Department of Defense FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted (Base+Emerg+ OCO)
Research, Development, Test & Eval, DW	332,136	315,202			315,202
Total Research, Development, Test & Evaluation	332,136	315,202			315,202

Department of Defense FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total	FY 2021 Total (Base + OCO)
Research, Development, Test & Eval, DW	206,947				206,947
Total Research, Development, Test & Evaluation	206,947				206,947

Department of Defense FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

Summary Recap of Budget Activities	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted (Base+Emerg+ OCO)
Advanced Technology Development	273,449	268,152			268,152
System Development & Demonstration	40,674	31,773			31,773
Management Support	14,569	10,027			10,027
Operational Systems Development	3,444	5,250			5,250
Total Research, Development, Test & Evaluation	332,136	315,202	14	8	315,202
Summary Recap of FYDP Programs				St.	
Research and Development	328,692	309,952			309,952
Central Supply and Maintenance	3,444	5,250			5,250
Total Research, Development, Test & Evaluation	332,136	315,202			315,202

Department of Defense FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

13 Feb 2020

		FY 2021	FY 2021 OCO for Base	OCO for Direct War and Enduring	FY 2021 Total	FY 2021 Total
Summary Recap of Budget Activities		Base	Requirements	Costs	000	(Base + OCO)
Advanced Technology Development		174,309				174,309
System Development & Demonstration		23,552				23,552
Management Support						
Operational Systems Development	≈ ₁₃₈	9,086				9,086
Total Research, Development, Test & Evaluation		206,947				206,947
Summary Recap of FYDP Programs						
Research and Development		197,861				197,861
Central Supply and Maintenance		9,086				9,086
Total Research, Development, Test & Evaluation		206,947				206,947

Defense-Wide FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

13 Feb 2020

Summary Recap of Budget Activities	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	Total Enacted (Base+Emerg+ OCO)
Advanced Technology Development	273,449	268,152			268,152
System Development & Demonstration	40,674	31,773			31,773
Management Support	14,569	10,027			10,027
Operational Systems Development	3,444	5,250			5,250
Total Research, Development, Test & Evaluation	332,136	315,202			315,202
Summary Recap of FYDP Programs				76	
Research and Development	328,692	309,952			309,952
Central Supply and Maintenance	3,444	5,250			5,250
Total Research, Development, Test & Evaluation	332,136	315,202			315,202

Defense-Wide FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

13 Feb 2020

*		139	OCO for		
Summary Recap of Budget Activities	FY 2021 Base	FY 2021 OCO for Base Requirements	Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)
Advanced Technology Development	174,309				174,309
System Development & Demonstration	23,552				23,552
Management Support					
Operational Systems Development	9,086				9,086
Total Research, Development, Test & Evaluation	206,947				206,947
Summary Recap of FYDP Programs				~	
Research and Development	197,861				197,861
Central Supply and Maintenance	9,086				9,086
Total Research, Development, Test & Evaluation	206,947				206,947

Defense-Wide FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	Total Enacted (Base+Emerg+ OCO)
Defense Logistics Agency	332,136	315,202			315,202
Total Research, Development, Test & Evaluation	332,136	315,202			315,202

Defense-Wide FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation	FY 2021 OCO for FY 2021 Direct War FY 2021 FY 2021 FY 2021 OCO for Base and Enduring Total Total Base Requirements Costs OCO (Base + OCO)	
Defense Logistics Agency	206,947	
Total Research, Development, Test & Evaluation	206,947	

