Defense Spending Cuts The Impact on Economic Activity and Jobs

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Inforum World Conference, 2012



- Motivation
 - The Basic Problem That We Studied
 - Scheduled Reductions to Defense Spending
 - The Timeline
 - Composition of Deficit Reduction
 - Scope of Study/Research Questions
 - Related Literature
- Our Results and Contributions
 - Modeling Work
 - Key Assumptions
 - Macro/Industry Impacts
 - State Industry Impacts
 - Induced Impacts
 - Comparisons



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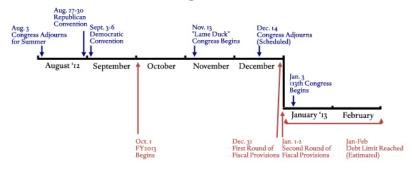
Current Policy: Reductions to Defense Spending

Budget Control Act of 2011

- BCA-1 Caps on total discretionary federal spending (Some exceptions, e.g. operations in Iraq and Afghanistan)
 - \$917 billion of cuts in discretionary spending over 10 years, beginning fiscal 2012
- BCA-2 Automatic cuts ("sequestration") of \$1.2 trillion over 10 years
 - By Nov. 21, 2011, Joint Committee of Congress to schedule at least \$1.2 trillion of additional deficit reduction.
 - The "Super Committee" was unable to agree on a deficit reduction package.
 - As a result, automatic across-the-board reductions start January 1, 2013, split equally between defense and nondefense spending.

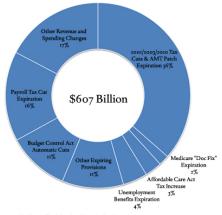
The Timeline

Timeline: Marching Toward the Fiscal Cliff



Composition of Deficit Reduction

Federal Deficit Reduction in FY2013



Source: Congressional Budget Office | Graphic: Hagit Bachrach



Scope of Study/Research Questions

- What will be the macroeconomic impacts?
- Which national industries will be lose the most employees and production?
- Which state will suffer the greatest employment losses?
- How long will the effects last?

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Related Research at Inforum

- Werling and Horst. (2012). Defense Spending Cuts: The Impact on Economic Activity and Jobs. National Association of Manufacturers.
- Werling and Horst. (forthcoming) Sudden Cliff or Steep Slope: Pending Fiscal Policies Will Threaten Jobs and Economic Growth Analysis Using the LIFT Model.

Other Literature

- Congressional Budget Office
 - (January 2012) Budget Outlook
 - (August 2012) An Update to the Budget and Economic Outlook: Fiscal Years 2012 to 2022
- The Committee for a Responsible Budget
 - (Updated 7/16/2012) Between a Mountain of Debt and a Fiscal Cliff: Finding a Smart Path Forward.

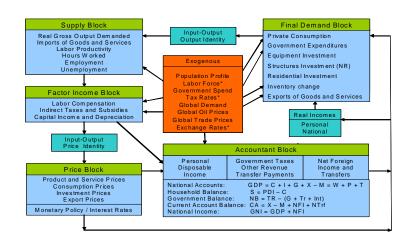
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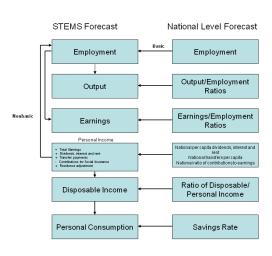
Modeling Work

- Macroeconomic and National Industries (LIFT)
- State Industries (STEMS)
- Primary/Secondary/Tertiary Impacts (STATUS)

LIFT – Long-run Forecasting Tool



STEMS – State Employment Model



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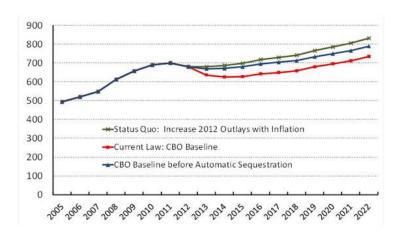


Key Assumptions: CBO

Table 1: U.S. Defense Outlays, Fiscal Year Basis Billions of dollars

												Total
E	Budget	Pro	ojectio	on								2012-
2010 201	1 2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2022
Status Quo: Increase 2012 Outlays with Inflati 689 70	0 680	679	687	698	718	729	741	765	785	805	831	8118
CBO Baseline before Automatic Sequestration Effect of BCA1 caps compared to Status Quo		669 10		679 19					749 36			7166 272
Current Law: CBO Baseline Effect of BCA2 sequestration Effects of BCA1 & BCA2 compared to Status Quo		636 33 43	46		53	55		54	54	54	55	6656 510 782
Source: Congressional Budget Office, Budget Outlook	Janua	rv 201	2. Ta	ble 3.	5. pas	es 74	-75.					

