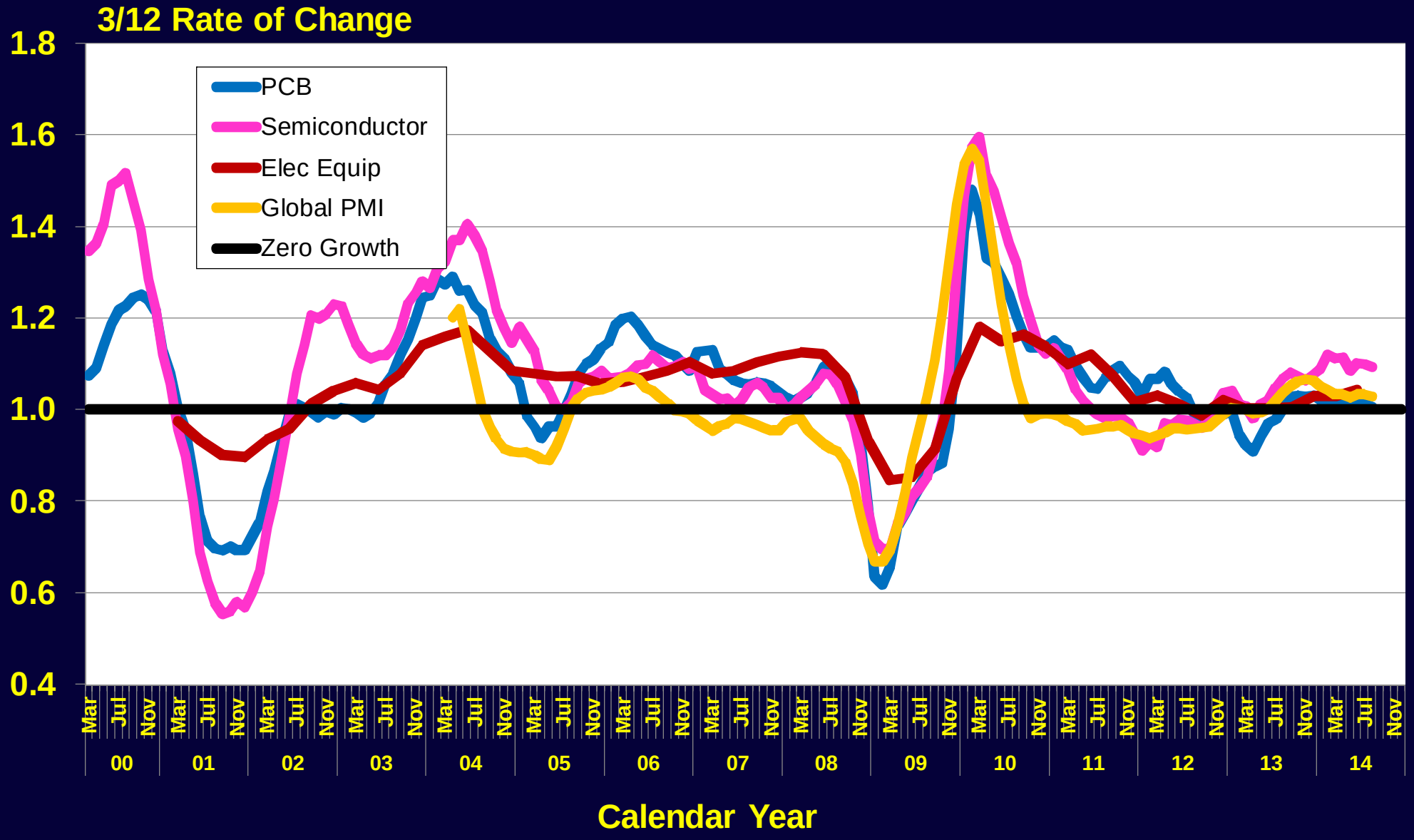
Chart 1

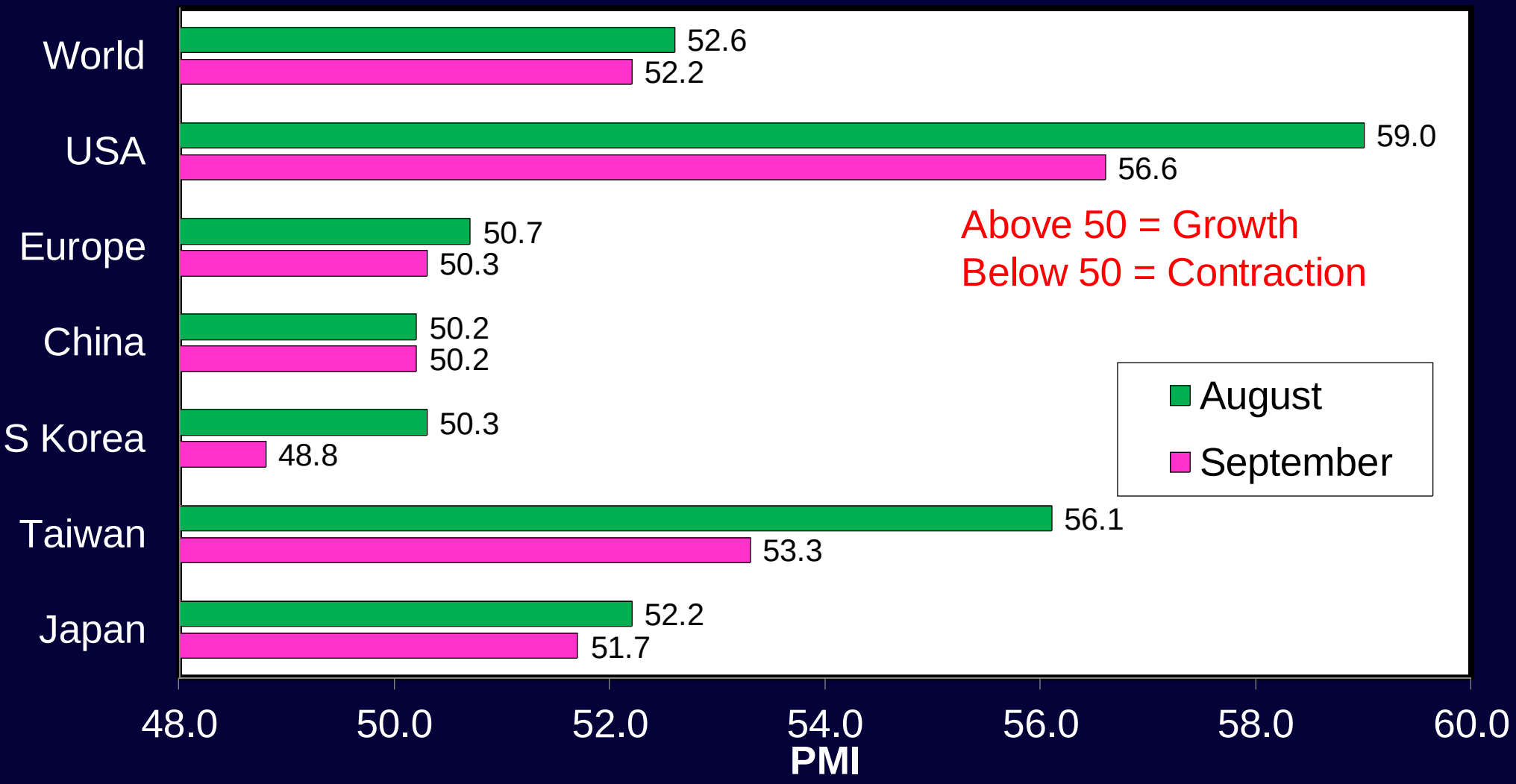
Global PMI, Electronic Equipment, PCB & Semiconductor Shipments



