETRA TECH, INC.	\$13,863,426.89
97. APACHE-LOGICAL JV	\$13,654,608.24
98. PRAETORIAN STANDARD, INC.	\$13,548,768.77
99. L&M TECHNOLOGIES, INC.	\$13,329,001.47
100. CORNELL TECHNICAL SERVICES, LLC	\$13,161,949.26

# CONTRACT FOR OPERATION OF THE JET PROPULSION LABORATORY

The Jet Propulsion Laboratory (JPL) is a federally funded research and development center operated for NASA by the California Institute of Technology. The Laboratory implements programs in planetary exploration, Earth science, space-based astronomy, and technology development while applying its capabilities to technical and scientific problems of national significance. The primary emphasis of the Laboratory's effort is to conduct robotic exploration of the solar system.

Total JPL awards during fiscal year 2020 amounted to \$3,082.3 million. Of this amount, JPL awarded \$1,162.6 million as subcontracts with business firms.

# AWARDS TO EDUCATIONAL AND OTHER NONPROFIT INSTITUTIONS

## Distribution by Type of Institution and Award

During FY 2020, NASA awarded \$1,400.3 million to educational and other nonprofit institutions. Of this amount, \$380 million was awarded to educational institutions and \$1,020.3 million to other nonprofit organizations.

### Awards to Educational Institutions and Nonprofit Organizations

Type of Award	Total (Millions)	Educational Institutions (Millions)	Nonprofit Organizations (Millions)
BPA Call	\$5.0	\$0.03	\$4.9
Cooperative Agreement	\$439.7	\$129.1	\$310.6
Definitive Contract	\$747.4	\$218.7	\$528.8
Delivery Order	\$127.0	\$2.9	\$124.1
IDC	\$70.5	\$27.8	\$42.6
Purchase Order	\$11.5	\$2.2	\$9.3
<b>Total:</b>	<b>\$1,401.0</b>	<b>\$360.7</b>	<b>\$1,020.3</b>

## One Hundred Principal Educational and Nonprofit Institutions

The 100 educational and nonprofit institutions that received the largest dollar value of NASA awards during fiscal year 2020 are shown below.\*

### One Hundred Educational and Nonprofit Institutions Listed According to Total Awards Received Fiscal Year 2020

Institution	Total Dollars
1. ASSOCIATION OF UNIVERSITIES FOR RESEARCH IN ASTRONOMY, INC.	\$146,267,051.00
2. UNIVERSITIES SPACE RESEARCH ASSOCIATION	\$140,459,333.75
3. SOUTHWEST RESEARCH INSTITUTE	\$95,195,253.63
4. REGENTS OF THE UNIVERSITY OF COLORADO	\$76,452,684.32
5. ASSOC. UNIV. RESEARCH ASTRONOMY	\$67,043,636.00
6. THE AEROSPACE CORPORATION	\$65,007,315.03
7. SMITHSONIAN INSTITUTION	\$62,207,441.10
8. UNIVERSITY OF OKLAHOMA	\$55,072,935.03
9. UNIVERSITY OF MARYLAND	\$46,141,029.01
10. UNIVERSITY OF ARIZONA	\$34,252,434.55
11. UNIVERSITY OF IOWA	\$26,789,712.97

\*Excludes JPL.

Institution	Total Dollars
12. NATIONAL INSTITUTE OF AEROSPACE ASSOCIATES	\$22,247,369.08
13. UNIVERSITY OF ALABAMA IN HUNTSVILLE	\$20,755,716.53
14. REGENTS OF THE UNIVERSITY OF CALIFORNIA	\$20,398,064.01
15. SAN JOSE STATE UNIVERSITY RESEARCH FOUNDATION	\$19,019,310.92
16. CENTER FOR THE ADVANCEMENT OF SCIENCE IN SPACE, INC.	\$15,000,000.00
17. UTAH STATE UNIVERSITY RESEARCH FOUNDATION	\$14,755,192.17
18. BAYLOR COLLEGE OF MEDICINE	\$14,341,877.00
19. ARIZONA STATE UNIVERSITY	\$14,221,071.08
20. REGENTS OF THE UNIVERSITY OF MICHIGAN	\$14,142,396.87
21. BAY AREA ENVIRONMENTAL RESEARCH INSTITUTE, INC.	\$12,102,035.73
22. UNIVERSITY OF MARYLAND BALTIMORE COUNTY	\$11,337,440.35
23. NATIONAL ACADEMY OF SCIENCES	\$11,297,414.13
24. UNIVERSITY OF ALASKA FAIRBANKS	\$11,142,141.40
25. TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK	\$10,782,871.99
26. OKLAHOMA STATE UNIVERSITY RESEARCH FOUNDATION, INC.	\$9,854,761.38
27. JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY, LLC	\$9,633,587.14
28. JOHNS HOPKINS UNIVERSITY	\$9,587,876.00
29. SETI INSTITUTE	\$9,486,038.28
30. UNIVERSITY OF ALABAMA AT BIRMINGHAM	\$8,535,835.99
31. UNIVERSITY OF HAWAII SYSTEMS	\$7,508,848.07
32. WEST VIRGINIA UNIVERSITY RESEARCH CORPORATION	\$7,447,338.85
33. MASSACHUSETTS INSTITUTE OF TECHNOLOGY	\$7,171,559.05
34. CATHOLIC UNIVERSITY OF AMERICA)	\$7,028,362.04
35. TRUSTEES OF PRINCETON UNIVERSITY, THE	\$6,842,426.63
36. UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH	\$6,798,997.13
37. MELWOOD HORTICULTURAL TRAINING CENTER, INC.	\$6,780,172.36
38. SOUTHWEST RESEARCH INSTITUTE	\$6,628,290.00
39. UNIVERSITY OF DELAWARE	\$6,179,787.00
40. BREVARD ACHIEVEMENT CENTER, INC.	\$6,176,422.44
41. LELAND STANFORD JUNIOR UNIVERSITY	\$5,589,492.40
42. ARIZONA BOARD OF REGENTS, UNIVERSITY OF ARIZONA	\$5,500,000.00
43. UNIVERSITY OF CALIFORNIA, LOS ANGELES	\$5,419,697.00
44. BAY AREA ENVIRONMENTAL RESEARCH INSTITUTE	\$5,397,870.92
45. UNIVERSITY OF CALIFORNIA, BERKELEY	\$5,283,533.47
46. UNIVERSITY OF WASHINGTON	\$5,280,061.04
47. PLANETARY SCIENCE INSTITUTE	\$4,871,814.09
48. CHARLES STARK DRAPER LABORATORY, INC.	\$4,819,746.29
49. LOGISTICS MANAGEMENT INSTITUTE	\$4,744,142.68
50. AUBURN UNIVERSITY	\$4,662,119.75
51. CALIFORNIA ASSOCIATION FOR RESEARCH IN ASTRONOMY	\$4,296,000.00
52. OKLAHOMA STATE UNIVERSITY	\$4,286,004.00
53. ARIZONA STATE UNIVERSITY	\$4,248,476.00
54. STANFORD UNIVERSITY	\$4,096,100.00
55. NORTH CAROLINA AGRICULTURAL AND TECHNICAL STATE UNIVERSITY	\$4,023,215.00