Defense-Wide FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

13 Feb 2020

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act		FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted (Base+Emerg+ OCO)	
50	0603680S	Manufacturing Technology Program	03		62,396	51,002			51,002	Ū
52	0603712S	Generic Logistics R&D Technology Demonstrations	03	- =	18,127	16,620			16,620	υ
54	0603720s	Microelectronics Technology Development and Support	03		192,926	200,530			200,530	Ū
	Advan	ced Technology Development			273,449	268,152			268,152	
133	0605070s	DOD Enterprise Systems Development and Demonstration	05		3,057	2,291			2,291	ΰ
135	0605080S	Defense Agency Initiatives (DAI) - Financial System	05		20,384	23,114	·~		23,114	υ
136	0605090s	Defense Retired and Annuitant Pay System (DRAS)	05		17,233	6,368			6,368	Ū
	Syste	m Development & Demonstration		75	40,674	31,773			31,773	
166	0605502s	Small Business Innovative Research	06		10,715	10,027			10,027	U
179	0606942S	Assessments and Evaluations Cyber Vulnerabilities	06	5	3,854					U
	Manag	mement Support			14,569	10,027			10,027	
253	0708012S	Pacific Disaster Centers	07		1,705	1,705			1,705	Ū
254	0708047S	Defense Property Accountability System	07		1,739	3,545			3,545	Ū
	Opera	tional Systems Development		es A	3,444	5,250		ve w	5,250	
Tota	l Research,	Development, Test & Eval, DW		25	332,136	315,202			315,202	

Defense-Wide FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

13 Feb 2020

Appropriation: 0400D Research, Development, Test & Eval, DW

	Program Element Number		Act	В	2021 ase	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	S e C -
2700046										
50	0603680S	Manufacturing Technology Program	03		40,025				40,025	U
52	0603712s	Generic Logistics R&D Technology Demonstrations	03		10,235				10,235	U
54	0603720S	Microelectronics Technology Development and Support	03	1	24,049				124,049	U
	Advan	ced Technology Development		1	74,309				174,309	
133	0605070s	DOD Enterprise Systems Development and Demonstration	05		1,377				1,377	U
135	0605080S	Defense Agency Initiatives (DAI) - Financial System	05		20,537				20,537	Ū
136	0605090S	Defense Retired and Annuitant Pay System (DRAS)	05		1,638				1,638	Ū
	Syste	m Development & Demonstration			23,552				23,552	
166	0605502S	Small Business Innovative Research	06							U
179	0606942S	Assessments and Evaluations Cyber Vulnerabilities	06							
	Manag	rement Support								
253	0708012S	Pacific Disaster Centers	07		1,785				1,785	U
254	0708047S	Defense Property Accountability System	07	garana.	7,301	1			7,301	U
	Opera	tional Systems Development		9	9,086				9,086	
Tota	l Research,	Development, Test & Eval, DW		- 2	06,947	***************************************			206,947	5

Defense Logistics Agency FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

13 Feb 2020

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Appropriation: 0400D Research, Development, Test & Eval, DW

Prog	***									FY 2020 Total Enacted	S
Line Elem		5		9		FY 2019	FY 2020	FY 2020	FY 2020	(Base+Emerg+	е
No Numb			Act		1161	(Base + OCO)	Base Enacted	Emergency	OCO Enacted	OCO)	C
D			177,002,000								_
50 0603	3680S	Manufacturing Technology Program	03			62,396	51,002			51,002	U
52 0603	3712S	Generic Logistics R&D Technology Demonstrations	03			18,127	16,620			16,620	U
54 0603	3720S	Microelectronics Technology Development and Support	03			192,926	200,530	, , , , , , , , , , , , , , , , , , ,		200,530	U
Advanc	ced Tecl	hnology Development		*		273,449	268,152	9		268,152	
133 0605	5070S	DOD Enterprise Systems Development and Demonstration	05			3,057	2,291			2,291	U
135 0605	5080S	Defense Agency Initiatives (DAI) - Financial System	05			20,384	23,114			23,114	U
136 0605	5090S	Defense Retired and Annuitant Pay System (DRAS)	05			17,233	6,368			6,368	Ū
Syster	m Devel	opment & Demonstration				40,674	31,773			31,773	
166 0605	5502S	Small Business Innovative Research	n 06			10,715	10,027			10,027	U
179 060	6942S	Assessments and Evaluations Cyber Vulnerabilities	06			3,854					Ū
Manage	ement S	upport				14,569	10,027			10,027	
253 0708	8012S	Pacific Disaster Centers	07	s k		1,705	1,705			1,705	U
254 070	8047S	Defense Property Accountability System	07			1,739	3,545	ē.		3,545	U
Opera	tional	Systems Development				3,444	5,250			5,250	
Total De	fense L	ogistics Agency				332,136	315,202			315,202	