Source: Custer Consulting Group

Chart 2

Purchasing Managers' Indices
August vs. September 2014

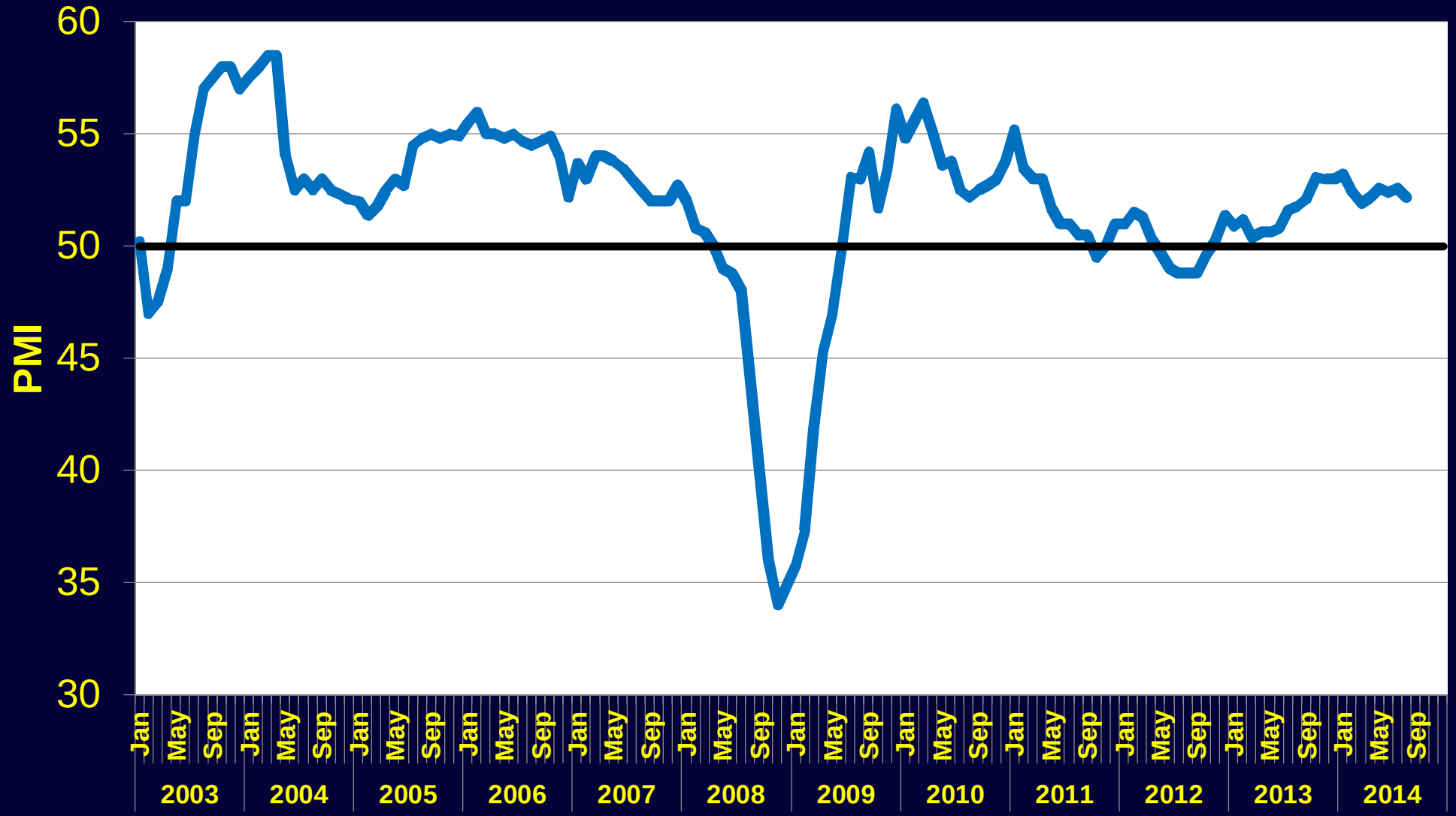


Markit Economics, JPMorgan and ISM

Chart 3

Global "Purchasing Managers" Index

Diffusion Index, >50 = Growth



Markit Economics

Chart 4

U.S "Purchasing Managers" Indices

ISM

Diffusion Index, >50 = Growth