Institution	Total Dollars
56. UNIVERSITY OF TEXAS AT AUSTIN	\$3,898,242.89
57. UNIVERSITY OF WISCONSIN SYSTEM	\$3,871,248.00
58. A & N ELECTRIC COOPERATIVE	\$3,728,771.52
59. WASHINGTON UNIVERSITY	\$3,698,585.04
60. TEXAS STATE UNIVERSITY	\$3,440,938.60
61. MONTANA STATE UNIVERSITY, INC	\$3,429,827.00
62. UNIVERSITY OF SOUTH CAROLINA	\$3,377,965.00
63. TEXAS TECH UNIVERSITY SYSTEM	\$3,198,103.00
64. UNIVERSITY OF ALASKA FAIRBANKS	\$3,081,637.96
65. UNIVERSITY OF PUERTO RICO	\$2,994,970.00
66. GEORGIA TECH RESEARCH CORPORATION	\$2,975,055.10
67. UNIVERSITY OF COLORADO	\$2,849,340.33
68. PENNSYLVANIA STATE UNIVERSITY	\$2,810,736.74
69. UNIVERSITY SYSTEM OF NEW HAMPSHIRE	\$2,748,221.97
70. JOHNS HOPKINS UNIVERSITY	\$2,742,852.77
71. NEW MEXICO STATE UNIVERSITY	\$2,656,078.26
72. HAMPTON UNIVERSITY	\$2,629,821.02
73. SRI INTERNATIONAL	\$2,399,519.34
74. PENNSYLVANIA STATE UNIVERSITY	\$2,268,550.00
75. COLLEGE OF CHARLESTON	\$2,159,888.00
76. OPEN SOURCE ROBOTICS FOUNDATION, INC.	\$2,134,771.00
77. RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY	\$2,037,957.35
78. FOR INSPIRATION AND RECOGNITION OF SCIENCE AND TECHNOLOGY (FIRST)	\$2,009,560.52
79. ANTHONY WAYNE REHABILITATION CENTER FOR HANDICAPPED AND BLIND, INC.	\$1,952,167.47
80. WICHITA STATE UNIVERSITY	\$1,948,419.85
81. UNIVERSITY OF WYOMING	\$1,903,427.89
82. BLUE MARBLE SPACE	\$1,883,210.78
83. UNIVERSITY OF ILLINOIS	\$1,861,856.99
84. UNIVERSITY OF VERMONT AND STATE AGRICULTURAL COLLEGE	\$1,849,887.00
85. UNIVERSITY OF COLORADO	\$1,835,300.00
86. IOWA STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY	\$1,759,999.00
87. NEVADA SYSTEM OF HIGHER EDUCATION	\$1,752,239.91
88. POTOMAC INSTITUTE FOR POLICY STUDIES	\$1,736,711.32
89. REGENTS OF THE UNIVERSITY OF IDAHO	\$1,735,976.80
90. SRC, INC.	\$1,726,044.00
91. UNIVERSITY OF ALABAMA IN HUNTSVILLE	\$1,717,644.00
92. SOUTHERN RESEARCH INSTITUTE	\$1,639,994.19
93. SPACE SCIENCE INSTITUTE	\$1,625,341.00
94. REGENTS OF THE UNIVERSITY OF MINNESOTA	\$1,623,330.98
95. UNIVERSITY OF CALIFORNIA, SANTA CRUZ	\$1,608,501.64
96. UNIVERSITY OF NORTH DAKOTA	\$1,599,196.25
97. OREGON STATE UNIVERSITY	\$1,507,483.00
98. LELAND STANFORD JUNIOR UNIVERSITY	\$1,504,292.00
99. SOUTHWEST RESEARCH INSTITUTE	\$1,500,000.00
100. TRUSTEES OF BOSTON UNIVERSITY	\$1,493,232.00

# AWARDS BY TYPE OF EFFORT

During fiscal year 2020, \$19,403 million was awarded in categories of research and development, services, and supplies and equipment. A breakout of these awards by category is shown below. Not included are purchases less than the micropurchase threshold.

Category	Obligations in Dollars	Number of Actions
<b>Total</b>	<b>\$19,402,618,489.47</b>	<b>27,049</b>
<b>R&amp;D</b>		
Aeronautics and Space Technology	\$2,385,868,224.90	2,906
Commercial Programs	\$3,516,446.00	13
Other R&D	\$1,552,985,673.42	2,035
Other Space R&D	\$126,433,221.22	120
Space Flight	\$2,285,941,856.59	278
Space Operations	\$234,033,925.74	137
Space Science and Applications	\$3,994,383,731.77	4,185
Space Station	\$430,659,118.63	391
<b>Services</b>		
Architect and Engineering Services	\$130,015,054.56	570
Construction of Structures and Facilities	\$194,162,750.28	761
Education and Training Services	\$24,563,174.13	330
Environmental Systems	\$23,639,307.54	180
Excess Surplus Salvage Demolition	\$1,413,400.28	5
Information Technology and Telecommunications	\$1,063,945,663.55	2,448
Installation of Equipment	\$2,046,275.37	40
Lease or Rental of Equipment	\$2,342,001.50	78
Lease/Rental of Facilities	\$1,826,798.41	20
Maint., Repair and Rebuilding of Equipment	\$78,837,120.11	452
Maint., Repair or Alteration Real Property	\$216,592,818.62	734
Medicare Services	\$9,028,682.50	75
Modification of Equipment	\$7,481,814.57	51
Natural Resource Conservation Services	—	0
Operation of Structures/Facilities	\$361,508,844.34	392
Photography, Mapping, Printing, and Publishing	\$1,694,285.47	66
Professional, Administrative, and Management Support	\$2,478,667,015.85	4,173
Purchase of Facilities	\$23,400.00	1
Quality Control, Inspections, and Testing	\$24,912,816.98	207
Social Services	\$39,793.38	3

Category	Obligations in Dollars	Number of Actions
Special Studies and Analyses—Not R&D	\$102,794,329.58	268
Technical Representative Services	\$299,069.09	10
Transportation, Travel, and Relocation Services	\$1,802,155,797.69	272
Utilities and Housekeeping	\$302,736,198.08	839
<b>Products/Supplies</b>		
Information Technology Equipment, Software, Supplies, and Support Equipment	\$51,314,369.70	1,522
Agricultural Machinery and Equipment	—	0
Agricultural Supplies	—	0
Aircraft and Airframe Structural Components	\$396,267,047.03	127
Aircraft Components and Accessories	\$188,222,509.73	520
Aircraft Launching, Landing, and Handling	\$1,561,349.45	18
Alarm Signal and Security Detection	\$157,906.89	7
Ammunition and Explosives	\$694,885.60	21
Bearings	—	0
Books, Maps, and Other Publications	\$255,838.05	14
Brushes, Paints, and Sealers	\$18,968.28	1
Chemicals and Chemical Products	\$34,101,901.24	89
Cleaning Equipment and Supplies	—	0
Clothing, Individual Equipment	\$367,115.78	2
Communication, Detection, and Coherent Radiation Equipment	\$32,692,951.68	532
Construction and Building Materials	\$126,426.93	3
Construction, Mining, and Excavating	\$275,890.00	7
Containers, Packaging, and Packing Supplies	\$3,294.98	2
Electric Wire and Power Distribution Equipment	\$5,659,853.51	31
Electrical and Electronic Equipment Components	\$10,063,242.59	150
Engine Accessories	-\$13,522.00	5
Engines, Turbines, and Components	\$53,072,545.65	29
Fiber-Optic Materials	\$235,404.97	12
Fire Control Equipment	\$274,665.83	13
Firefighting, Rescue, and Safety Equipment and Environmental Protection Equipment and Materials	\$1,401,420.90	10
Food Preparation and Serving Equipment	\$1,439.55	3
Fuels, Lubricants, Oils, and Waxes	\$49,111,816.06	324
Furnace, Steam Plant and Drying Equip., and Nuclear Reactors	\$714,500.00	1
Furniture	\$1,024,749.12	31
Ground Effect Vehicles, Motor Vehicles, Trailers, and Cycles	\$356,254.42	8
Guided Missiles	—	0
Hand Tools	\$55,121.74	4
Hardware and Abrasives	\$2,681,292.52	29
Household and Commercial Furnishings and Appliances	\$993.00	3
Instruments and Laboratory Equipment	\$192,409,854.41	832
Lighting Fixtures and Lamps	\$128,533.03	4