Defense Logistics Agency FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

13 Feb 2020

Appropriation: 0400D Research, Development, Test & Eval, DW

Program Line Element No Number	Item	Act 	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	s e c i
50 0603680s	Manufacturing Technology Program	03	40,025				40,025	υ
52 0603712S	Generic Logistics R&D Technology Demonstrations	03	10,235				10,235	U
54 0603720s	Microelectronics Technology Development and Support	03	124,049	₩			124,049	ΰ
Advanced Te	chnology Development		174,309				174,309	
133 0605070s	DOD Enterprise Systems Development and Demonstration	05	1,377				1,377	ΰ
135 0605080s	Defense Agency Initiatives (DAI) - Financial System	05	20,537				20,537	Ü
136 0605090s	Defense Retired and Annuitant Pay System (DRAS)	05	1,638				1,638	U
System Deve	lopment & Demonstration		23,552				23,552	
166 0605502S	Small Business Innovative Research	06						U
179 0606942s	Assessments and Evaluations Cyber Vulnerabilities	06						U
Management	Support							
253 0708012S	Pacific Disaster Centers	07,	1,785			N	1,785	U
254 0708047s	Defense Property Accountability System	07	7,301	48			7,301	U
Operational	Systems Development	3	9,086				9,086	
Total Defense	Logistics Agency		206,947				206,947	

Department of Defense FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted (Base+Emerg+ OCO)
Research, Development, Test & Eval, DW	332,136	315,202			315,202
Total Research, Development, Test & Evaluation	332,136	315,202			315,202

Department of Defense FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation	ar La mari	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)
Research, Development, Test & Eval, DW		206,947				206,947
Total Research, Development, Test & Evaluation		206,947				206,947

Department of Defense FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

13 Feb 2020

Summary Recap of Budget Activities	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	Total Enacted (Base+Emerg+ OCO)
Advanced Technology Development	273,449	268,152			268,152
System Development & Demonstration	40,674	31,773			31,773
Management Support	14,569	10,027			10,027
Operational Systems Development	3,444	5,250			5,250
Total Research, Development, Test & Evaluation	332,136	315,202			315,202
Summary Recap of FYDP Programs					
Research and Development	328,692	309,952			309,952
Central Supply and Maintenance	3,444	5,250			5,250
Total Research, Development, Test & Evaluation	332,136	315,202			315,202

Department of Defense FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

13 Feb 2020

		FY 2021	OCO for Direct War	FY 2021	FY 2021
Summary Recap of Budget Activities	FY 2021 Base	OCO for Base Requirements	and Enduring Costs	Total OCO	Total (Base + OCO)
Advanced Technology Development	174,309		2		174,309
System Development & Demonstration	23,552				23,552
Management Support					
Operational Systems Development	9,086				9,086
Total Research, Development, Test & Evaluation	206,947				206,947
Summary Recap of FYDP Programs					
Research and Development	197,861				197,861
Central Supply and Maintenance	9,086	50 88			9,086
Total Research, Development, Test & Evaluation	206,947				206,947

Defense-Wide FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

13 Feb 2020

FY 2020

Summary Recap of Budget Activities	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	Total Enacted (Base+Emerg+ OCO)
Advanced Technology Development	273,449	268,152			268,152
System Development & Demonstration	40,674	31,773			31,773
Management Support	14,569	10,027			10,027
Operational Systems Development	3,444	5,250			5,250
Total Research, Development, Test & Evaluation	332,136	315,202			315,202
Summary Recap of FYDP Programs					
Research and Development	328,692	309,952			309,952
Central Supply and Maintenance	3,444	5,250			5,250
Total Research, Development, Test & Evaluation	332,136	315,202			315,202