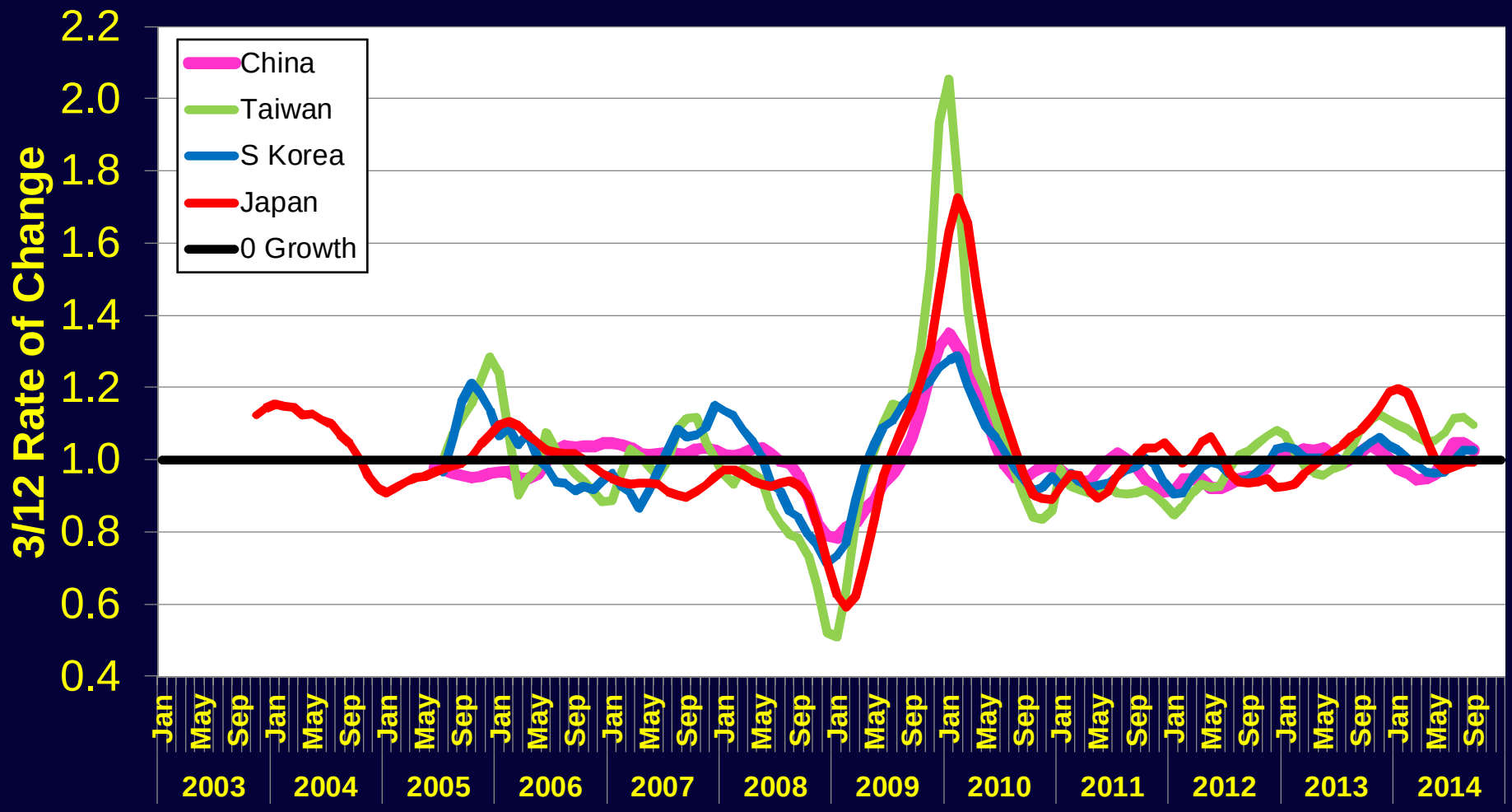


ISM

Chart 5

Asian Purchasing Managers Index

3/12 Rate of Change

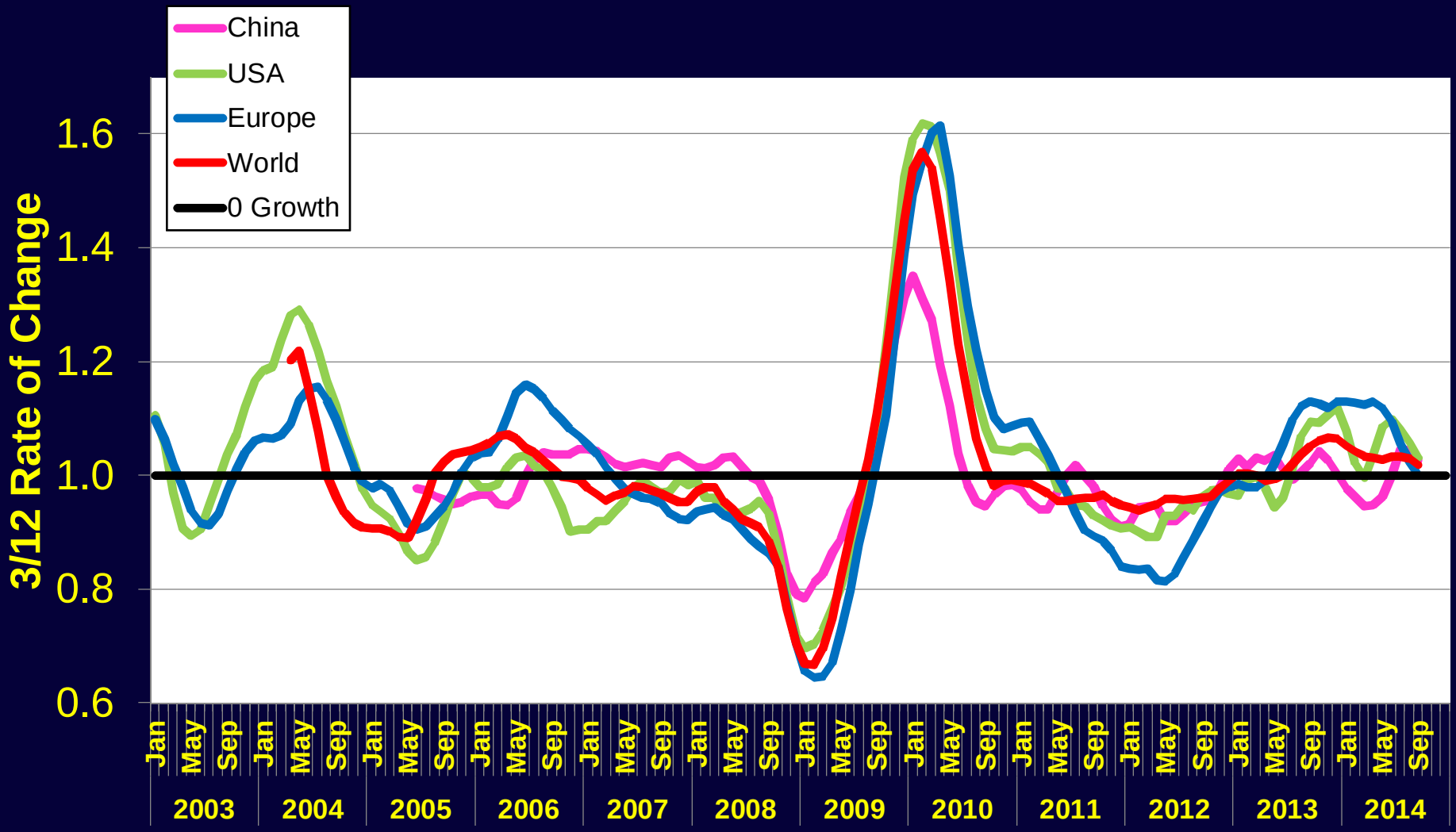


Markit Economics

Chart 6

World Purchasing Managers Index

3/12 Rate of Change

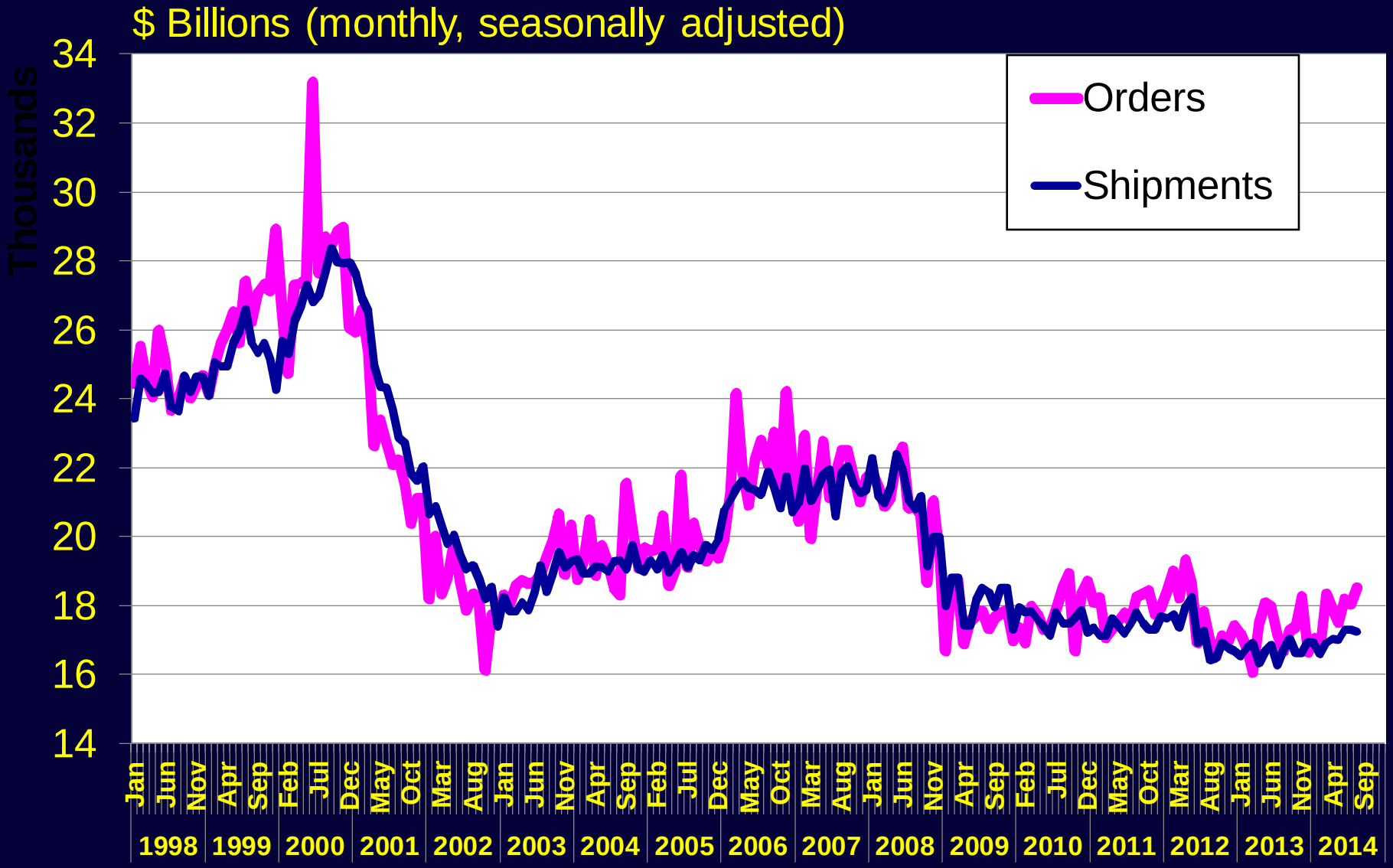


ISM, JPMorgan, Markit Economics

Chart 7