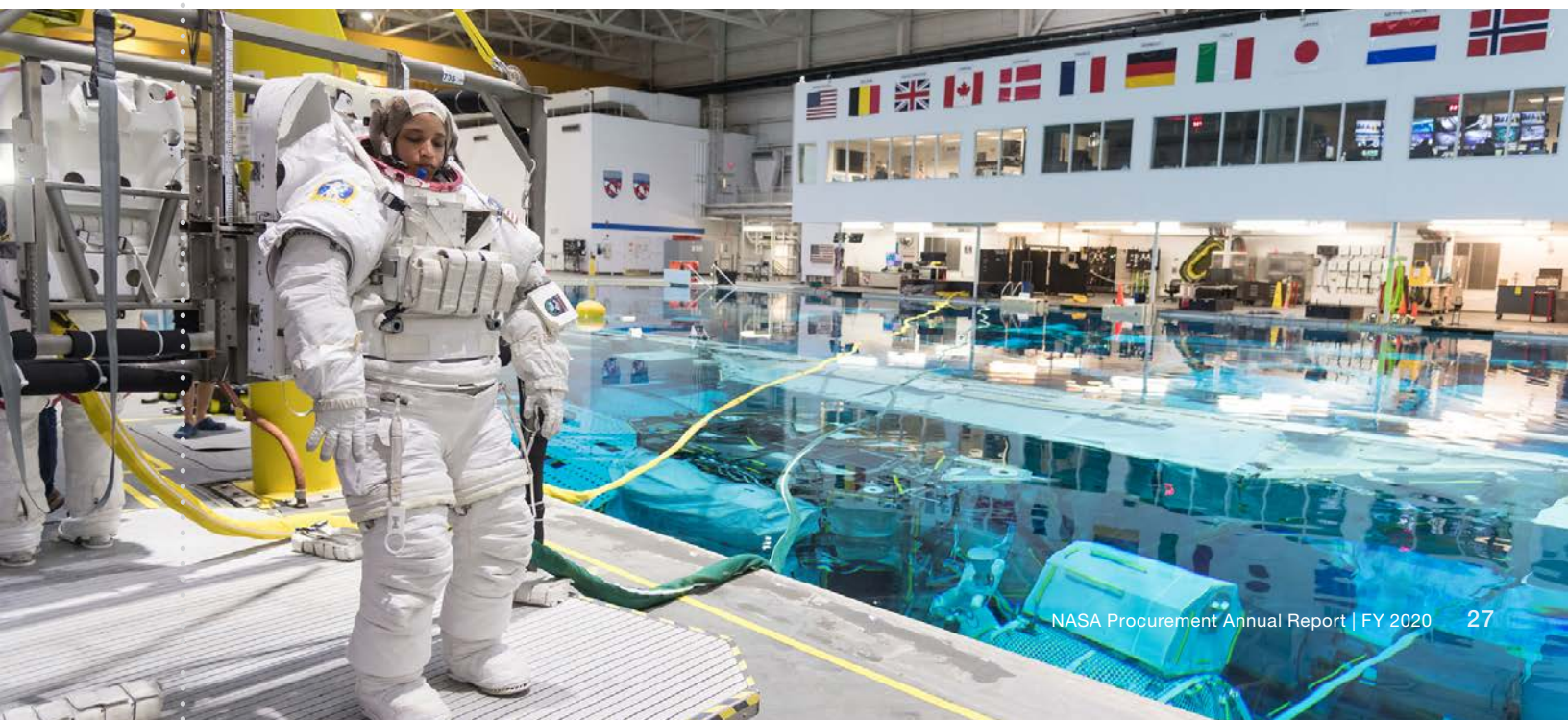
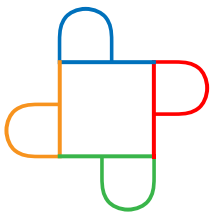
Category	Obligations in Dollars	Number of Actions
Live Animals	—	0
Lumber, Millwork, Plywood, and Veneer	—	0
Maintenance and Repair Shop Equipment	\$559,861.36	15
Materials Handling Equipment	\$543,435.00	10
Measuring Tools	\$94,933.18	8
Mechanical Power Transmission Equipment	\$68,601.28	3
Medical, Dental, and Veterinary Equipment and Supplies	\$903,634.60	15
Metal Bars, Sheets, and Shapes	\$1,106,449.12	88
Metalworking Machinery	\$2,717,037.02	52
Miscellaneous	\$23,505.87	1
Musical Instruments/Phonograph/Home Radio	—	0
Nonmetallic Crude Materials	—	0
Nonmetallic Fabricated Materials	\$2,344,415.01	29
Nuclear Ordnance	—	1
Office Machines, Text Processing Systems	\$13,200.00	1
Office Supplies and Devices	\$282,295.73	19
Ores, Minerals, and Their Primary Products	\$25,739.00	3
Photographic Equipment	\$1,451,406.71	27
Pipe, Tubing, Hose, and Fittings	\$1,241,946.94	33
Plumbing, Heating, and Waste Disposal Equipment	\$56,260.00	5
Prefabricated Structures and Scaffolding	\$416,309.15	15
Pumps and Compressors	\$206,852.54	14
Railway Equipment	—	0
Recreational and Athletic Equipment	—	0
Refrigeration, Air Conditioning, and Air Circulating Equipment	\$1,009,168.77	23
Rope, Cable, Chain, and Fittings	\$89,788.30	2
Service and Trade Equipment	\$393,160.00	4
Ship and Marine Equipment	—	0
Ships, Small Craft, Pontoon, Docks	\$13,761.00	1
Space Vehicles	\$517,635,366.62	210
Special Industry Machinery	\$1,570,950.64	30
Subsistence	—	0
Textiles, Leather, Furs, Apparel, Shoe Findings, Tents, Flags	\$73,486.37	4
Tires and Tubes	—	0
Toiletries	—	0
Tractors	\$139,859.95	2
Training Aids and Devices	\$71,222.25	6
Valves	\$1,712,388.77	30
Vehicular Equipment Components	\$50,781.50	3
Water Purification and Sewage Treatment	\$15,442.00	1
Weapons	—	0
Woodworking Machinery and Equipment	—	0

# AWARDS THROUGH OTHER GOVERNMENT AGENCIES

During FY 2020, \$234.5 million was awarded through other Government agencies. The following table shows the distribution of these awards by agency.

## Awards Through Other Government Agencies Fiscal Year 2020

Agency	Total (Millions)	Percent of Total
Air Force	\$27.1	11.6%
Army	\$22.2	9.5%
Commerce Department	\$0.4	0.2%
Defense Department	\$38.8	16.6%
Energy Department	\$39.0	16.6%
FAA	\$0.02	0.0%
FHA	\$5.8	2.5%
GSA	\$54.7	23.3%
Navy	\$20.3	8.6%
NOAA	\$0.06	0.0%
NSF	\$3.7	1.6%
Other Government Agencies	\$22.4	9.6%
<b>TOTAL</b>	<b>\$234.5</b>	<b>100.0%</b>



# U.S. GEOGRAPHICAL DISTRIBUTION OF AWARDS

## U.S. Geographical Distribution of NASA Prime Contract Awards, Fiscal Year 2020

Region and State	Total	Region and State	Total
<b>NEW ENGLAND</b>	<b>\$183,615,718</b>	<b>PLAINS</b>	<b>\$84,174,264</b>
Connecticut	\$42,424,735	Iowa	\$29,823,632
Maine	\$5,033,969	Kansas	\$9,572,087
Massachusetts	\$109,354,050	Minnesota	\$6,194,039
New Hampshire	\$20,158,541	Missouri	\$22,522,966
Rhode Island	\$3,356,290	Nebraska	\$2,533,123
Vermont	\$3,288,133	North Dakota	\$5,014,458
		South Dakota	\$8,513,958
<b>MID-ATLANTIC</b>	<b>\$2,288,961,831</b>	<b>SOUTHWEST</b>	<b>\$1,375,760,968</b>
Delaware	\$11,343,661	Arizona	\$109,532,714
District of Columbia	\$110,841,370	New Mexico	\$88,365,284
Maryland	\$1,862,109,168	Oklahoma	\$69,906,117
New Jersey	\$21,905,398	Texas	\$1,107,956,854
New York	\$129,748,651		
Pennsylvania	\$153,013,582	<b>ROCKY MOUNTAIN</b>	<b>\$1,662,197,355</b>
<b>SOUTHEAST</b>	<b>\$4,106,756,503</b>	Colorado	\$1,354,629,185
Alabama	\$1,841,846,908	Idaho	\$1,889,493
Arkansas	\$2,017,619	Montana	\$5,109,748
Florida	\$825,244,630	Utah	\$297,797,401
Georgia	\$10,242,770	Wyoming	\$2,771,528
Kentucky	\$13,584,552	<b>PACIFIC</b>	<b>\$5,075,447,899</b>
Louisiana	\$6,010,571	California	\$4,764,320,917
Mississippi	\$328,682,247	Nevada	\$6,594,121
North Carolina	\$48,886,043	Oregon	\$9,445,267
South Carolina	\$6,772,039	Washington	\$295,087,594
Tennessee	\$5,199,918	<b>ALASKA AND HAWAII</b>	<b>\$21,741,092</b>
Virginia	\$972,362,488	Alaska	\$14,664,640
West Virginia	\$45,906,718	Hawaii	\$7,076,452
<b>GREAT LAKES</b>	<b>\$286,351,417</b>	<b>GRAND TOTAL</b>	<b>\$15,085,007,047</b>
Illinois	\$14,416,500		
Indiana	\$54,135,467		
Michigan	\$22,251,786		
Ohio	\$184,526,378		
Wisconsin	\$11,021,286		

# AWARDS PLACED OUTSIDE THE UNITED STATES

During fiscal year 2020, NASA placed \$114.6 million in awards whose work is being performed outside the United States. This work is being performed in 22 countries.

