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Reasonable Defense - Appendix

End Strength, Deployment, Force Structure,
and Budget Tables

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PROJECT ON DEFENSE ALTERNATIVES

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Reasonable Defense
A Sustainable Approach to Securing the Nation

**Appendix: End Strength, Deployment,
Force Structure, and Budget Tables**

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A1. PERSONNEL

- A1.1 Active-component military personnel
- A1.2 Reserve-component military personnel
- A1.3 Allocation of Personnel to Operating Forces and Infrastructure
- A1.4 Active Personnel Routinely Stationed Overseas during Peacetime

A1.1 Active-component military personnel

A1.1 Active Military End Strength, Current vs. *Reasonable Defense*
(thousands of personnel)

	Current	<i>Reasonable Defense</i>	% difference
USAF	333	295	-11.4
USN	330	275	-16.7
USMC	203	160	-21
US Army	553	420	-24
TOTAL ACTIVE	1419	1150	-19

A1.2 Reserve-component military personnel

A1.2 Change in Reserve Personnel Totals
(thousands)

	Current	<i>Reasonable Defense</i>	% change
USAF Reserve	71.4	65	-9
Air National Guard	106.7	100	-6.3
USN Reserve	66.2	60	-9.4
USMC Reserve	39.6	30	-2.4
USA Reserve	205	175	-14.6
Army National Guard	358.2	325	-9.3
TOTAL RESERVES	847.1	755	-10.9

A1.3 Allocation of Personnel to Operating Forces and Infrastructure

A1.3 Reasonable Defense Active Component Personnel Operating Forces vs. Infrastructure Assignment

	Current	Reasonable Defense	% Change
USAF	333	295	-11.4
Op Forces	207	190	-8.2
Infrastructure	126	105	-16.7
USN	330	275	-16.7
Op Forces	179	155	-13.4
Infrastructure	151	120	-9.2
USMC	203	160	-21.2
Op Forces	139.5	115	-17.5
Infrastructure	63.5	45	-29
USA	553	420	-24
Op Forces	402	310	-22.9
Infrastructure	151	110	-27
TOTAL	1419	1150	-19
Op Forces	927.5	770	-17
Infrastructure	491.5	380	-22.7

A1.4 Active Personnel Routinely Stationed Overseas during Peacetime

A1.4 Future US Military Personnel Deployed Abroad (Excluding Contingency Operations)

	Planned 2016 (est.)	Reasonable Defense 2016	RD as % of DoD Plan
Europe	70000	30000	43%
Asia	85,000+	65000	76%
Central Command area	30,000+	~ 15,000	50%
Other	5,000+	< 5,000	90%
TOTAL	190,000+	~ 115,000	~60%

A2. FORCE STRUCTURE

- A2.1 US Nuclear Forces
- A2.2 US Air Power
- A2.3 US Sea Power
- A2.4 US Marine Corps
- A2.4 US Army

A2.1 US Nuclear Forces

A2.1 Nuclear Forces		
	DoD Plan circa 2013 (est)	Reasonable Defense
Warheads on launchers	1970 ^a	900 ^b
Launchers	~776	340
Sea leg	14 submarines ^c – 280 missiles – 1270 warheads	7 submarines ^d – 140 missiles – 700 warheads
Land leg	400 missiles; 400 warheads	200 missiles; 200 warheads
Air leg	96 nuclear-capable bombers; 300 actual warheads ^e	
Under New START Treaty provisions: (a) 1550 of these count as deployed. (b) 800 of these count as deployed. (c) 12 of these submarines with 240 launchers and 1090 warheads count as deployed at any one time. (d) 6 of these submarines with 120 launchers and 600 warheads count as deployed at any one time. (e) 60 bombers count as combat-coded for nuclear mission. The warhead count for each of these is one.		