U.S. Electronic Equipment Orders & Shipments

Computer, Communications, Measurement & Control and Military

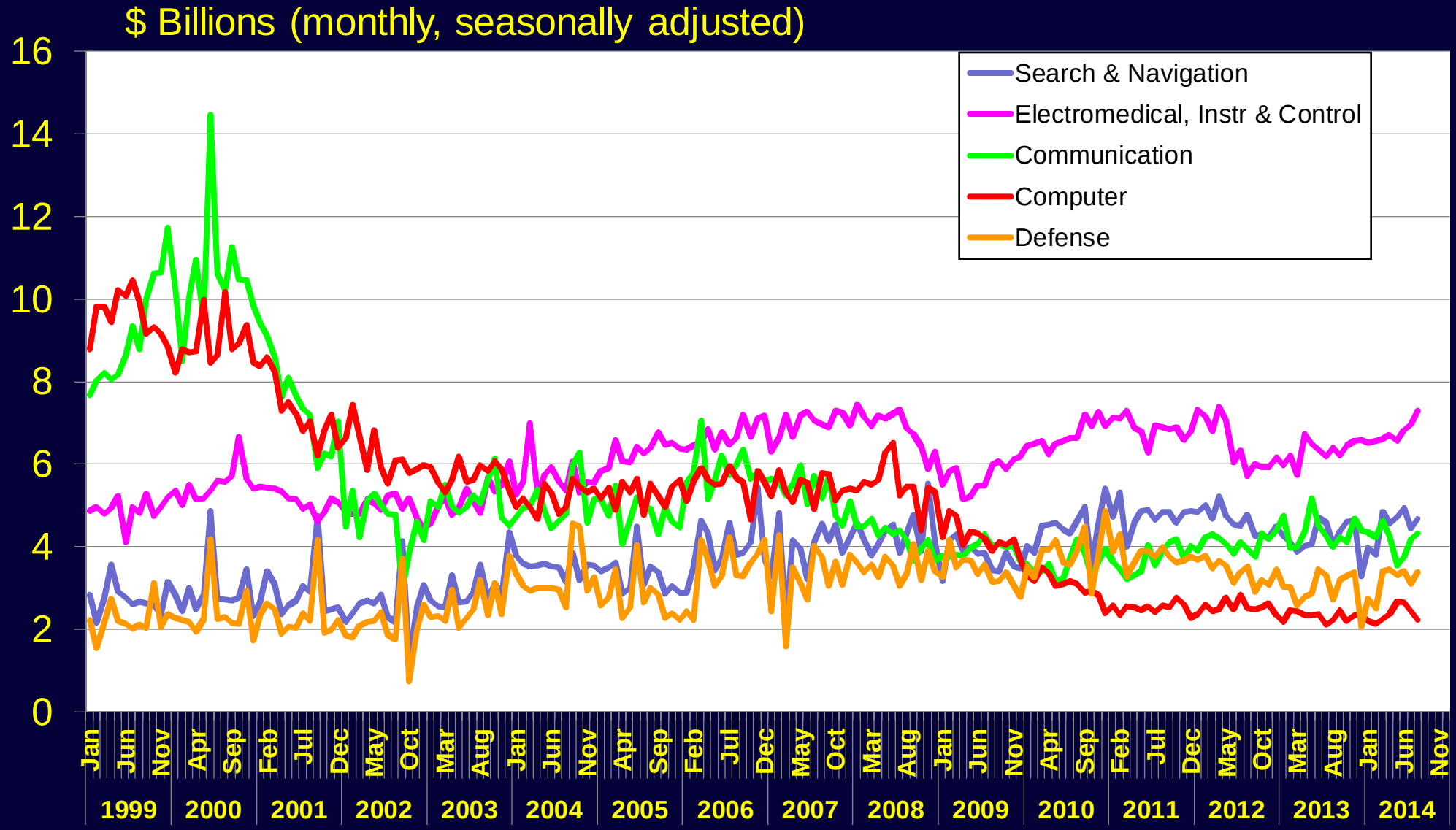


www.census.gov/indicator/www/m3/

Chart 8

U.S. Electronic Equipment Orders

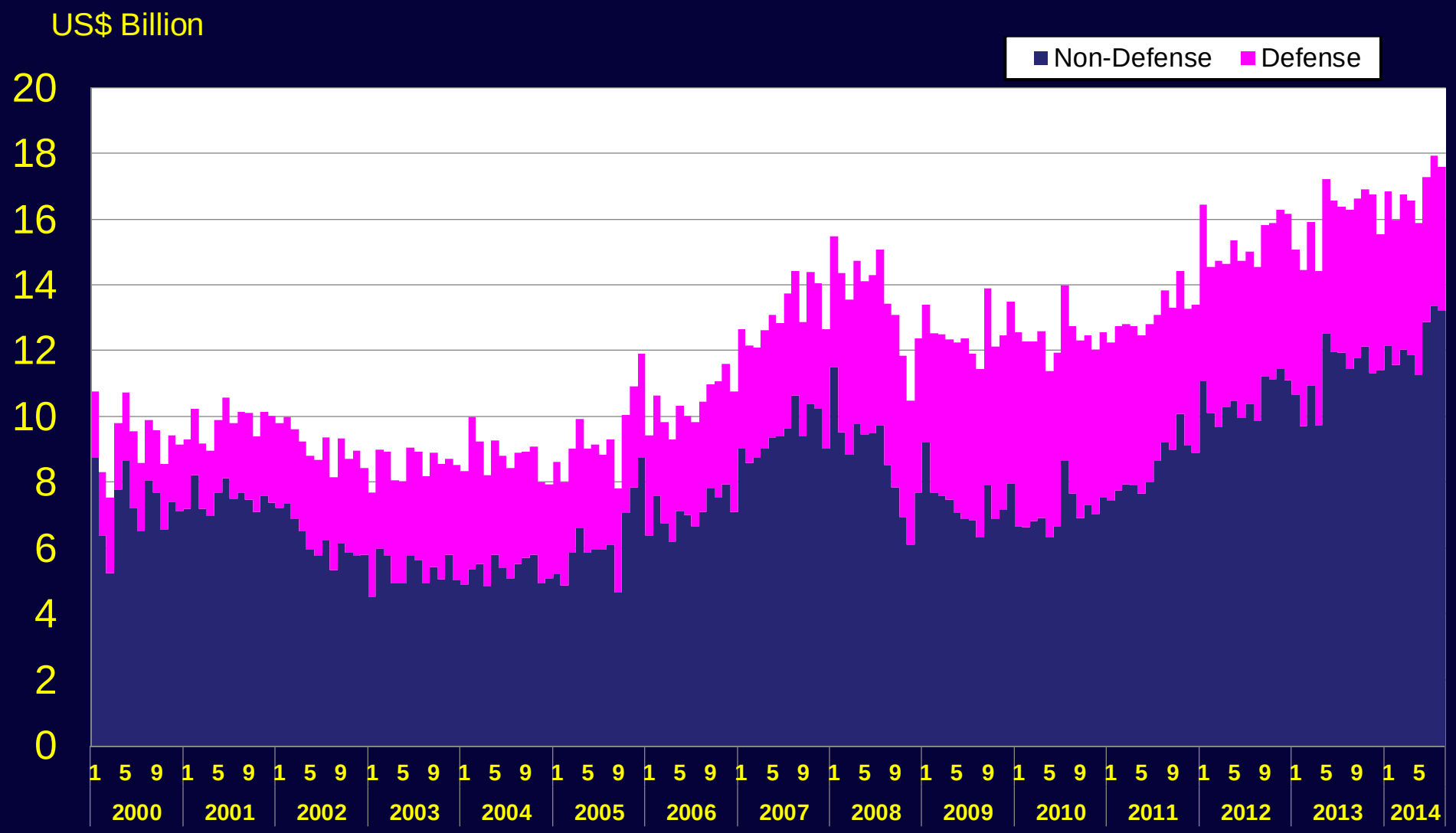
Monthly Data



www.census.gov/indicator/www/m3/

Chart 9

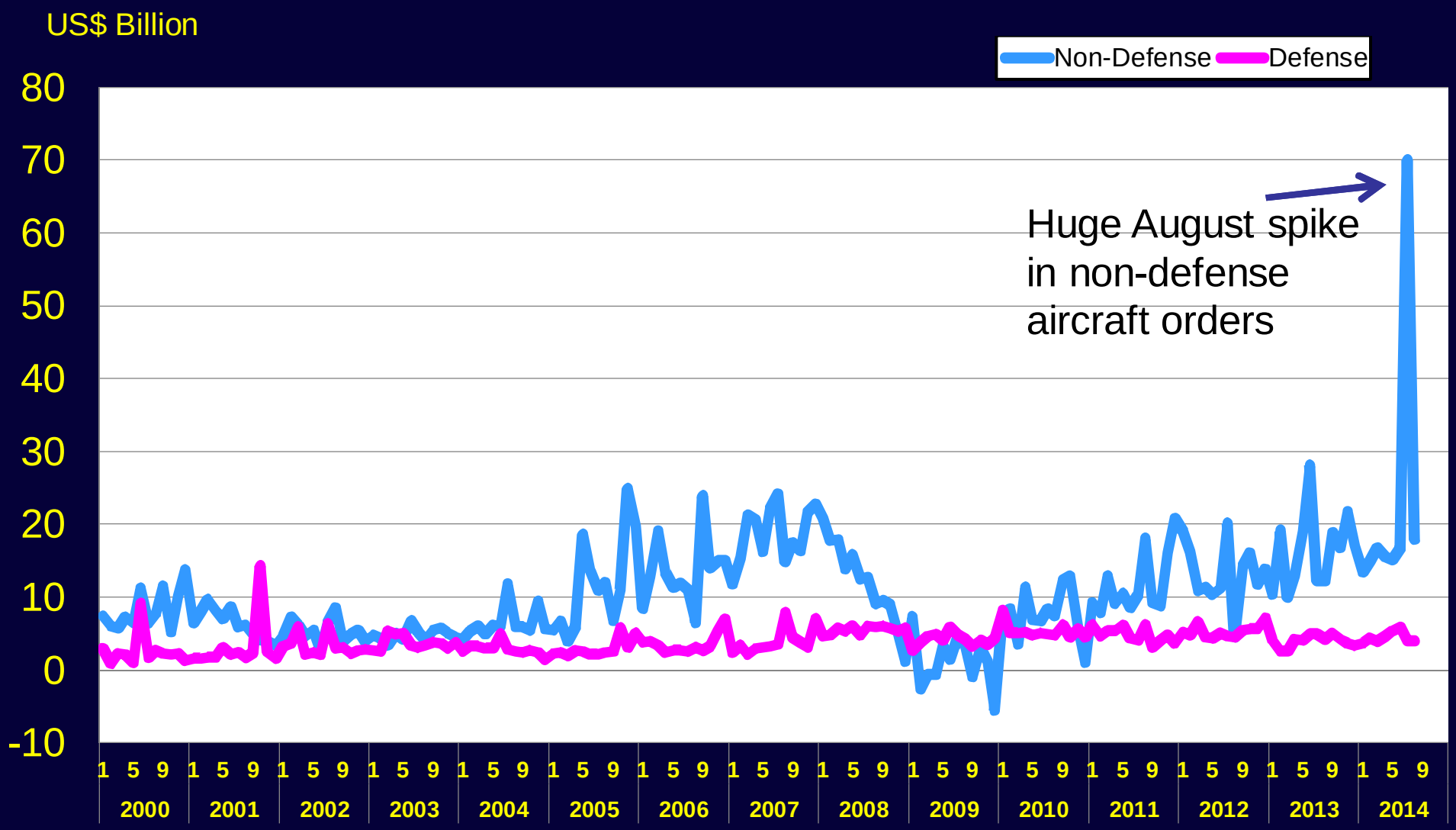
