Handout to Accompany Discussion of

"Declines in the Volatility of the U. S. Economy: A Detailed Look"

(Authors: Bruce Grimm and Brian Sliker)

Robert J. Gordon Northwestern University and NBER

> BEA Advisory Meeting May 2, 2008

Table 1 Standard Deviation of Four Quarter Growth Rates of Components of Real GDP

			Ratio of 1984-2005 to 1950-1983
	1950-1983	1984-2005	(Percent)
Real GDP	3.0	1.6	51
Consumption of Durable Goods	9.4	4.9	52
Consumption of Non-Durable Goods	1.9	1.2	62
	=		=
Consumption of Services	1.2	0.9	74
Equipment and Software Investment	9.1	6.7	74
Nonresidential Structures	7.0	8.4	119
Residential Structures	16.7	7.5	45
Inventory Investment ^a	1.5	1.3	86
Federal Government	11.6	3.8	33
State and Local Government	2.9	1.7	57
Exports	9.7	5.3	55
Imports	8.9	5.6	63
Total Consumption	2.3	1.2	52
Total Investment	13.4	8.6	64
Total Government Spending	6.9	2.0	29

Average Sha	re of N	ominal	GDP
-------------	---------	--------	------------

	Average on are or information				
			Ratio of 1984-2005		
	1950-1983	1984-2005	to 1950-1983		
	(Percent)	(Percent)	(Percent)		
Consumption of Durable Goods	8.5	8.5	100		
Consumption of Non-Durable Goods	27.3	20.6	76		
Consumption of Services	26.7	38.1	143		
Equipment and Software Investment	6.5	7.9	121		
Nonresidential Structures	3.9	3.2	81		
Residential Structures	4.9	4.5	91		
Inventory Investment	8.0	0.5	59		
Federal Government	11.4	7.7	68		
State and Local Government	10.0	11.5	115		
Exports	6.1	9.7	159		
Imports	-6.0	-12.1	202		

Source: NIPA Tables 1.1.3., 1.1.5., 1.1.6., and 5.6.5B.

Note: a. The standard deviation of inventory change is calculated by taking the first difference of real inventory change and dividing through by a twenty-quarter moving average of inventory change. This series begins in 1952:Q2 rather than in 1950:Q1.

TABLE 2
Decomposition of Post-1983 Decline in Real GDP Volatility Between
Changes in Component Volatility and Changes in Shares

	Actual Deviations and Shares	Actual Deviations and 1950-1983 Shares	Actual Shares and 1950-1983 Deviations
1950-1983	5.05	5.05	5.05
1984-2005	2.48	2.73	4.47
Difference Between 1984-2005 and 1950-83	-2.57	-2.32	-0.58

Source: NIPA Tables 1.1.3., 1.1.5., 1.1.6., and 5.6.5B.

TABLE 3
Standard Deviations of Four-quarter Moving
Average of Contributions to Percent
Change in Real GDP, 1950-2005

			Difference, 1950-1983	Percentage Contribution to
	1950-1983	1984-2005	vs. 1984-2005	Sum of Components
Real GDP	3.14	1.61	-1.53	
Sum of Components	7.48	4.57	-2.91	100.0
Consumption of Durable Goods	0.83	0.42	-0.41	14.2
Consumption of Non-Durable Goods	0.55	0.25	-0.30	10.2
Consumption of Services	0.35	0.33	-0.02	0.7
Equipment and Software Investment	0.59	0.55	-0.05	1.6
Nonresidential Structures	0.30	0.29	0.00	0.0
Residential Structures	0.83	0.32	-0.51	17.4
Inventory Investment	1.25	0.73	-0.51	17.6
Federal Government	1.44	0.31	-1.13	38.9
State and Local Government	0.26	0.19	-0.08	2.7
Exports	0.53	0.52	-0.01	0.5
Imports	0.55	0.66	0.11	-3.8
				Percent of Real GDP
GDP minus Residential Structures	2.78	1.44	-1.34	87.5
GDP minus Inventory Investment	2.44	1.33	-1.11	72.5
GDP minus Federal Government	3.18	1.61	-1.57	102.5
GDP minus Residential, Inventories, and Federa	1.93	1.19	-0.74	48.3

Source: NIPA Table 1.1.2.

_		