A2.2 US Air Power

A2.2 Air Power (mission-assigned / total active inventory)		
	DoD Plan circa 2011	Reasonable Defense
USAF bombers:	96 / 162	same
USAF fighters (squadrons)	1200 / 2000 (54-60)	1140 / 1850 (50)
USN fighters (squadrons)	390 / 734 (35)	316 / 570 (28)
USMC fighters (squadrons)	282 / 420 (24)	240 / 360 (20)
Total Bombers & Fighters	1968 / 3316	1792 / 2942

A2.3 US Sea Power

A2.3 Sea Power		
	DoD Plan circa 2011	<i>Reasonable Defense</i>
Aircraft Carriers	11	9
Large Surface Combatants	84-88	72-74
Small Surface Combatants	28-42	28-33
Amphibious Warfare Ships	29-31	23-24
Command, support, and logistics ships	47-58	38-39
Ballistic Missile submarines	14	7
Guided Missile submarines	4	4-6
Attack Submarines	53-55	42
Total	290 (+/-)	230

A2.4 US Marine Corps

A2.4 Marine Corps		
	DoD Plan circa 2011	<i>Reasonable Defense</i>
Marine expeditionary forces	3	same
Marine Divisions	3 AC*, 1 RC*	same
Marine expeditionary unit	7	5
Infantry Battalions	27 AC, 9 RC	18 AC, 6 RC
Other combat battalions: tank, lt. armor, amphibious assault, recon, artillery	21 AC, 7 RC	18 AC, 6 RC
Special Operations Battalions	3	same
Security Force Battalion	2300 marines	same
Embassy Security Group	1000 marines	same
Helicopter and tilt-rotor squadrons	36	30
Fixed-wing fighter squadrons	24	18 plus 4 ECM squadrons
Maritime Prepositioning Squadrons	3 with 16 ships	same
Prepositioned stocks in Norway	1	0
Amphibious Ready Groups with	9 30-38 ships	7 23-24 ships
* AC: Active Component **RC: Reserve Component		

A2.5 US Army

US Army		
	DoD Plan circa 2011	<i>Reasonable Defense</i>
Corps HQs	4	3
Division HQs	18	12
Brigade Combat Teams	73	54
Infantry Brigade Teams	(20 AC, * 20 RC**)	(14 AC, 16 RC)
Stryker Brigade Teams	(8 AC)	(8 AC)
Heavy Brigade Teams	(17 AC, 8 RC)	(11 AC, 5 RC)
Combat Aviation Brigades	13 AC, 8 RC	11 AC, 7 RC
Artillery Brigades	6 AC, 7 RC	5 AC, 6 RC
Patriot battalions	15	same
Terminal High Altitude Area Defense batteries	7	5
* AC: Active Component **RC: Reserve Component		

A3. BUDGET TABLES

- A3.1 Comparison of DoD Base Budget Options for 2012-2022 (billions of “then year” dollars)
- A3.2 Comparison of DoD Base Budget Options for 2012-2022 (billions of 2012 dollars)
- A3.3 DoD Base Budget (non-war) 2001-2022 in Constant 2012 Dollars
- A3.4 Total Budget Authority 2013-2022 by Appropriation Title, DoD Plans vs. Reasonable Defense
- A3.5 Alternative Future-Years Defense Plans by Appropriation Title
- A3.5.1 DoD FY-2012 10-year Plan (billions of dollars)
- A3.5.2 DoD FY-2013 10-year Plan (billions of dollars)
- A3.5.3 Reasonable Defense 10-year Plan (billions of dollars)
- A3.6 Future “Steady State” Base Budget by Appropriation Title, 2013 DoD Plan vs. Reasonable Defense

A3.1 Comparison of DoD Base Budget Options for 2012-2022

(billions of “then year” dollars)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
DoD FY-2012 Plan	570.7	586.4	598.2	610.6	621.6	632.8	644.1	655.7	667.5	681.6
DoD FY-2013 Plan	525.4	533.6	545.9	555.9	567.3	579.3	592.4	605.4	617.9	634.2
Reasonable Defense	512.6	508	505	504	500	510	520.5	531.7	543.9	554