U.S. Defense Outlays, Fiscal Year Basis (Billions of dollars)



Key Assumptions: Lift (Nominal)

Table 2: U.S. Defense Outlays, Calendar Year Basis --- Basic input to LIFT Model Billions of dollars

														Total
	Actu	al	Pro	jectio	on									2012-
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2022
Status Quo: Increase 2012 Outlays with Inflati	692	695	680	681	690	703	721	732	747	770	790	812	835	8160
CBO Baseline before Automatic Sequestration	1		677	670	673	683	697	706	717	737	753	771	793	7878
Effect of BCA1 caps compared to Status Quo			3	12	17	20	24	26	30	33	37	41	42	282
Current Law: CBO Baseline			669	633	626	631	644	651	663	683	699	717	738	7354
Effect of BCA2 sequestration			8	36	48	52	54	55	54	54	54	54	- 55	524
Effects of BCA1 & BCA2 compared to Status Qu	10		11	48	64	72	77	81	84	87	91	95	97	806

Key Assumptions: Lift (Real)

Table 3: U.S. Real Defense Outlays, Calendar Year Basis
Billions of 2011 dollars

														Total
	Actua	ıl	Pro	jectio	on									2012-
-	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2022
Status Quo: Increase 2012 Outlays with Inflati	708	695	667	657	653	653	656	654	654	660	664	667	672	7258
CBO Baseline before Automatic Sequestration	1		665	646	637	634	635	631	628	632	633	634	639	7013
Effect of BCA1 caps compared to Status Quo			2	11	16	19	21	23	26	28	31	33	34	245
Current Law: CBO Baseline			657	611	592	586	586	582	581	586	587	589	594	6551
Effect of BCA2 sequestration			8	35	45	49	49	49	47	46	45	45	44	462
Effects of BCA1 & BCA2 compared to Status Qu	10		11	46	61	67	70	72	73	75	76	78	78	707
* Deflated using baseline GDP deflator.														

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Macro/Industry Impacts

Line 1: BCA-1 Expenditure Caps Only (BCA-1 caps, no BCA-2 sequestration)
Line 2: BCA-2 Sequestration with BCA-1 Caps (CBO current law projection)

Alternatives are shown in deviations from status quo baseline, units as noted.

	2012	2013	2014	2015	2016	2018	2020	2022
Real federal defense expenditures	-0.3	-1.4	-2.1	-2.5	-2.9	-3.6	-4.2	-4.6
(percent)	-1.3	-5.9	-8.0	-9.0	-9.5	-10.1	-10.5	-10.6
Real Gross Domestic Product	0.0	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1
(percent)	-0.1	-0.6	-0.8	-0.7	-0.6	-0.3	-0.2	-0.2
Employment								
Private Sector Employment	-43	-210	-261	-236	-188	-80	-59	-18
(thousands of jobs)	-142	-755	-1010	-878	-611	-148	-15	74
Manufacturing Employment	-4	-20	-34	-33	-28	-14	-12	-11
(thousands of jobs)	-14	-75	-130	-130	-99	-39	-24	-18
Govt Defense Employment	-8	-37	-53	-61	-70	-84	-98	-105
(thousands of jobs)	-35	-152	-201	-222	-229	-236	-241	-243
Total Employment (military + civilian)	-51	-247	-314	-297	-258	-164	-157	-123
(thousands of jobs)	-177	-907	-1211				-257	

National Deficit

Line 1: CBO Status Quo Baseline (Defense expenditures grow with inflation)

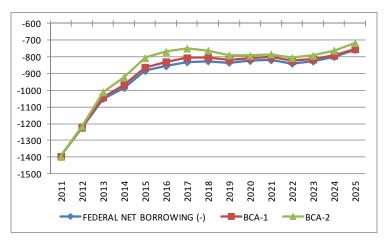
Line 2: BCA-1 Expenditure Caps Only (BCA-1 caps, no BCA-2 sequestration)

Line 3: BCA-2 Sequestration with BCA-1 Caps (CBO current law projection)

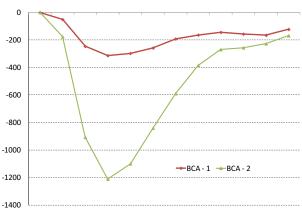
Alternatives are shown in percentage deviations from base, unless otherwise noted.