	Place of Performance	Amount in Dollars
	Aruba	\$3,605
	Australia	\$2,093,231
	Austria	\$9,000
	Belgium	\$85,840
	Brazil	\$314,773
	Canada	\$8,443,371
	Denmark	\$146,750
	Finland	\$105,000
	France	\$1,658,471
	Germany	\$2,006,763
	Israel	\$11,850
	Korea, South	\$28,254
	Morocco	\$9,134
	Netherlands	\$20,882,599
	Norway	\$1,706,246
	Peru	\$160,999
	Russia	\$58,591,867
	South Africa	\$83,789
	Spain	\$17,289,425
	Sweden	\$54,150
	Switzerland	\$215,260
	United Kingdom	\$714,239
	<b>Total</b>	<b>\$114,614,615</b>

# PROCUREMENT ACTIVITY BY INSTALLATION

Most of NASA's purchases and contracts are made by the procurement offices located at their field installations.

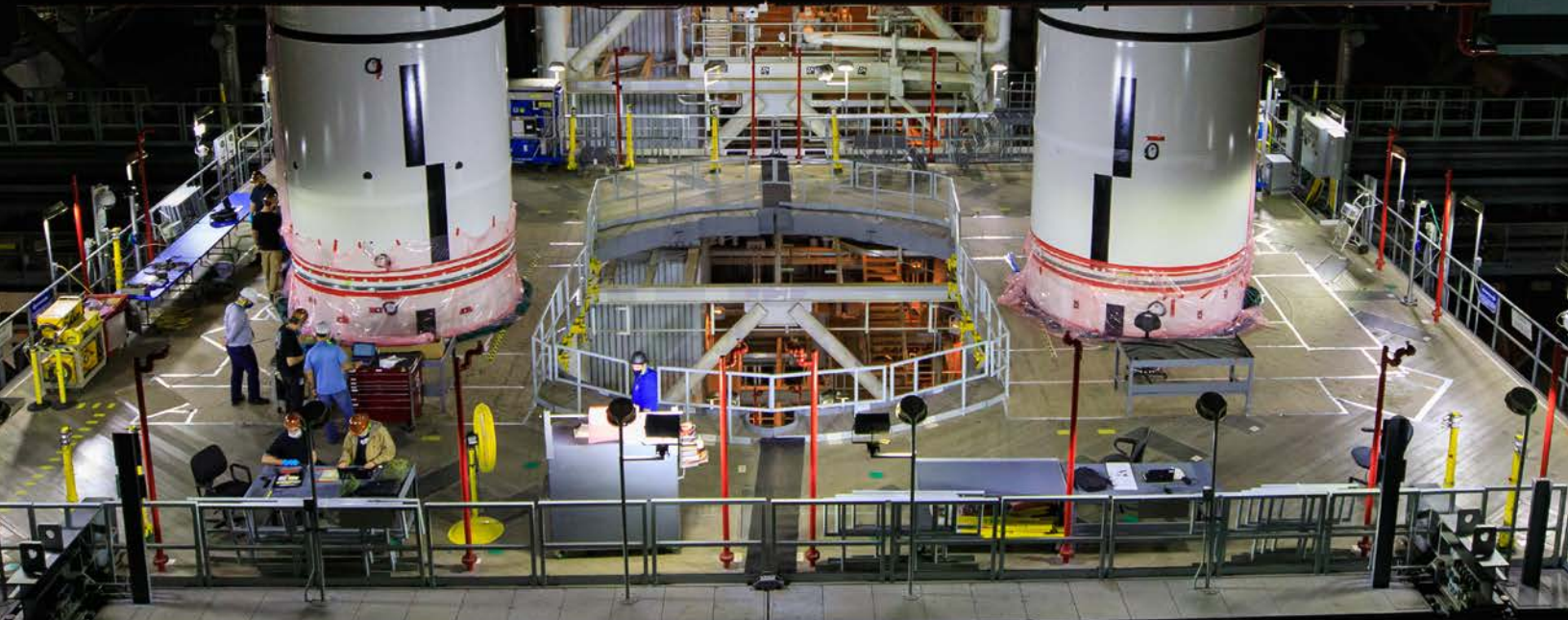
Installation	Dollars (Millions)	Percent of Total
Ames Research Center	\$612.7	3.1%
Armstrong Flight Research Center	\$242.4	1.2%
Glenn Research Center	\$545.4	2.8%
Goddard Space Flight Center	\$3,234.7	16.5%
Headquarters	\$293.7	1.5%
Johnson Space Center	\$4,705.2	24.0%
Kennedy Space Center	\$1,534.0	7.8%
Langley Research Center	\$533.5	2.7%
Marshall Space Flight Center	\$3,554.1	18.1%
NASA Management Office	\$2,805.5	14.3%
NASA Shared Services Center	\$1,313.4	6.7%
Stennis Space Center	\$262.5	1.3%
<b>Total</b>	<b>\$19,637.2</b>	<b>100.0%</b>

Does not include Intragovernmentals.

Includes both the Jet Propulsion Laboratory and the Applied Physics Laboratory.







# GLOSSARY

The data contained in this publication were compiled on the basis of the definitions given below:

1. **Sealed Bids:** Procurement actions resulting from acceptance of bids made by contractors in response to invitations for bid.
2. **Award:** See procurement action.
3. **Coverage:**
  - a. Summary data are provided in terms of obligations on all procurement actions (see item 8). The obligation data are obtained from the Federal Procurement Data System (FPDS-NG).
  - b. Detailed data: Information on procurements includes all contracts, grants, and cooperative agreements. Wherever exclusions apply, a generalized footnote is provided.
4. **Intragovernmental:** Procurement actions placed through other Government agencies, except orders placed under Federal Supply Schedule contracts and awards to small disadvantaged businesses through the Small Business Administration (SBA) under section 8(a) of the Small Business Act.
5. **Modifications:** Any written alteration in the specifications, delivery point, contract period, price, quantity, or other contract requirement of an existing contract, whether accomplished by unilateral action in accordance with a contract clause or by mutual agreement of the parties to the contract. It includes (a) bilateral actions, such as supplemental agreements, and (b) unilateral actions, such as change orders, notices of termination, and notices of the exercise of an option.
6. **Competitive:** Procurements where offers are solicited from more than one responsible offeror capable of satisfying the Government's requirements wholly or partially, and the award or awards were made on the basis of price, design, or technical competition.
7. **Other Than Competitive:** Procurements where an offer was solicited and received from only one responsible offeror capable of satisfying the Government's requirements wholly or partially. (Includes contracts resulting from unsolicited proposals.)
8. **Procurement Action (Award):** Any contractual action to obtain supplies, services, or construction that increases or decreases funds, including the following:
  - a. Letter contracts or other preliminary notices of negotiated awards.
  - b. Definitive contracts, including purchase orders.
  - c. Orders under GSA Federal Supply Schedule contracts and basic ordering agreements and against indefinite-delivery-type contracts.
  - d. Intragovernmental orders.
  - e. Grants.
  - f. Cooperative agreements.
  - g. Supplemental agreements, change orders, administrative changes, and terminations to existing procurements.
9. **Small Business:** For purposes of Government procurement, a small business is a profit-making concern, including its affiliates, which is independently owned and operated, is not dominant in its field, and further qualifies under the size standards criteria of the Small Business Administration. These criteria are published under title 13 of the Code of Federal Regulations, section 121.3-8, and in the Federal Acquisition Regulation, part 19, subpart 19.1. For service industries, the size standard generally is based on average annual receipts over a 3-year period, depending on the service to be procured. Generally, in the case of agricultural or manufactured products, the size standards are determined on the basis of number of employees. The applicable size standard is prescribed in each NASA solicitation.