U.S. Aircraft & Parts Shipments



www.census.gov/indicator/www/m3

Chart 10

U.S. Aircraft & Parts Orders

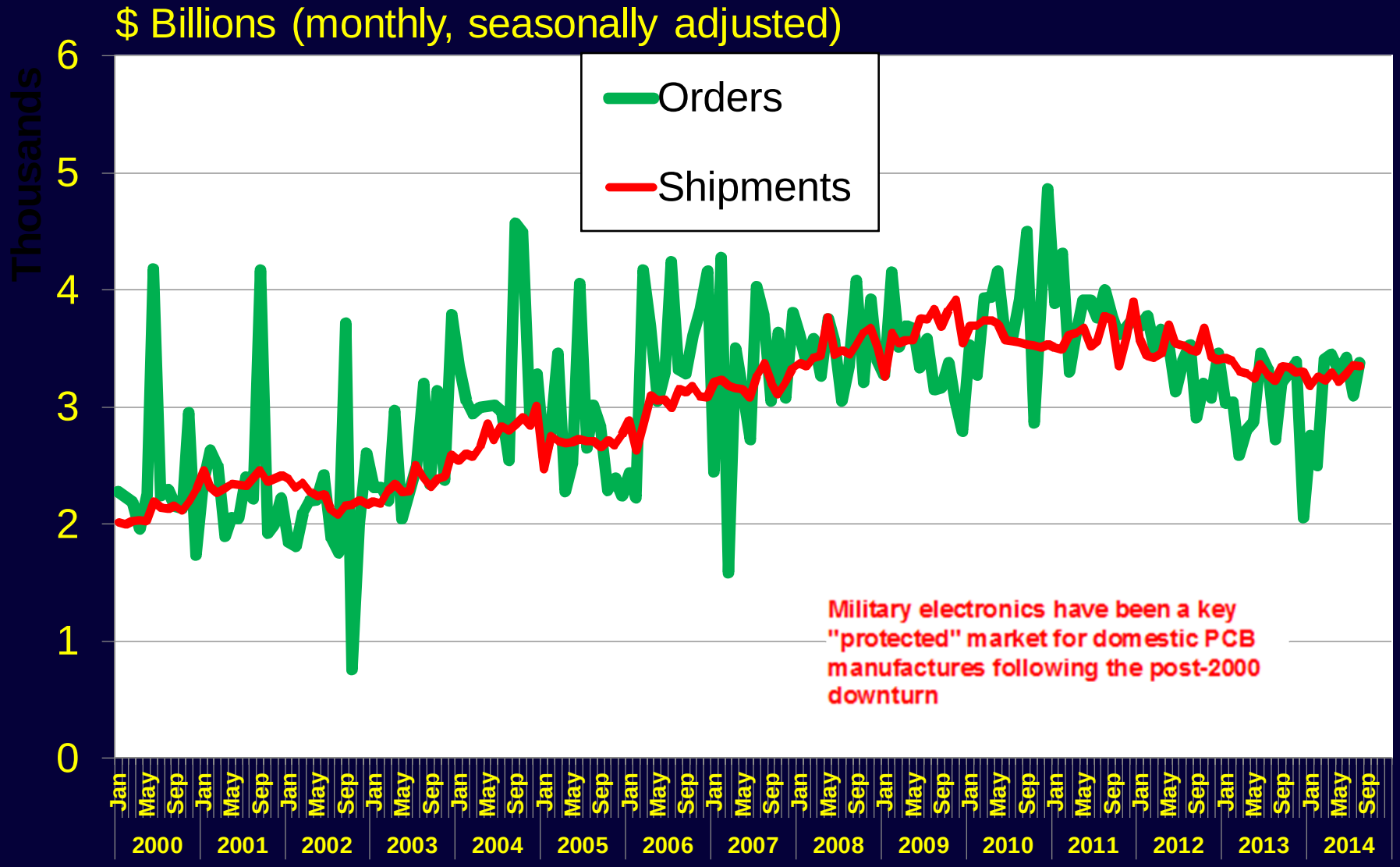


www.census.gov/indicator/www/m3

Chart 11

U.S. Military Electronics Orders & Shipments

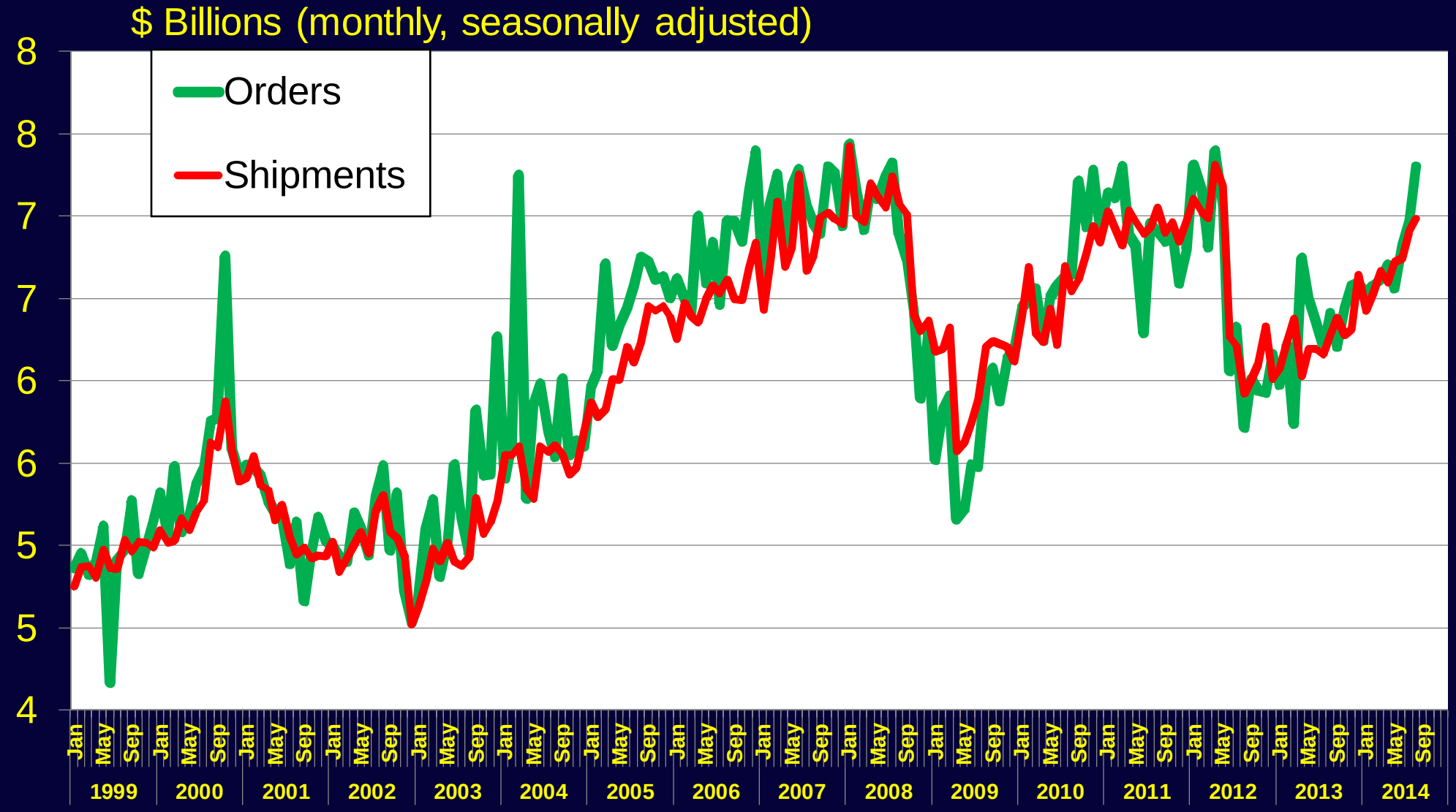
Defense Communication & Search & Navigation Equipment