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
FEDERAL NET BORROWING (-)	-1396	-1224	-1050	-985	-884	-856	-832	-826	-834	-824	-820	-840
(\$ billions)		2	9	17	22	26	25	22	19	17	19	17
		9	40	64	78	87	82	65	44	31	36	35
as percent of GDP	-9.2	-7.8	-6.4	-5.7	-4.9	-4.5	-4.1	-3.9	-3.8	-3.6	-3.4	-3.3
		0.01	0.05	0.09	0.11	0.13	0.12	0.10	0.08	0.06	0.07	0.06
		0.05	0.21	0.33	0.39	0.43	0.39	0.29	0.18	0.12	0.13	0.12
CURRENT ACCOUNT DEFICIT (-)	-467	-541	-592	-583	-598	-643	-713	-756	-756	-752	-763	-769
		1	6	10	10	7	4	4	5	8	10	11
		4	23	35	34	18	7	4	8	18	29	38
as percent of GDP	-3.1	-3.4	-3.6	-3.4	-3.3	-3.4	-3.5	-3.6	-3.4	-3.3	-3.2	-3.1
		0.01	0.03	0.05	0.05	0.03	0.01	0.01	0.02	0.03	0.04	0.04
		0.02	0.12	0.18	0.16	0.07	0.01	0.00	0.02	0.06	0.10	0.13

Federal Net Borrowing



Change in Total Employment Relative to the Status Quo Baseline for Each Scenario (Thousands of jobs)



Industry Employment Impacts

Line 1: BCA-1 Expenditure Caps Only (BCA-1 caps, no BCA-2 sequestration)
Line 2: BCA-2 Sequestration with BCA-1 Caps (CBO current law projection)

Alternatives are shown in percentage deviations from status quo baseline, units as noted.

	2012	2013	2014	2015	2016	2018	2020	2022
Agriculture, Mining, and Construction	0.0	-0.2	-0.3	-0.2	-0.1	0.1	0.1	0.1
	-0.2	-0.9	-1.1	-0.9	-0.4	0.3	0.4	0.2
Construction	-0.1	-0.3	-0.4	-0.3	-0.2	0.1	0.1	0.1
	-0.3	-1.2	-1.5	-1.2	-0.6	0.4	0.4	0.2
Manufacturing	0.0	-0.2	-0.3	-0.3	-0.2	-0.1	-0.1	-0.1
	-0.1	-0.6	-1.0	-1.0	-0.8	-0.3	-0.2	-0.1
Nondurable Manufacturing	0.0	-0.1	-0.2	-0.2	-0.1	0.0	0.0	0.0
	-0.1	-0.5	-0.7	-0.7	-0.5	-0.1	0.0	0.1
Durable Manufacturing	0.0	-0.2	-0.3	-0.3	-0.3	-0.1	-0.1	-0.1
	-0.1	-0.7	-1.2	-1.2	-1.0	-0.4	-0.3	-0.3
Durables Materials and Products	0.0	-0.1	-0.2	-0.2	-0.2	0.0	0.0	0.0
	-0.1	-0.5	-0.9	-0.9	-0.6	0.0	0.0	0.0
Non-Electrical Machinery	0.0	0.0	-0.2	-0.2	-0.2	0.0	0.0	0.0
	0.0	-0.2	-0.8	-1.0	-0.7	0.0	0.0	0.0
Electrical Machinery	-0.1	-0.3	-0.4	-0.4	-0.5	-0.3	-0.3	-0.3
	-0.2	-1.0	-1.6	-1.7	-1.5	-0.9	-0.7	-0.6
Transportation Equipment	-0.1	-0.3	-0.5	-0.5	-0.5	-0.4	-0.4	-0.4
	-0.3	-1.1	-1.8	-1.8	-1.6	-1.0	-0.9	-0.8
Aerospace	-0.1	-0.5	-0.8	-0.9	-1.0	-1.0	-1.0	-1.0
	-0.5	-2.0	-3.1	-3.4	-3.3	-3.0	-2.6	-2.3
Ships & Boats	-0.1	-0.5	-1.0	-0.9	-0.8	-0.8	-0.8	-0.8
	-0.5	-1.4	-3.3	-3.2	-2.8	-2.2	-1.9	-1.7
Instruments and Miscellaneous	-0.1	-0.3	-0.6	-0.6	-0.6	-0.6	-0.7	-0.8
	-0.3	-1.4	-2.1	-2.3	-2.2	-1.8	-1.8	-1.8
Search & Navigation Equipment	-0.3	-1.4	-2.2	-2.5	-2.8	-3.2	-3.6	-3.8
	-1.3	-5.9	-8.4	-9.2	-9.3	-8.9	-8.8	-8.6