# Appendix I

## Distribution of Direct NASA Procurements Fiscal Years 1961–70

Type	FY 1961	FY 1962	FY 1963	FY 1964	FY 1965	FY 1966	FY 1967	FY 1968	FY 1969	FY 1970
<b>NET VALUE OF AWARDS (MILLIONS)</b>										
Business Firms	423.3	1,030.1	2,261.7	3,521.1	4,141.4	4,087.7	3,864.1	3,446.7	3,022.3	2,759.2
Educational	24.5 <sup>‡</sup>	50.2 <sup>‡</sup>	86.9	112.9	139.5	150.0	132.9	131.5	131.3	134.3
Nonprofit			15.3	29.1	25.3	27.7	39.6	33.6	32.3	33.0
JPL	86.0	148.5	230.2	226.2	247.2	230.3	222.2	207.2	156.3	179.8
Government	221.7	321.8	628.5	692.6	622.8	512.5	366.9	287.0	279.0	265.8
Outside U.S.	*	*	7.9	12.0	11.2	23.4	25.2	26.7	30.8	33.5
<b>Total</b>	<b>\$755.5</b>	<b>\$1,550.6</b>	<b>\$3,230.5</b>	<b>\$4,593.9</b>	<b>\$5,187.4</b>	<b>\$5,031.6</b>	<b>\$4,650.9</b>	<b>\$4,132.7</b>	<b>\$3,652.0</b>	<b>\$3,405.6</b>

### PERCENT OF TOTAL

Business Firms	56	66	70	77	79	81	83	83	83	81
Educational	3 <sup>‡</sup>	3 <sup>‡</sup>	3	2	3	3	3	3	4	4
Nonprofit			†	1	1	1	1	1	1	1
JPL	12	10	7	5	5	5	5	5	4	5
Government	29	21	20	15	12	10	8	7	7	8
Outside U.S.	*	*	†	†	†	†	†	1	1	1
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

\* Included in Government.

† Less than 0.5 percent.

‡ Combined total of Educational and Nonprofit values.

## Distribution of Direct NASA Procurements Fiscal Years 1971–79

Type	FY 1971	FY 1972	FY 1973	FY 1974	FY 1975	FY 1976	FY 1977 <sup>†</sup>	FY 1977	FY 1978	FY 1979
<b>NET VALUE OF AWARDS (MILLIONS)</b>										
Business Firms	2,279.5	2,143.3	2,063.8	2,118.6	2,255.0	2,536.1	663.2	2,838.1	2,953.8	3,416.4
Educational	133.9	118.8	111.7	97.8	111.4	123.0	27.7	125.5	137.2	147.2
Nonprofit	29.3	28.0	26.4	39.3	33.0	32.0	7.6	32.0	42.8	50.8
JPL	173.3	210.8	202.3	215.2	234.5	263.7	63.6	289.0	283.8	338.6
Government	212.5	207.8	235.2	208.6	198.3	222.4	63.9	223.2	216.0	221.4
Outside U.S.	29.7	29.1	34.0	34.1	34.2	27.4	3.8	24.5	26.0	37.4
<b>Total</b>	<b>\$2,858.2</b>	<b>\$2,737.8</b>	<b>\$2,673.4</b>	<b>\$2,713.6</b>	<b>\$2,866.4</b>	<b>\$3,204.6</b>	<b>\$829.8</b>	<b>\$3,532.3</b>	<b>\$3,659.6</b>	<b>\$4,211.8</b>

### PERCENT OF TOTAL

Business Firms	80	78	77	78	79	79	80	80	81	81
Educational	5	4	4	4	4	4	3	4	4	4
Nonprofit	1	1	1	1	1	1	1	1	1	1
JPL	6	8	8	8	8	8	8	8	8	8
Government	7	8	9	8	7	7	8	6	5	5
Outside U.S.	1	1	1	1	1	1	*	1	1	1
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

\* Less than 0.5 percent.

† FY 1977 represents the transition from a June–July fiscal year to the October–September fiscal year.

## Distribution of Direct NASA Procurements Fiscal Years 1980–89

Type	FY 1980	FY 1981	FY 1982	FY 1983	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
<b>NET VALUE OF AWARDS (MILLIONS)</b>										
Business Firms	3,868.3	4,272.8	4,805.6	5,586.0	5,967.4	6,652.9	6,356.0	6,540.5	7,274.9	8,567.6
Educational	177.0	192.5	187.0	211.3	222.6	256.9	276.6	315.4	370.3	464.2
Nonprofit	82.2	155.1	108.8	102.5	98.6	103.1	119.0	119.1	129.5	180.0
JPL	397.2	410.8	426.3	454.9	533.1	724.6	891.3	1,005.6	979.9	1,058.1
Government	271.8	321.9	308.1	394.2	494.3	525.1	489.7	594.9	734.6	543.2
Outside U.S.	46.1	55.2	47.9	47.9	38.1	35.4	47.1	34.3	55.9	63.3
<b>Total</b>	<b>\$4,842.6</b>	<b>\$5,408.3</b>	<b>\$5,883.7</b>	<b>\$6,796.8</b>	<b>\$7,354.1</b>	<b>\$8,298.0</b>	<b>\$8,179.7</b>	<b>\$8,609.8</b>	<b>\$9,545.1</b>	<b>\$10,876.4</b>

### PERCENT OF TOTAL

Business Firms	80	79	82	82	81	80	78	76	76	79
Educational	3	3	3	3	3	3	3	4	4	4
Nonprofit	2	3	2	1	1	1	1	1	1	2
JPL	8	8	7	7	7	9	11	12	10	10
Government	6	6	5	6	7	6	6	7	8	5
Outside U.S.	1	1	1	1	1	1	1	*	1	*
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

\* Less than 0.5 percent.

## Distribution of Direct NASA Procurements Fiscal Years 1990–99

Type	FY 1990	FY 1991	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
<b>NET VALUE OF AWARDS (MILLIONS)</b>										
Business Firms	10,071.5	10,417.3	10,716.7	10,497.9	9,965.7	10,311.5	9,800.8	9,817.2	9,550.5	9,386.5
Educational	513.6	592.0	659.3	707.8	730.9	814.4	745.7	807.7	898.1	1,019.0
Nonprofit	200.6	244.0	297.8	336.6	311.0	311.1	287.9	383.4	406.3	431.2
JPL	1,106.8	1,139.6	1,229.6	1,029.8	1,093.4	1,135.0	1,188.3	1,126.2	1,171.3	1,294.6
Government	610.4	693.4	498.6	508.4	642.6	562.7	484.7	464.3	407.7	389.6
Outside U.S.	62.3	72.7	76.2	79.9	169.5	206.7	191.8	190.7	127.3	153.7
<b>Total</b>	<b>\$12,565.2</b>	<b>\$13,159.0</b>	<b>\$13,478.2</b>	<b>\$13,160.4</b>	<b>\$12,913.1</b>	<b>\$13,341.4</b>	<b>\$12,699.2</b>	<b>\$12,789.5</b>	<b>\$12,561.2</b>	<b>\$12,674.6</b>

### PERCENT OF TOTAL

Business Firms	80	79	79	80	77	77	77	77	76	74
Educational	4	4	5	5	6	6	6	6	7	8
Nonprofit	2	2	2	3	2	2	2	3	3	4
JPL	9	9	9	8	9	9	9	9	9	10
Government	5	5	4	4	5	4	4	4	4	3
Outside U.S.	*	1	1	*	1	2	2	1	1	1
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

\* Less than 0.5 percent.

**Distribution of Direct NASA Procurements  
Fiscal Years 2000–09**

Type	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
<b>NET VALUE OF AWARDS (MILLIONS)</b>										
Business Firms	9,272.8	9,209.7	9,568.9	9,510.4	9,025.6	10,358.0	11,467.4	10,548.3	12,371.8	12,305.2
Educational	995.1	1,083.9	1,194.0	1,224.6	1,144.5	1,480.0	1,167.7	853.0	1,085.2	1,124.0
Nonprofit	465.8	523.4	582.5	575.5	614.6	740.0	671.3	467.4	587.1	619.9
JPL	1,291.3	1,451.7	1,404.1	1,290.4	1,963.7	1,771.0	1,700.2	1,730.8	1,767.8	1,707.5
Government	382.4	382.0	486.1	601.1	634.1	830.0	659.9	556.4	665.2	504.2
Outside U.S.	97.3	97.4	66.9	71.6	89.9	163.0	179.8	207.4	308.3	466.1
<b>Total</b>	<b>\$12,504.7</b>	<b>\$12,748.1</b>	<b>\$13,302.5</b>	<b>\$13,273.7</b>	<b>\$13,472.4</b>	<b>\$15,342.0</b>	<b>\$15,846.3</b>	<b>\$14,363.3</b>	<b>\$16,785.4</b>	<b>\$16,727.0</b>

<b>PERCENT OF TOTAL</b>										
Business Firms	74	72	72	69	67	68	72	74	74	73
Educational	8	9	9	13	8	10	8	6	6	7
Nonprofit	4	4	4	5	4	5	4	3	3	4
JPL	10	11	11	8	15	11	11	12	11	10
Government	3	3	3	5	5	5	4	4	4	3
Outside U.S.	0	1	1	0	1	1	1	1	2	3
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