Defense-Wide FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority

(Dollars in Thousands)

Summary Recap of Budget Activities		FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)
	-					-
Advanced Technology Development		174,309				174,309
System Development & Demonstration		23,552				23,552
Management Support						
Operational Systems Development	(4)	9,086				9,086
Total Research, Development, Test & Evaluation	8 18	206,947				206,947
Summary Recap of FYDP Programs			W			
Research and Development		197,861				197,861
Central Supply and Maintenance	e s = 5	9,086				9,086
Total Research, Development, Test & Evaluation		206,947				206,947

Defense-Wide FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

Appropriation	FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted (Base+Emerg+ OCO)
Defense Logistics Agency	332,136	315,202			315,202
Total Research, Development, Test & Evaluation	332,136	315,202			315,202

Defense-Wide FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

	3		FY 2021	FY 2021 OCO for Direct War	FY 2021	FY 2021
Appropriation		FY 2021 Base	OCO for Base Requirements	and Enduring Costs	Total OCO	Total (Base + OCO)
Defense Logistics Agency		206,947				206,947
Total Research, Development, Test & Evaluation		206,947				206,947

Defense-Wide FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

13 Feb 2020

Appropriation: 0400D Research, Development, Test & Eval, DW

Program	3 8			FY 2019	FY 2020	FY 2020	FY 2020	FY 2020 Total Enacted (Base+Emerg+	
Line Element No Number	Item	Act		(Base + OCO)	Base Enacted	Emergency	OCO Enacted	OCO)	С
50 0603680S	Manufacturing Technology Program	03	*	62,396	51,002	1		51,002	U
52 0603712S	Generic Logistics R&D Technology Demonstrations	03		18,127	16,620			16,620	Ū
54 0603720S	Microelectronics Technology Development and Support	03		192,926	200,530			200,530	Ū
Advar	ced Technology Development		ed	273,449	268,152			268,152	
133 0605070s	DOD Enterprise Systems Development and Demonstration	05		3,057	2,291		**	2,291	U
135 0605080S	Defense Agency Initiatives (DAI) - Financial System	05		20,384	23,114			23,114	Ū
136 0605090S	Defense Retired and Annuitant Pay System (DRAS)	05		17,233	6,368			6,368	Ū
Syste	em Development & Demonstration			40,674	31,773			31,773	
166 0605502S	Small Business Innovative Research	06		10,715	10,027			10,027	U
179 06069428	Assessments and Evaluations Cyber Vulnerabilities	06		3,854	«		20000000		Ū
Manag	gement Support			14,569	10,027			10,027	
253 0708012S	Pacific Disaster Centers	07		1,705	1,705			1,705	U
254 0708047S	Defense Property Accountability System	07	~	1,739	3,545			3,545	U
Oper	ational Systems Development			3,444	5,250	· · · · · · · · · · · · · · · · · · ·		5,250	
Total Research	, Development, Test & Eval, DW			332,136	315,202			315,202	

Defense-Wide FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

13 Feb 2020

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act 		FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	S e c
50	0603680S	Manufacturing Technology Program	03		40,025				40,025	U
52	0603712S	Generic Logistics R&D Technology Demonstrations	03		10,235				10,235	Ū.
54	0603720S	Microelectronics Technology Development and Support	03		124,049				124,049	
	Advar	ced Technology Development			174,309			**************************************	174,309	â
133	0605070s	DOD Enterprise Systems Development and Demonstration	05		1,377	S			1,377	U
135	0605080S	Defense Agency Initiatives (DAI) - Financial System	05		20,537				20,537	ΰ
136	0605090S	Defense Retired and Annuitant Pay System (DRAS)	05	a .	1,638				1,638	υ -
	Syste	em Development & Demonstration			23,552				23,552	
16	6 0605502S	Small Business Innovative Research	n 06					8		υ
17	9 0606942S	Assessments and Evaluations Cyber Vulnerabilities	06							ד
	Mana	gement Support								
25	3 0708012s	Pacific Disaster Centers	07		1,785				1,785	U
25	4 0708047S	Defense Property Accountability System	07		7,301				7,301	Ū
	Oper	ational Systems Development			9,086				9,086	
Tot	al Research	, Development, Test & Eval, DW		X	206,947				206,947	-