Industry Employment Impacts Continued

Line 1: BCA-1 Expenditure Caps Only (BCA-1 caps, no BCA-2 sequestration)
Line 2: BCA-2 Sequestration with BCA-1 Caps (CBO current law projection)

Alternatives are shown in percentage deviations from status quo baseline, units as noted.

	2012	2013	2014	2015	2016	2018	2020	2022
Services	0.0	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	0.0
	-0.1	-0.6	-0.7	-0.6	-0.4	-0.1	0.0	0.1
Transportation, Communication, Utilities	0.0	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1
	-0.1	-0.6	-0.8	-0.8	-0.6	-0.3	-0.2	-0.1
Trucking, hwy pssngr transit	0.0	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1
	-0.1	-0.7	-0.9	-0.8	-0.6	-0.3	-0.2	-0.1
Communications services	0.0	-0.1	-0.1	-0.2	-0.2	-0.2	-0.1	-0.1
	-0.1	-0.3	-0.6	-0.8	-0.8	-0.4	-0.2	-0.1
Trade: Retail, Wholesale, Restaurants	0.0	-0.2	-0.2	-0.1	-0.1	0.0	0.0	0.0
	-0.1	-0.6	-0.7	-0.5	-0.3	0.0	0.1	0.1
Wholesale Trade	0.0	-0.1	-0.2	-0.1	-0.1	0.0	0.0	0.0
	-0.1	-0.4	-0.6	-0.6	-0.4	0.0	0.0	0.0
Retail Trade	0.0	-0.2	-0.2	-0.2	-0.1	0.0	0.0	0.1
	-0.1	-0.8	-0.8	-0.6	-0.3	0.1	0.2	0.3
Finance, Insurance, Real Estate	0.0	-0.1	-0.2	-0.1	-0.1	0.0	0.0	0.0
	-0.1	-0.5	-0.6	-0.5	-0.3	-0.1	0.0	0.1
Health	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0
	-0.1	-0.3	-0.5	-0.4	-0.3	-0.2	0.0	0.2
Other Services	0.0	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1
	-0.1	-0.7	-0.9	-0.8	-0.6	-0.2	-0.1	-0.1
Professional services	0.0	-0.2	-0.3	-0.3	-0.3	-0.2	-0.2	-0.2
	-0.2	-0.8	-1.1	-1.0	-0.9	-0.5	-0.5	-0.4
						-		

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State Industry Employment Impacts

Line 1: NAM - BCA 1 - difference from base

Line 2: NAM - BCA 2 - difference from base

Alternatives are shown in deviations from base values.

	2012	2013	2014	2015	2016	2018	2020	2022	
California	-6.3	-30.6	-38.6	-35.9	-31.0	-19.1	-17.3	-12.2	
	-21.5	-111.5	-148.4	-132.3	-99.9	-43.9	-25.3	-7.3	
Virginia	-4.9	-23.5	-29.8	-28.3	-24.8	-16.8	-16.8	-13.5	
	-17.2	-86.8	-114.9	-104.3	-80.1	-39.3	-28.7	-22.1	
Texas	-4.6	-22.2	-28.2	-26.8	-23.3	-14.9	-14.5	-11.5	
	-16.2	-81.9	-109.0	-99.1	-76.1	-35.1	-24.3	-18.2	
Florida	-2.4	-11.5	-14.6	-13.9	-12.0	-7.5	-7.3	-5.9	
	-8.4	-42.7	-56.6	-51.5	-39.3	-17.2	-11.8	-9.3	
New York	-1.8	-8.8	-10.9	-10.1	-8.6	-4.9	-4.3	-2.7	
	-6.2	-32.0	-42.1	-37.5	-27.9	-11.1	-5.8	-2.8	
Maryland	-1.7	-8.1	-10.4	-10.0	-8.9	-6.0	-6.0	-5.0	
	-6.0	-30.1	-40.2	-36.9	-28.8	-14.3	-10.4	-7.4	
Georgia	-1.6	-7.8	-10.0	-9.7	-8.7	-6.2	-6.3	-5.4	
	-5.8	-29.1	-38.7	-36.0	-28.6	-15.2	-11.7	-10.0	
Illinois	-1.5	-7.4	-9.1	-8.4	- 7□ 0⊳	∢ 📆 .8	3.4	<u>=</u> ¬2. <u>1</u> = =	990