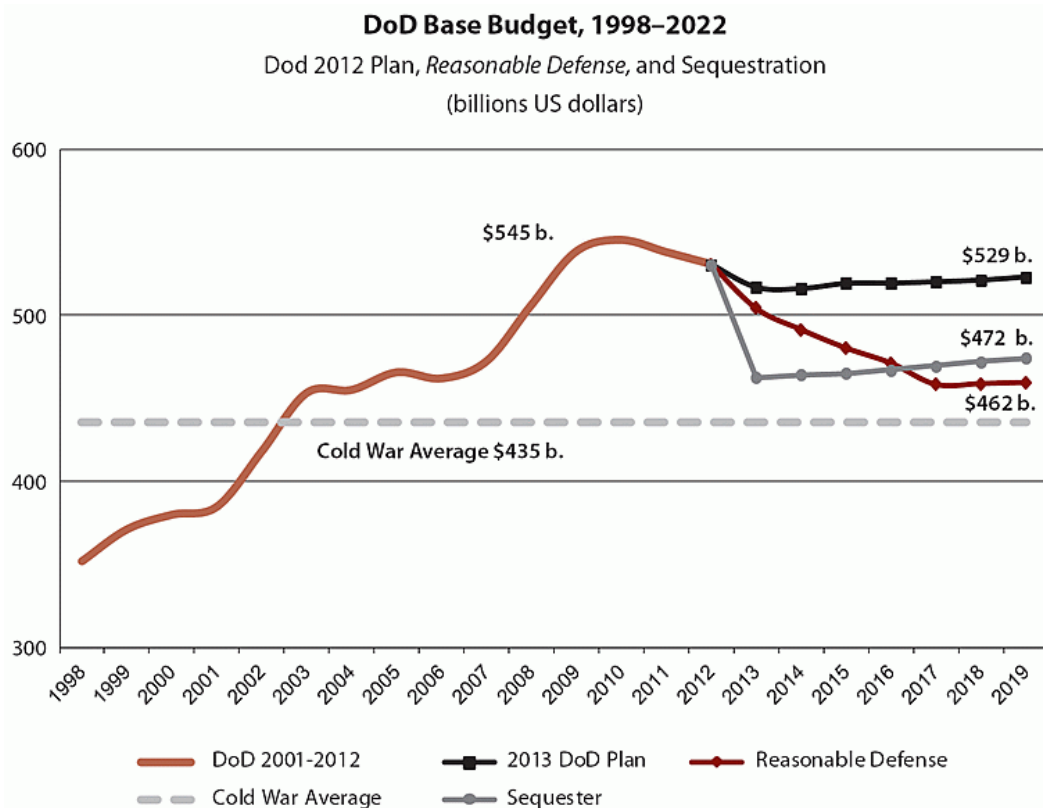
A3.2 Comparison of DoD Base Budget Options for 2012-2022

(billions of 2012 dollars)

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
DoD FY-2012 Plan	561.2	566.9	568.7	570.2	569.6	569.1	568.2	568	567.4	568.5
DoD FY-2013 Plan	516.7	515.9	519	519.2	519.9	521	522.8	524.4	525.2	529
Reasonable Defense	504	491.2	480.1	470.7	458.2	458.7	459.4	460.5	462.3	462.1

A3.3 DoD Base Budget (non-war) 2001-2022 in Constant 2012 Dollars

This chart presents an overview of actual Pentagon base budget growth from 2001 to 2012, and it shows prospective growth through 2022 under three scenarios: (i) adoption of the FY 2013 DoD budget request plan, (ii) adoption of the *Reasonable Defense* option, and (iii) implementation of sequestration under the Budget Control Act. The chart shows that the official plan would roll back the defense budget to the level of 2008 or 2009. By contrast, the *Reasonable Defense* option would roll it back to the level of 2006. In either case, defense spending would remain above the annual average level of Cold War spending in inflation-corrected terms. Also, *Reasonable Defense* achieves savings comparable to those under sequestration, but gradually over five years.



A3.4 Total Budget Authority 2013-2022 by Appropriation Title, DoD Plans vs. *Reasonable Defense*

Total Expenditures 2013-2022 (billions of dollars)	DoD 2012 Plan	DoD 2013 Plan	Reasonable Defense	RD vs. 2012 plan	RD vs. 2013 plan
Military personnel	1604.2	1469.3	1417	-11.7	-3.6
Operation and maintenance	2379.3	2271.1	2006	-15.7	-11.7
Procurement	1384.3	1206.4	1038	-25	-14
R&D	732.2	692.8	618	-15.6	-10.8
Military construction	137.3	90.9	78.9	-42.6	-13.3
Family housing	17	16.7	15.3	-9	-8.4
Revolving, management, trust funds & other	14.8	10.3	16.5	+11.5	+60
TOTAL	6269.1	5757.5	5203.7	-17	-9.6

A3.5 Alternative Future-Years Defense Plans, Annual Breakout by Appropriation Title

A3.5.1 DoD FY-2012 10-year Plan (billions of dollars)