**Distribution of Direct NASA Procurements  
Fiscal Years 2010–19**

Type	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
<b>NET VALUE OF AWARDS (MILLIONS)</b>										
Business Firms	13,186.4	12,529.6	11,908.3	11,431.5	12,086.5	12,703.0	13,981.7	\$13,827.7	\$14,131.8	\$14,207.4
Educational	1,035.3	941.4	1,100.5	968.2	1,024.0	906.5	893.6	\$880.2	\$1,341.4	\$1,043.2
Nonprofit	660.1	601.7	1,139.9	643.6	661.0	878.1	967.9	\$924.5	\$1,101.6	\$806.9
JPL	1,618.7	1,604.5	1,239.5	1,708.3	1,708.2	1,847.2	2,133.3	\$2,352.6	\$2,259.5	\$3,022.7
Government	490.0	526.5	512.7	473.1	160.8	339.8	397.5	\$171.3	\$151.4	\$187.4
Outside U.S.	426.9	495.7	669.5	347.1	363.6	517.0	313.9	\$346.2	\$210.8	\$246.7
<b>Total</b>	<b>\$17,417.4</b>	<b>\$16,699.4</b>	<b>\$16,570.4</b>	<b>\$15,571.8</b>	<b>\$16,004.1</b>	<b>\$17,191.5</b>	<b>\$18,687.9</b>	<b>\$18,502.5</b>	<b>\$19,196.7</b>	<b>\$19,514.4</b>

<b>PERCENT OF TOTAL</b>										
Business Firms	76	75	72	73	76	74	75	75	73	73
Educational	6	6	7	6	5	5	5	5	7	5
Nonprofit	4	4	7	5	5	5	5	5	6	4
JPL	9	9	7	11	11	11	11	11	12	16
Government	3	3	3	3	1	2	2	2	1	1
Outside U.S.	2	3	4	2	2	3	2	2	1	1
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100.00</b>	<b>100</b>	<b>100</b>

## Appendix II

### Competition in NASA Awards to Business Firms Fiscal Years 1961–70

Type of Action	FY 1961	FY 1962	FY 1963	FY 1964	FY 1965	FY 1966	FY 1967	FY 1968	FY 1969	FY 1970
<b>NET VALUE OF AWARDS (MILLIONS)</b>										
New Awards*	†	322.6	758.6	685.4	629.2	536.4	694.7	483.7	496.5	619.7
Modifications	†	707.5	1,503.1	2,835.7	3,512.2	3,551.3	3,169.4	2,963.0	2,525.8	2,139.5
<b>Competitive</b>	276.8	565.8	1,302.0	2,119.5	2,630.1	2,692.5	2,698.4	2,185.1	1,632.7	1,628.7
New Awards*	†	167.1	427.1	375.9	334.5	304.2	325.2	271.9	186.7	277.5
Modifications	†	398.7	874.9	1,743.6	2,295.6	2,388.3	2,373.2	1,913.2	1,446.0	1,351.2
<b>Noncompetitive</b>	146.5	464.3	959.7	1,401.6	1,511.3	1,395.2	1,165.7	1,261.6	1,389.6	1,130.5
New Awards*	†	155.5	331.5	309.5	294.7	232.2	369.5	211.8	309.8	342.2
Modifications	†	308.8	628.2	1,092.1	1,216.6	1,163.0	796.2	1,049.8	1,079.8	788.3
<b>Total Business</b>	<b>\$423.3</b>	<b>\$1,030.1</b>	<b>\$2,261.7</b>	<b>\$3,521.1</b>	<b>\$4,141.4</b>	<b>\$4,087.7</b>	<b>\$3,864.1</b>	<b>\$3,446.7</b>	<b>\$3,022.3</b>	<b>\$2,759.2</b>
<b>PERCENT OF TOTAL</b>										
New Awards*	†	31	34	20	15	13	18	14	16	22
Modifications	†	69	66	80	85	87	82	86	84	78
<b>Competitive</b>	65	55	58	60	63	66	70	63	54	59
New Awards*	†	16	19	11	8	7	8	8	6	10
Modifications	†	39	39	49	55	59	62	55	48	49
<b>Noncompetitive</b>	35	45	42	40	37	34	30	37	46	41
New Awards*	†	15	15	9	7	6	10	6	10	12
Modifications	†	30	27	31	30	28	20	31	36	29
<b>Total Business</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

\* Data on new contracts are restricted to contracts of \$10,000 and over.

† Data not compiled

## Competition in NASA Awards to Business Firms Fiscal Years 1971–79

Type of Action	FY 1971	FY 1972	FY 1973	FY 1974	FY 1975	FY 1976	FY 1977†	FY 1977	FY 1978	FY 1979
<b>NET VALUE OF AWARDS (MILLIONS)</b>										
New Awards*	563.0	462.5	489.5	552.4	452.0	486.3	76.4	552.5	633.1	516.6
Modifications	1,716.5	1,680.8	1,574.3	1,566.2	1,803.0	2,049.8	586.8	2,285.6	2,320.7	2,899.8
<b>Competitive</b>	<b>1,331.8</b>	<b>1,311.8</b>	<b>1,275.6</b>	<b>1,394.9</b>	<b>1,554.6</b>	<b>1,879.5</b>	<b>490.9</b>	<b>2,060.4</b>	<b>2,111.5</b>	<b>2,541.1</b>
New Awards*	306.6	257.0	308.1	279.5	223.9	291.3	46.8	301.7	362.1	304.0
Modifications	1,025.2	1,054.8	967.5	1,115.4	1,330.7	1,588.2	444.1	1,758.7	1,749.4	2,237.1
<b>Noncompetitive</b>	<b>947.7</b>	<b>831.5</b>	<b>788.2</b>	<b>723.7</b>	<b>700.4</b>	<b>656.6</b>	<b>172.3</b>	<b>777.7</b>	<b>842.3</b>	<b>875.3</b>
New Awards*	256.4	205.5	181.4	272.9	228.1	195.0	29.6	250.8	271.0	212.6
Modifications	691.3	626.0	606.8	450.8	472.3	461.6	142.7	526.9	571.3	662.7
<b>Total Business</b>	<b>\$2,279.5</b>	<b>\$2,143.3</b>	<b>\$2,063.8</b>	<b>\$2,118.6</b>	<b>\$2,255.0</b>	<b>\$2,536.1</b>	<b>\$663.2</b>	<b>\$2,838.1</b>	<b>\$2,953.8</b>	<b>\$3,416.4</b>
<b>PERCENT OF TOTAL</b>										
New Awards*	24	22	24	26	20	19	11	20	22	15
Modifications	76	78	76	74	80	81	89	80	78	85
<b>Competitive</b>	<b>58</b>	<b>61</b>	<b>62</b>	<b>66</b>	<b>69</b>	<b>74</b>	<b>74</b>	<b>73</b>	<b>72</b>	<b>74</b>
New Awards*	13	12	15	13	10	11	7	11	13	9
Modifications	45	49	47	53	59	63	67	62	59	65
<b>Noncompetitive</b>	<b>42</b>	<b>39</b>	<b>38</b>	<b>34</b>	<b>31</b>	<b>26</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>26</b>
New Awards*	11	10	9	13	10	8	4	9	9	6
Modifications	31	29	29	21	21	18	22	18	19	20
<b>Total Business</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

\* Data on new contracts are restricted to contracts of \$10,000 and over.

† FY 1977 represents the transition from a June–July fiscal year to the October–September fiscal year.