www.census.gov/indicator/www/m3/

Chart 12

U.S. Electromedical, Measurement & Control Equipment Orders & Shipments

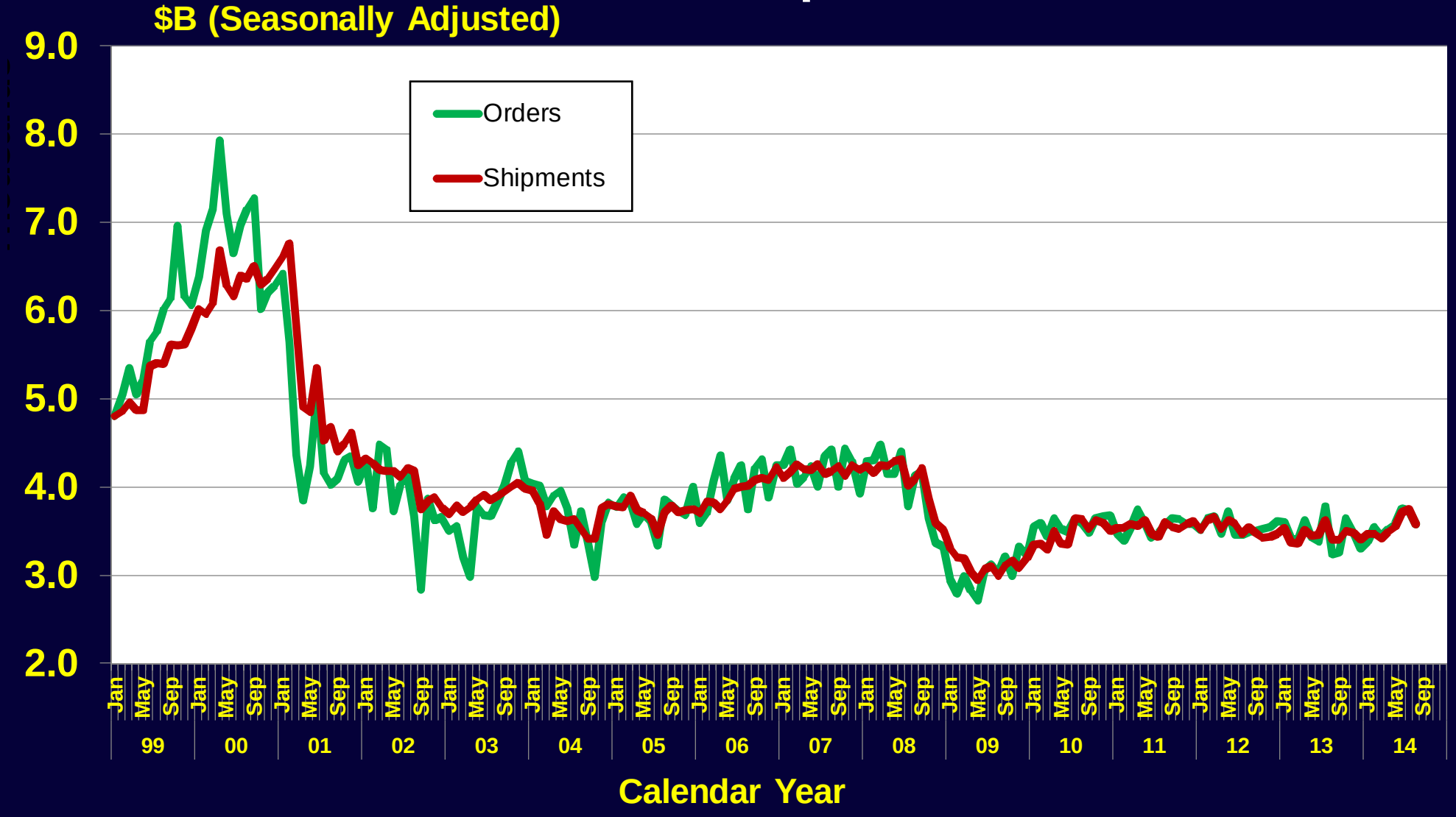


www.census.gov/indicator/www/m3/

Chart 13

U.S. Production: "Other" Electronic Components (excludes semiconductors)

Orders & Shipments



http://www.census.gov/indicator/www/m3/

Chart 14

U.S. Passive Component Orders & Shipments



U.S. Dept of Commerce

Chart 15

Present Growth Rates (%)
U.S. Economy & Electronics Industry

	Latest Month	Annual Growth	3-Month Growth
Electronic Component $			
Rigid & Flex PCB Orders (N Amer)	8/14	95.3	98.0
Rigid & Flex PCB Shipments (N Amer)	8/14	100.1	97.8
Electronic Component Orders	8/14	100.5	106.6
Electronic Component Shipments	8/14	101.7	105.2
Semiconductor Shipments to N America	8/14	113.1	107.0
U.S. Electronic Equipment Orders $			
Computer & Related	8/14	99.4	109.2
Communication	8/14	98.0	96.0
Medical, Measurement & Control	8/14	107.7	111.2
Search & Navigation	8/14	103.8	105.4
Defense Capital Goods	8/14	95.1	96.0
Military Electronics	8/14	102.2	104.0
Total Electronic Equipment	8/14	103.1	105.7
U.S. Industrial Production	8/14	103.8	104.4

NOTE: 3 month growth rates compare most recent 3 months to same 3 months one year earlier

Chart 16

Monthly Semiconductor Shipments
$ Billions (3-month average)

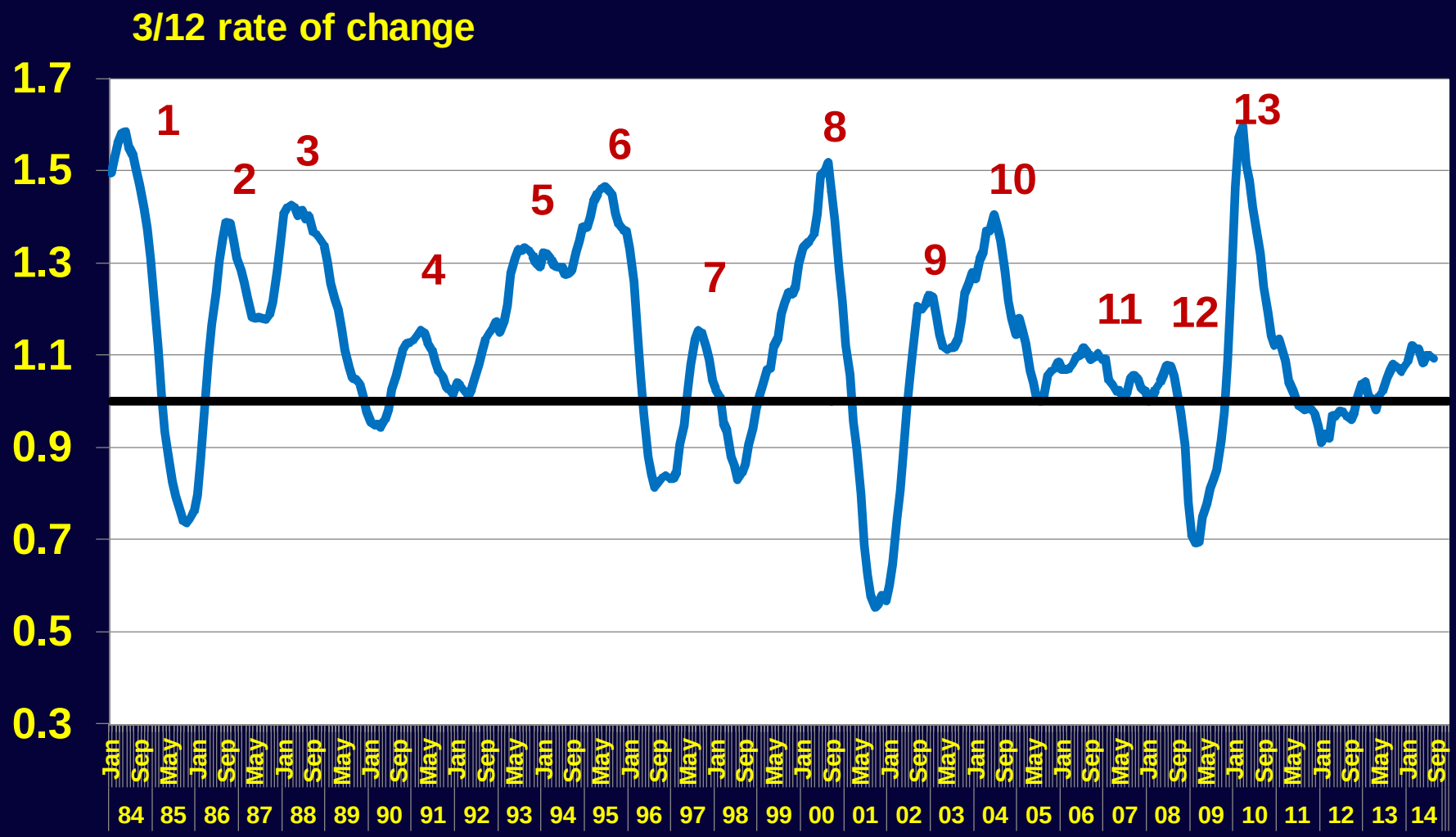
	8/13	8/14	% CH
Americas	5.19	5.55	+ 7.0%
Europe	2.91	3.23	+10.9%
Japan	3.05	2.99	- 1.7%
Asia Pacific	14.83	16.66	+12.3%
Total	25.98	28.44	+ 9.4%