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Mil Personnel	142.8	145.4	149.6	152.6	154.7	158.1	161.5	165.1	168.7	172.5
O&M	204.4	215.0	221.2	228.9	233.2	236.7	240.3	245.0	248.7	252.5
Procurement	113.0	117.6	125.9	129.8	137.2	139.8	142.4	143.9	146.5	149.1
R&D	75.3	75.7	73.5	71.0	69.3	70.5	71.8	73.1	74.4	75.7
Mil Construction	13.1	14.3	13.0	12.8	13.1	13.4	13.6	13.9	14.1	14.4
Family housing	1.7	1.5	1.5	1.6	1.7	1.7	1.7	1.8	1.8	1.8
Trusts & Funds	2.7	1.2	1.5	1.5	1.4	1.5	1.5	1.5	1.5	1.6
TOTAL	553.1	570.7	586.4	598.2	610.6	621.6	632.8	644.2	655.7	667.5

A3.5.2 DoD FY-2013 10-year Plan (billions of dollars)

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Mil Personnel	141.8	135.1	136.4	138.4	141.0	144.0	147.5	151.1	154.7	158.4	162.8
O&M	197.2	208.8	209.9	212.8	219.2	224.4	228.6	234.5	239.4	243.6	249.9
Procurement	104.5	98.8	104.3	112.3	116.3	122.9	125.5	127.2	130.0	132.8	136.3
R&D	71.4	69.4	69.8	69.2	66.8	65.8	67.3	68.8	70.3	71.8	73.7
Mil Construction	11.4	9.6	10.2	11.0	9.3	8.0	8.2	8.4	8.5	8.7	8.9
Family housing	1.7	1.7	1.6	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.8
Trusts & Funds	2.6	2.1	1.4	0.8	1.6	0.7	0.7	0.7	0.7	0.8	0.8
TOTAL	530.6	525.4	533.6	545.9	555.9	567.3	579.3	592.4	605.4	617.9	634.2

A3.5.3 Reasonable Defense 10-year Plan (billions of dollars)

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Mil Personnel	141.8	142.0	141.0	139.0	137.0	135.0	138.0	141.0	144.0	148.0	152.0
O&M	197.2	204.0	200.0	198.0	196.0	192.0	195.0	199.0	203.0	208.0	211.0
Procurement	104.5	88.0	92.0	96.0	100.0	104.0	107.0	109.0	112.0	114.0	116.0
R&D	71.4	66.0	63.0	60.0	60.0	59.0	60.0	61.0	62.0	63.0	64.0
Mil Construction	11.4	9.0	9.0	9.0	8.0	7.0	7.0	7.2	7.4	7.6	7.7
Family housing	1.7	1.6	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6
Trusts & Funds	2.6	2.0	1.5	1.5	1.6	1.6	1.6	1.7	1.7	1.7	1.7
TOTAL	530.6	512.6	508.0	505.0	504.0	500.0	510.0	520.5	531.7	543.9	554.0

A3.6 Future “Steady State” Base Budget by Appropriation Title, 2013 DoD Plan vs. Reasonable Defense

Looking forward to 2023 and beyond, Table A3.6 estimates and compares the future “steady state” Defense Department base budget in accord with two different trend lines: The official FY 2013 DoD “austerity” budget (submitted in February 2012) and the *Reasonable Defense* alternative. In this case, the “steady state” represents the target or goal budget that attains once the current process of retrenchment is complete. Further major change would depend on changes in defense goals, strategy, technology, organization, or threat environment. Notably, the “steady state” budget is expressed in constant dollars (2012 USD). This reflects the fact that the “steady state” incorporates routine growth due to inflation. Growth above inflation in military compensation levels – pay and benefits (including health care) – would also force the “steady state” upwards. Apart from these factors, annual budgets would fluctuate by a few percentage points around the steady-state average.

Future Steady State (billions 2012 dollars)	2013 DoD “Austerity” Plan	Reasonable Defense	RDef as % of New DoD Plan
Military personnel	136	128	94%
Operations and maintenance	208	177	85%
Procurement	114	97	85%
R&D	61	55	90%
Military Construction	7.5	5.7	76%
Family Housing	1.5	1.4	93%
Revolving, management, trust funds & other	1	0.9	90%
TOTAL	530	465	88%
Active Duty End Strength (thousands)	1320	1150	87%