**Competition in NASA Awards to Business Firms**  
**Fiscal Years 1980–85†**

Type of Action	FY 1980	FY 1981	FY 1982	FY 1983	FY 1984	FY 1985
<b>NET VALUE OF AWARDS (MILLIONS)</b>						
New Awards*	634.3	479.3	717.6	761.0	716.6	775.9
Modifications	3,186.1	3,728.9	4,006.9	4,740.2	5,142.7	5,750.0
<b>Competitive</b>	<b>2,858.1</b>	<b>3,127.7</b>	<b>3,436.5</b>	<b>3,845.3</b>	<b>4,286.6</b>	<b>5,030.2</b>
New Awards*	382.5	257.8	351.9	446.2	426.0	533.5
Modifications	2,475.6	2,869.9	3,084.6	3,399.1	3,860.6	4,496.7
<b>Other Than Competitive</b>	<b>962.3</b>	<b>1,080.5</b>	<b>1,288.0</b>	<b>1,655.9</b>	<b>1,572.7</b>	<b>1,495.7</b>
New Awards*	251.8	221.5	365.7	314.8	290.6	242.4
Modifications	710.5	859.0	922.3	1,341.1	1,282.1	1,253.3
<b>Total Business</b>	<b>\$3,820.4</b>	<b>\$4,208.2</b>	<b>\$4,724.5</b>	<b>\$5,501.2</b>	<b>\$5,859.3</b>	<b>\$6,525.9</b>

<b>PERCENT OF TOTAL</b>						
New Awards*	17	11	15	14	12	12
Modifications	83	89	85	86	88	88
<b>Competitive</b>	<b>75</b>	<b>74</b>	<b>72</b>	<b>70</b>	<b>73</b>	<b>77</b>
New Awards*	10	6	7	8	7	8
Modifications	65	68	65	62	66	69
<b>Other Than Competitive</b>	<b>25</b>	<b>26</b>	<b>28</b>	<b>30</b>	<b>27</b>	<b>23</b>
New Awards*	7	5	8	6	5	4
Modifications	18	21	20	24	22	19
<b>Total Business</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

\* Data on new contracts are restricted to contracts of \$10,000 and over.  
† Excludes 8(a) awards.



**Competition in NASA Awards to Business Firms**  
**Fiscal Years 1986–95**

Type of Action	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991	FY 1992	FY 1993	FY 1994	FY 1995
<b>NET VALUE OF AWARDS (MILLIONS)</b>										
<b>Competed</b>	4,950.1	5,031.7	5,890.3	6,995.8	8,318.4	8,169.8	8,660.9	8,635.6	7,202.3	6,944.6
New Awards	772.5	827.3	1,091.0	891.7	1,059.6	679.5	699.1	766.7	1,155.9	874.2
Modifications	4,177.6	4,204.4	4,799.3	6,104.1	7,258.8	7,490.3	7,961.8	7,868.9	6,046.4	6,070.4
<b>Not Competed</b>	2,143.1	1,445.7	1,279.4	1,376.3	1,338.5	782.8	780.2	699.0	1,790.2	2,532.2
New Awards	289.4	404.5	193.0	214.7	244.5	123.6	161.8	241.4	1,267.9	456.5
Modifications	1,853.7	1,041.2	1,086.4	1,161.6	1,094.0	659.2	618.4	457.6	522.3	2,075.7
<b>Follow-On</b>	217.1	97.9	180.7	333.4	545.4	1,610.1	1,436.2	1,314.5	1,145.9	1,048.8
New Awards	15.1	0.5	160.1	1.2	138.4	595.5	6.8	0.5	9.9	106.5
Modifications	202.0	97.4	20.6	332.2	407.0	1,014.6	1,429.4	1,314.0	1,136.0	942.3
<b>Total Available</b>	<b>\$7,310.3</b>	<b>\$6,575.3</b>	<b>\$7,350.4</b>	<b>\$8,705.5</b>	<b>\$10,202.3</b>	<b>\$10,562.7</b>	<b>\$10,877.3</b>	<b>\$10,649.1</b>	<b>\$10,138.4</b>	<b>\$10,525.6</b>
<b>PERCENT OF TOTAL</b>										
<b>Competed</b>	67.7	76.5	80.1	80.4	81.5	77.3	79.6	81.1	71.0	66.0
New Awards	10.6	12.6	14.8	10.3	10.4	6.4	6.4	7.2	11.4	8.3
Modifications	57.1	63.9	65.3	70.1	71.1	70.9	73.2	73.9	59.6	57.7
<b>Not Competed</b>	29.3	22.0	17.4	15.8	13.1	7.4	7.2	6.6	17.7	24.0
New Awards	3.9	6.2	2.6	2.5	2.4	1.2	1.5	2.3	12.5	4.3
Modifications	25.4	15.8	14.8	13.3	10.7	6.2	5.7	4.3	5.2	19.7
<b>Follow-On</b>	3.0	1.5	2.5	3.8	5.4	15.3	13.2	12.3	11.3	10.0
New Awards	0.2	*	2.2	*	1.4	5.7	0.1	*	0.1	1.0
Modifications	1.5	1.5	0.3	3.8	4.0	9.6	13.1	12.3	11.2	9.0
<b>Total Available</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

\* Less than 0.5 percent.

**Competition in NASA Awards to Business Firms  
Fiscal Years 1996–2005**

Type of Action	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
<b>NET VALUE OF AWARDS (MILLIONS)</b>										
<b>Competed</b>	6,486.7	5,399.4	5,255.3	5,459.6	5,384.4	5,743.9	5,763.5	5,979.0	5,653.5	5,998.7
New Awards	951.1	750.2	792.6	803.4	1,065.2	1,041.6	752.1	861.5	1,198.8	*
Modifications	5,535.6	4,649.2	4,462.7	4,656.2	4,319.2	4,702.3	5,011.4	5,117.5	4,454.7	*
<b>Not Competed</b>	2,661.2	3,816.1	3,643.1	3,325.3	3,512.4	3,482.7	3,858.8	3,857.6	3,426.9	6,088.5
New Awards	283.5	177.8	182.5	128.2	312.1	140.4	387.3	405.8	159.4	*
Modifications	2,377.7	3,638.3	3,460.6	3,197.1	3,200.3	3,342.3	3,471.5	3,451.8	3,267.5	*
<b>Follow-On</b>	916.4	789.3	797.8	850.1	730.1	464.0	502.2	556.7	550.4	114.8
New Awards	0.5	12.3	65.0	208.1	299.8	6.4	1.9	81.1	6.4	*
Modifications	915.9	777.0	732.8	642.0	430.3	457.6	500.3	475.6	544.0	*
<b>Total Available</b>	<b>\$10,064.4</b>	<b>\$10,004.8</b>	<b>\$9,696.2</b>	<b>\$9,635.0</b>	<b>\$9,626.9</b>	<b>\$9,690.6</b>	<b>\$10,124.5</b>	<b>\$10,393.3</b>	<b>\$9,630.8</b>	<b>\$12,201.9</b>
<b>PERCENT OF TOTAL</b>										
<b>Competed</b>	64.5	54.0	54.2	56.7	56.0	59.3	56.9	57.5	58.7	49.2
New Awards	9.5	7.5	8.2	8.4	11.1	10.8	7.4	8.3	12.5	*
Modifications	55.0	46.5	46.0	48.3	44.9	48.5	49.5	49.2	46.2	*
<b>Not Competed</b>	26.4	38.1	37.6	34.5	36.5	35.9	38.1	37.1	35.5	49.9
New Awards	2.8	1.7	1.9	1.3	3.3	1.4	3.8	3.9	1.6	*
Modifications	23.6	36.4	35.7	33.2	33.2	34.5	34.3	33.2	33.9	*
<b>Follow-On</b>	9.1	7.9	8.2	8.8	7.5	4.8	5.0	5.4	5.7	0.9
New Awards	0.0	0.1	0.7	2.1	3.1	0.1	0.1	0.8	0.1	*
Modifications	9.1	7.8	7.5	6.7	4.4	4.7	4.9	4.6	5.6	*
<b>Total Available</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

\* FY 2005 data are obtained from the FPDS-NG system. Breakout between New Awards and Modifications is not available

## Competition in NASA Awards to Business Firms Fiscal Years 2006–15

Type of Action	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
<b>NET VALUE OF AWARDS (MILLIONS)</b>										
Completed	6,356.4	6,253.4	7,645.7	8,121.4	8,865.3	8,806.9	9,331.4	9,261.4	10,066.9	10,787.8
New Awards	*	*	*	*	*	*	*	*	*	*
Modifications	*	*	*	*	*	*	*	*	*	*
Not Competed†	4,235.1	4,603.4	5,537.4	5,487.1	5,343.3	6,548.9	5,802.5	4,949.0	4,883.4	5,114.9
New Awards	*	*	*	*	*	*	*	*	*	*
Modifications	*	*	*	*	*	*	*	*	*	*
Follow-On‡	86.8	1,850.8	1,783.9	1,541.7	1,807.9	‡	‡	‡	‡	‡
New Awards	*	*	*	*	*					
Modifications	*	*	*	*	*					
<b>Total Available</b>	<b>\$10,678.3</b>	<b>\$12,707.6</b>	<b>\$14,666.8</b>	<b>\$15,150.2</b>	<b>\$16,016.5</b>	<b>\$15,355.8</b>	<b>\$15,133.9</b>	<b>\$14,210.7</b>	<b>\$14,950.5</b>	<b>\$15,902.8</b>

### PERCENT OF TOTAL

Completed	49.2	49.1	52.1	53.6	55.3	57.4	61.7	65.2	67.3	67.8
New Awards	*	*	*	*	*	*	*	*	*	*
Modifications	*	*	*	*	*	*	*	*	*	*
Not Competed	49.9	36.3	35.7	36.2	33.4	42.6	38.3	34.8	32.7	32.2
New Awards	*	*	*	*	*	*	*	*	*	*
Modifications	*	*	*	*	*	*	*	*	*	*
Follow-On‡	0.9	14.6	12.2	10.2	11.3	‡	‡	‡	‡	‡
New Awards	*	*	*	*						
Modifications	*	*	*	*						
<b>Total Available</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

\* Beginning in FY 2006, data are obtained from the FPDS-NG system. Breakout between New Awards and Modifications is not available.