SIA www.sia-online.org/

Chart 17

Global Semiconductor Shipments

3-Month Growth Rates on $ Basis

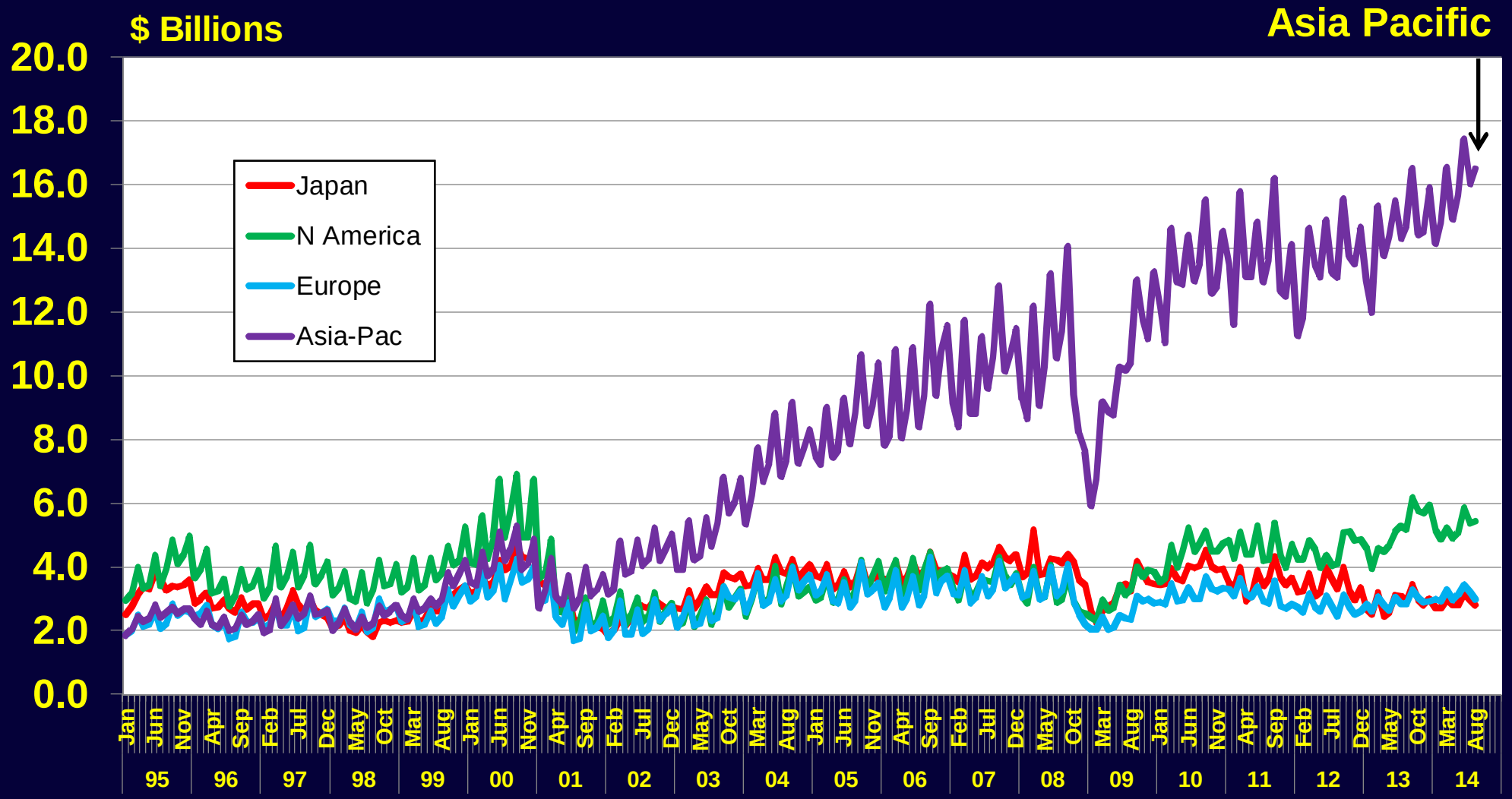


Total $ Shipments from All Countries to an Area
SIA website: www.sia-online.org/

Chart 18

Total Semiconductor Shipments to an Area

Monthly Shipments - Reporting Firms

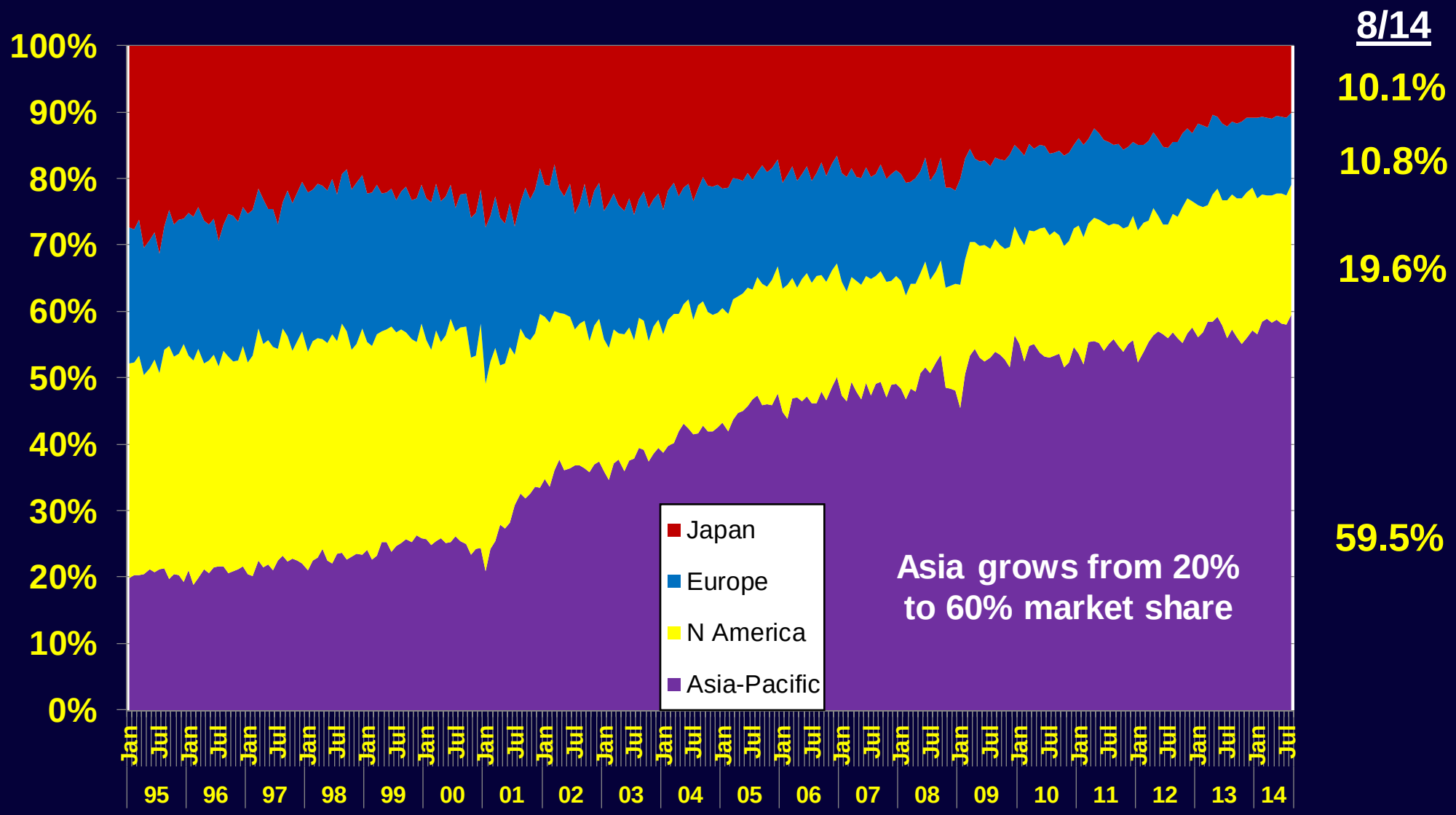