California Employment Impacts

Line 1: Base

Line 2: BCA 1 - difference from base

Line 3: BCA 2 - difference from base

Alternatives are shown in deviations from base values (thousands of jobs).

	2012	2013	2014	2015	2016	2018	2020	2022
California								
Total Employment	16414.6	16726.5	16927.1	17186.3	17526.5	18062.3	18425.8	18761.9
	-6.3	-30.6	-38.6	-35.9	-31.0	-19.1	-17.3	-12.2
	-21.5	-111.5	-148.4	-132.3	-99.9	-43.9	-25.3	-7.3
Private Employment	13784.9	14099.8	14299.6	14555.1	14887.6	15402.9	15740.3	16052.6
	-5.5	-26.9	-33.2	-29.6	-23.9	-10.5	-7.3	-1.5
	-18.0	-96.0	-127.9	-109.8	-76.6	-19.9	-0.8	17.4
Manufacturing Employment	1381.7	1372.2	1365.0	1364.5	1372.6	1385.8	1385.6	1392.8
	-0.5	-2.3	-3.9	-3.9	-3.5	-2.3	-2.2	-2.1
	-1.8	-9.0	-14.9	-15.2	-12.3	-6.5	-4.9	-4.1
Federal Civilian Employment	243.6	240.8	238.4	236.3	235.8	234.4	233.8	233.0
	-0.2	-1.1	-1.6	-1.9	-2.1	-2.5	-3.0	-3.2
	-1.1	-4.6	-6.1	-6.7	-7.0	-7.2	-7.3	-7.3
Federal Military Employment	166.6	165.3	164.0	163.2	162.7	160.9	160.7	160.6
	-0.6	-2.6	-3.8	-4.4	-5.0	-6.0	-7.0	-7.6
	-2.5	-10.9	-14.4	-15.8	-16.4	-16.9	= ⁻¹⁷ ⋅3	-17.4

Virginia Employment Impacts

Line 1: Base

Line 2: BCA 1 - difference from base

Line 3: BCA 2 - difference from base

Alternatives are shown in deviations from base values (thousands of jobs).

	2012	2013	<u>2014</u>	2015	<u>2016</u>	2018	2020	2022
Virginia								
Total Employment	3991.6	4049.6	4096.2	4158.5	4243.1	4372.1	4460.7	4536.8
	-4.9	-23.5	-29.8	-28.3	-24.8	-16.8	-16.8	-13.5
	-17.2	-86.8	-114.9	-104.3	-80.1	-39.3	-28.7	-22.1
Private Employment	3180.4	3240.9	3289.2	3352.0	3435.3	3561.1	3644.0	3715.0
	-4.1	-19.7	-24.4	-22.0	-17.6	-8.2	-6.7	-2.8
	-13.6	-71.2	-94.3	-81.6	-56.7	-15.2	-4.1	2.7
Manufacturing Employment	218.7	218.4	218.0	218.7	220.9	225.5	227.0	228.7
	-0.2	-1.1	-2.0	-1.9	-1.6	-0.8	-0.7	-0.6
	-0.8	-4.2	-7.5	-7.2	-5.4	-2.3	-1.5	-1.0
Federal Civilian Employment	171.2	169.3	167.6	166.1	165.8	164.8	164.3	163.8
	-0.4	-1.8	-2.6	-3.0	-3.5	-4.1	-4.8	-5.2
	-1.7	-7.5	-10.0	-10.9	-11.3	-11.7	-11.9	-11.9
Federal Military Employment	123.0	122.0	121.0	120.4	120.1	118.7	118.6	118.5
	-0.4	-1.9	-2.8	-3.2	-3.7	-4.4	-5.2	-5.6
	-1.8	-8.0	-10.6	-11.7	-12.1	-12.5	= ⁻¹² .7	-12 <u>8</u> ≡ <u>8</u>