Defense Logistics Agency FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

13 Feb 2020

Appropriation: 0400D Research, Development, Test & Eval, DW

Line H	Program Element Number	Item	Act 			FY 2019 (Base + OCO)	FY 2020 Base Enacted	FY 2020 Emergency	FY 2020 OCO Enacted	FY 2020 Total Enacted (Base+Emerg+ OCO)	
50	0603680S	Manufacturing Technology Program	03			62,396	51,002		#	51,002	U
52	0603712S	Generic Logistics R&D Technology Demonstrations	03			18,127	16,620			16,620	Ū
54	0603720s	Microelectronics Technology Development and Support	03			192,926	200,530			200,530	Ŭ
Ad	vanced Tec	hnology Development				273,449	268,152			268,152	
133	0605070S	DOD Enterprise Systems Development and Demonstration	05			3,057	2,291			2,291	Ū
135	0605080s	Defense Agency Initiatives (DAI) - Financial System	05			20,384	23,114			23,114	Ū
136	0605090s	Defense Retired and Annuitant Pay System (DRAS)	05			17,233	6,368	*		6,368	ΰ
Sy	stem Devel	opment & Demonstration		<i>5</i> 22	<u></u>	40,674	31,773			31,773	
166	0605502S	Small Business Innovative Research	n 06			10,715	10,027			10,027	U
179	0606942S	Assessments and Evaluations Cyber Vulnerabilities	06			3,854					Ū
Ма	inagement S	Support				14,569	10,027			10,027	
253	0708012S	Pacific Disaster Centers	07			1,705	1,705			1,705	U
254	0708047s	Defense Property Accountability System	07			1,739	3,545		8	3,545	ט
Op	perational	Systems Development		Ø.		3,444	5,250		:	5,250	
Total	. Defense I	Logistics Agency				332,136	315,202			315,202	:

Defense Logistics Agency FY 2021President's Budget Exhibit R-1 FY 2021 President's Budget Total Obligational Authority (Dollars in Thousands)

13 Feb 2020

Appropriation: 0400D Research, Development, Test & Eval, DW

Lir No	Program ne Element Number		Act 	Ø	FY 2021 Base	FY 2021 OCO for Base Requirements	FY 2021 OCO for Direct War and Enduring Costs	FY 2021 Total OCO	FY 2021 Total (Base + OCO)	S e c
	0 0603680s	Manufacturing Technology Program	03		40,025				40,025	U
!	52 0603712s	Generic Logistics R&D Technology Demonstrations	03		10,235		•		10,235	U
į	54 0603720S	Microelectronics Technology Development and Support	03		124,049				124,049	Ū
	Advanced Tec	hnology Development			174,309				174,309	
- 1	33 0605070s	DOD Enterprise Systems Development and Demonstration	05		1,377				1,377	Ū
1	35 0605080S	Defense Agency Initiatives (DAI) - Financial System	05		20,537				20,537	Ū
1	36 0605090s	Defense Retired and Annuitant Pay System (DRAS)	05		1,638				1,638	Ŭ.
	System Devel	opment & Demonstration	g		23,552				23,552	,
1	66 0605502S	Small Business Innovative Research	06					ű		U
1	79 0606942S	Assessments and Evaluations Cyber Vulnerabilities	06						45	υ
	Management S	Support								,
2	53 0708012s	Pacific Disaster Centers	07		1,785				1,785	Ü
2	54 0708047S	Defense Property Accountability System	07		7,301		×		7,301	U
	Operational	Systems Development .			9,086				9,086	١.
To	tal Defense l	Logistics Agency		Y	206,947			·	206,947	***