† Beginning in FY 2008, Not Competed dollars include Not Available for Competition dollars.

‡ Beginning in FY 2011, Not Competed dollars include Follow-Ons.

## Competition in NASA Awards to Business Firms Fiscal Years 2016–20

Type of Action	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
<b>NET VALUE OF AWARDS (MILLIONS)</b>					
Completed	\$11,981	\$11,724	\$12,175	\$11,962	\$13,496.0
Not Competed	\$5,293	\$5,551	\$5,860	\$6,193	\$5,906.6
<b>Total</b>	<b>\$17,274</b>	<b>\$17,274</b>	<b>\$18,035</b>	<b>\$18,155</b>	<b>\$19,402.6</b>

### PERCENT OF TOTAL

Completed	69.4	69.4	67.5	65.9	69.6
Not Competed	30.6	30.6	32.5	34.1	30.4
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

## Appendix III

### Small Business Participation in NASA Procurements Fiscal Years 1961–90 (Millions of Dollars)

	FY 1961	FY 1962	FY 1963	FY 1964	FY 1965	FY 1966	FY 1967	FY 1968	FY 1969	FY 1970
<b>Small Business</b>	63.5	123.6	191.3	240.3	286.3	255.9	216.9	189.6	162.8	161.2
% of Total	15.0	12.0	8.5	6.8	6.9	6.3	5.6	5.5	5.4	5.8
<b>Set-Asides</b>	6.0	14.0	26.0	39.5	67.4	50.6	45.7	34.0	31.4	35.7
% of Total	1.4	1.3	1.1	1.1	1.6	1.2	1.2	1.0	1.0	1.3
% of Small	9.4	11.3	13.6	16.4	23.5	19.8	21.1	17.9	19.3	22.1
<b>Total Business</b>	<b>\$423.3*</b>	<b>\$1,030.1</b>	<b>\$2,261.7</b>	<b>\$3,521.1</b>	<b>\$4,141.4</b>	<b>\$4,087.7</b>	<b>\$3,864.1</b>	<b>\$3,446.1</b>	<b>\$3,022.3</b>	<b>\$2,759.2</b>

	FY 1971	FY 1972	FY 1973	FY 1974	FY 1975	FY 1976	FY 1977	FY 1978	FY 1979	FY 1980
<b>Small Business</b>	178.1	160.9	155.3	181.2	216.0	218.3	255.0	281.5	325.4	384.6
% of Total	7.8	7.5	7.5	8.6	9.6	8.6	9.0	9.5	9.5	9.9
<b>Set-Asides</b>	41.1	45.1	47.3	61.5	62.6	66.8	83.7	92.5	99.4	175.2
% of Total	1.9	2.1	2.3	3.0	2.8	2.6	3.0	3.1	3.0	4.5
% of Small	23.1	28.0	30.5	33.9	29.0	30.6	32.8	32.9	30.5	45.6
<b>Total Business</b>	<b>\$2,279.5</b>	<b>\$2,143.3</b>	<b>\$2,063.8</b>	<b>\$2,118.6</b>	<b>\$2,255.0</b>	<b>\$2,536.1</b>	<b>\$2,838.1</b>	<b>\$2,953.8</b>	<b>\$3,416.4</b>	<b>\$3,868.3</b>

	FY 1981	FY 1982	FY 1983	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990
<b>Small Business</b>	409.4	430.1	482.3	556.2	644.7	671.3	786.3	801.4	857.3	924.3
% of Total	9.6	8.9	8.6	9.3	9.7	10.6	12.0	11.0	10.0	9.2
<b>Set-Asides</b>	195.8	209.3	212.0	222.5	270.0	260.9	297.2	326.1	322.5	307.3
% of Total	4.6	4.4	3.8	3.7	4.1	4.1	4.5	4.5	3.8	3.1
% of Small	47.8	48.6	43.9	40.0	41.9	38.9	37.8	40.7	37.6	33.2
<b>Total Business</b>	<b>\$4,272.8</b>	<b>\$4,805.6</b>	<b>\$5,586.0</b>	<b>\$5,967.4</b>	<b>\$6,652.9</b>	<b>\$6,356.0</b>	<b>\$6,540.5</b>	<b>\$7,274.9</b>	<b>\$8,567.6</b>	<b>\$10,071.5</b>

\* Excludes procurements placed under General Services Administration contracts.

**Small Business Participation in NASA Procurements**  
**Fiscal Years 1991–2020**  
(Millions of Dollars)

	FY 1991	FY 1992	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000
<b>Small Business</b>	968.3	1,010.6	1,060.7	1,150.2	1,171.2	1,162.5	1,244.2	1,218.3	1,287.0	1,485.5
% of Total	9.3	9.4	10.1	11.5	11.4	11.9	12.7	12.8	13.7	16.0
<b>Set-Asides</b>	324.3	274.9	315.1	330.4	366.7	348.5	429.4	457.2	530.4	565.1
% of Total	3.1	2.6	3.0	3.3	3.6	3.6	4.4	4.8	5.6	6.1
% of Small	33.5	27.2	29.7	28.7	31.3	30.0	34.5	37.5	41.2	38.1
<b>Total Business</b>	<b>\$10,417.3</b>	<b>\$10,716.7</b>	<b>\$10,497.9</b>	<b>\$9,965.7</b>	<b>\$10,311.5</b>	<b>\$9,800.8</b>	<b>\$9,817.2</b>	<b>\$9,550.5</b>	<b>\$9,386.5</b>	<b>\$9,272.8</b>

	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010
<b>Small Business</b>	1,609.9	1,680.0	1,600.1	1,755.5	1,818.9	1,938.1	2,002.7	2,270.7	2,271.8	2,286.0
% of Total	17.5	17.6	16.8	19.5	17.6	16.9	18.6	18.4	18.5	17.3
<b>Set-Asides</b>	568.1	582.4	477.9	552.1	620.2	665.8	747.5	898.1	901.4	926.5
% of Total	6.2	6.1	5.0	6.1	6.0	5.8	6.9	7.3	7.3	7.0
% of Small	35.3	34.6	29.8	31.4	34.1	34.3	37.3	39.6	39.7	40.5
<b>Total Business</b>	<b>\$9,209.7</b>	<b>\$9,568.9</b>	<b>\$9,510.4</b>	<b>\$9,025.6</b>	<b>\$10,357.8</b>	<b>\$11,467.4</b>	<b>\$10,756.2</b>	<b>\$12,371.7</b>	<b>\$12,305.2</b>	<b>\$13,186.5</b>

	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
<b>Small Business</b>	2,630.8	2,630.8	2,761.3	2,524.0	2,541.3	2,739.4	2,830.0	2,993.8	3,137.8	\$3,307
% of Total	20.0	22.1	24.2	20.9	20.0	19.6	20.0	20.9	22.1	21.8
<b>Set-Asides</b>	1,073.1	1,114.6	1,141.5	1,177.8	1,232.1	1,505.0	1,464.9	1,622.8	1,616.3	2,065.1
% of Total	8.6	9.4	10.0	9.7	9.7	10.8	10.4	11.3	11.4	13.6
% of Small	42.7	42.4	41.3	46.7	48.5	54.9	51.8	54.2	51.5	60.3
<b>Total Business</b>	<b>\$12,529.6</b>	<b>\$11,908.3</b>	<b>\$11,431.5</b>	<b>\$12,086.5</b>	<b>\$12,703</b>	<b>\$13,981.7</b>	<b>14,134.7</b>	<b>14,305.0</b>	<b>14,207.4</b>	<b>15,177.6</b>

\* Excludes procurements placed under General Services Administration contracts.



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300 E Street SW  
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