- Motivation
 - The Basic Problem That We Studied
 - Scheduled Reductions to Defense Spending
 - The Timeline
 - Composition of Deficit Reduction
 - Scope of Study/Research Questions
 - Related Literature
- Our Results and Contributions
 - Modeling Work
 - Key Assumptions
 - Macro/Industry Impacts
 - State Industry Impacts
 - Induced Impacts
 - Comparisons



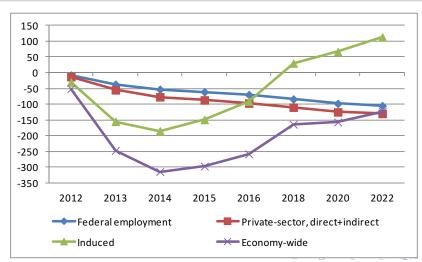
BCA-1 Induced Impacts

Table 7: Decomposition of Employment Results among Federal, Direct, Indirect and Induced Changes

(Thousands of jobs)

(,								
-	2012	2013	2014	2015	2016	2018	2020	2022
BCA-1					·			
Federal employment								
Civilian	-3	-12	-17	-20	-23	-28	-32	-35
Military	-5	-25	-35	-41	-47	-56	-66	-71
Total	-8	-37	-53	-61	-70	-84	-98	-105
Private-sector employment								
Direct	-5	-22	-30	-35	-39	-44	-50	-52
Indirect	-8	-33	-46	-52	-58	-66	-75	-78
Total	-13	-55	-77	-87	-97	-110	-125	-130
Induced	-30	-155	-185	-149	-91	30	66	113
Economy-wide	-51	-247	-314	-297	-258	-164	-157	-123

BCA-1 Induced Impacts



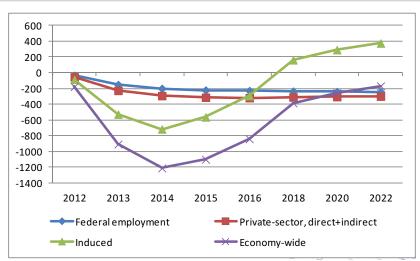
BCA-2 Induced Impacts

Table 7: Decomposition of Employment Results among Federal, Direct, Indirect and Induced Changes

(Thousands of jobs)

(,								
•	2012	2013	2014	2015	2016	2018	2020	2022
BCA-2								
Federal employment								
Civilian	-11	-50	-66	-73	-76	-78	-79	-80
Military	-23	-102	-135	-148	-154	-159	-162	-163
Total	-35	-152	-201	-222	-229	-236	-241	-243
Private-sector, direct+indire	ct							
Direct	-22	-91	-117	-125	-127	-124	-123	-120
Indirect	-33	-135	-176	-189	-191	-186	-183	-180
Total	-55	-227	-293	-314	-319	-310	-306	-300
Induced	-87	-528	-717	-564	-293	161	290	374
Economy-wide	-177	-907	-1211	-1100	-841	-385	-257	-169

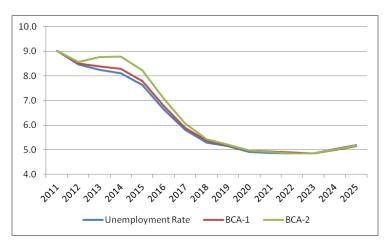
BCA-2 Induced Impacts



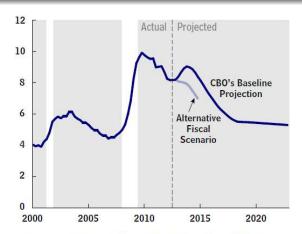
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Unemployment Impacts



Comparison: CBO Unemployment Impacts



Sources: Congressional Budget Office; Department of Labor, Bureau of Labor Statistics.

Summary

• For more, see published work on www.Inforum.umd.edu.

For Further Reading I

- National Association of Manufacturers. (July 2012)

 Defense Cuts Would Cost More Than 1 Million Jobs.
- Jonathan Masters. (Updated August 1, 2012) What Is the Fiscal Cliff?