SIA website: www.sia-online.org/

Chart 19

Total Semiconductor Shipments to an Area

Monthly Shipments - Reporting Firms

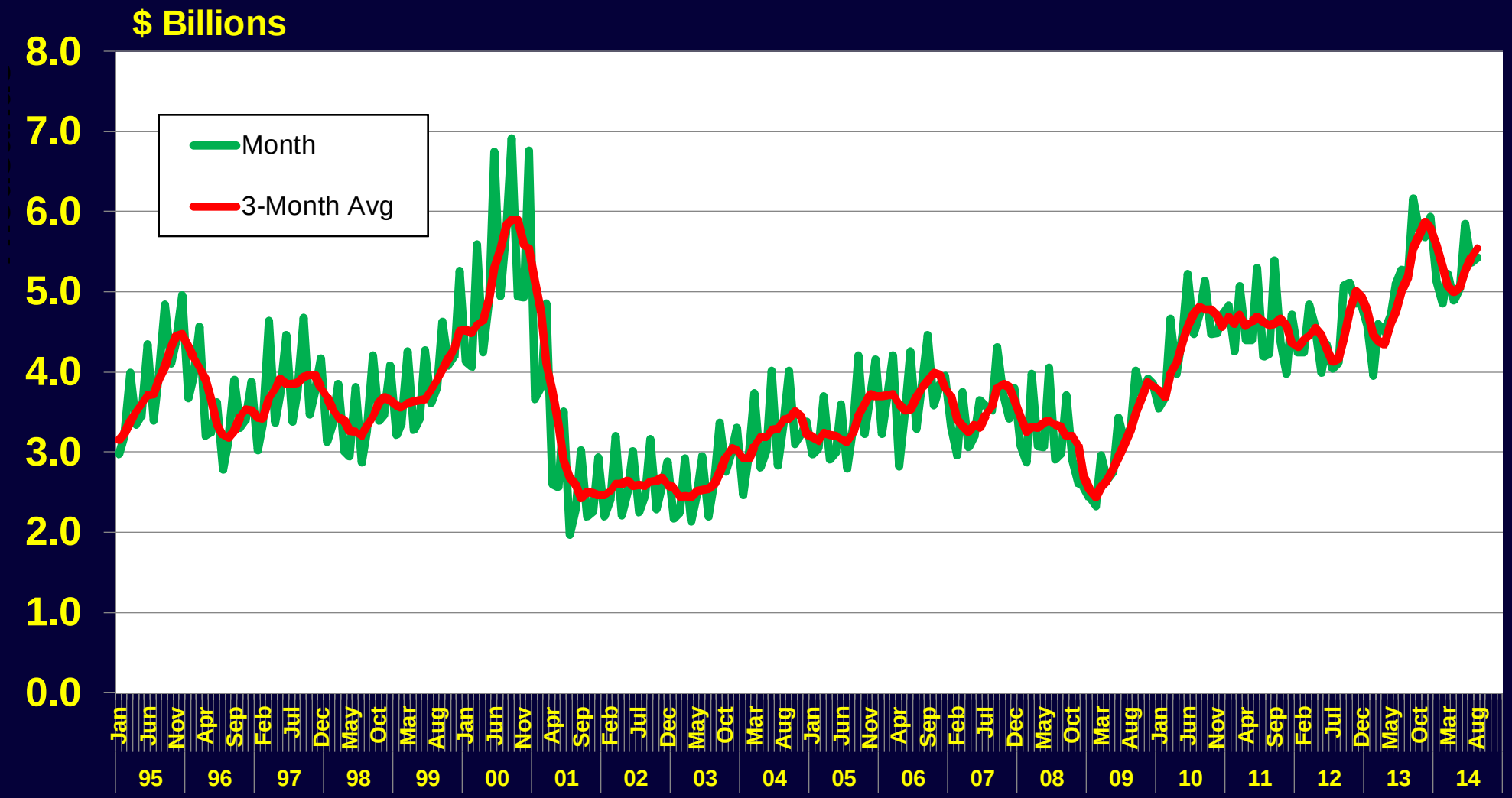


SIA website: www.sia-online.org/

Chart 20

N American Semiconductor Shipments

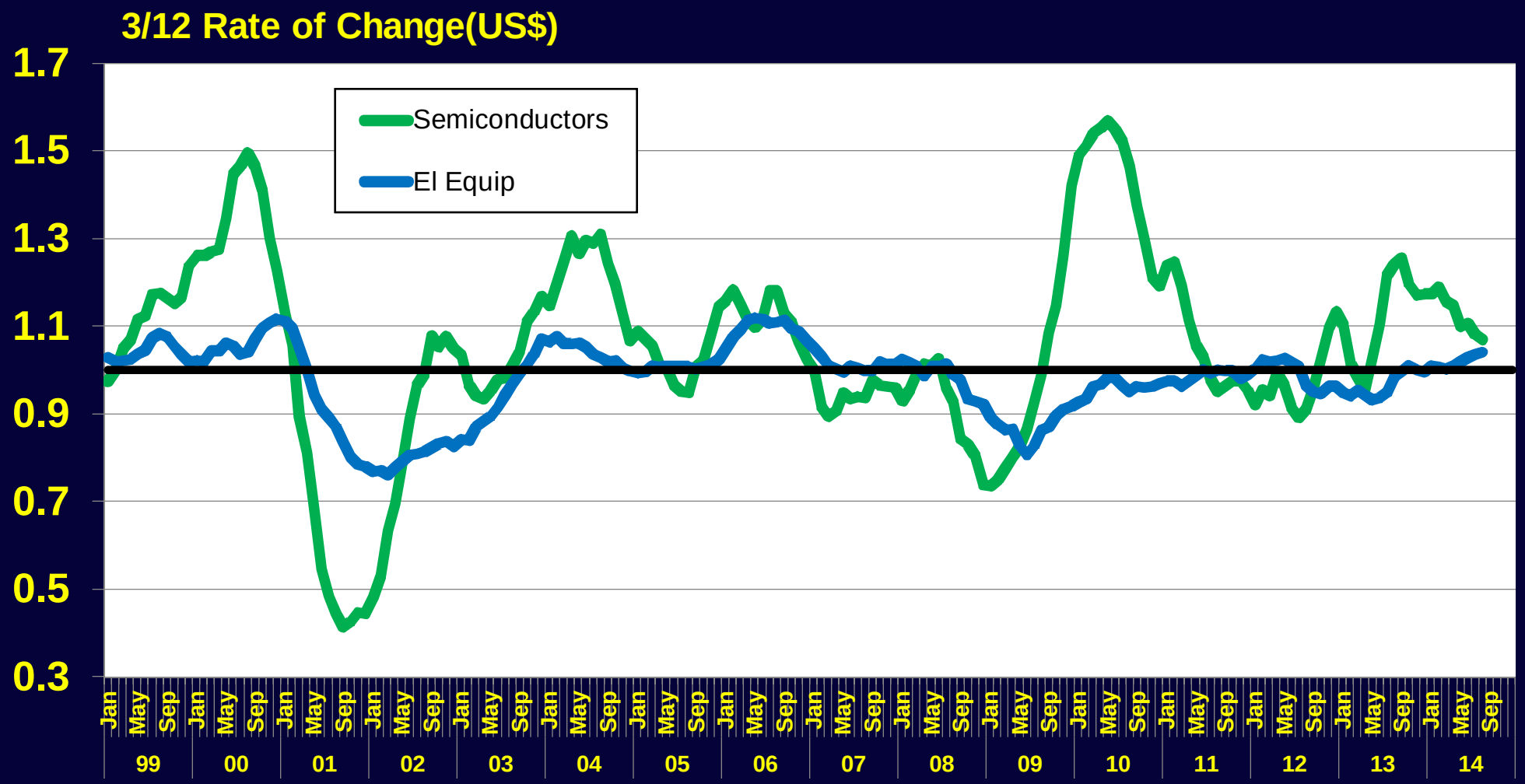
Monthly & 3-Month Average Shipments



SIA website: www.sia-online.org/

Chart 21

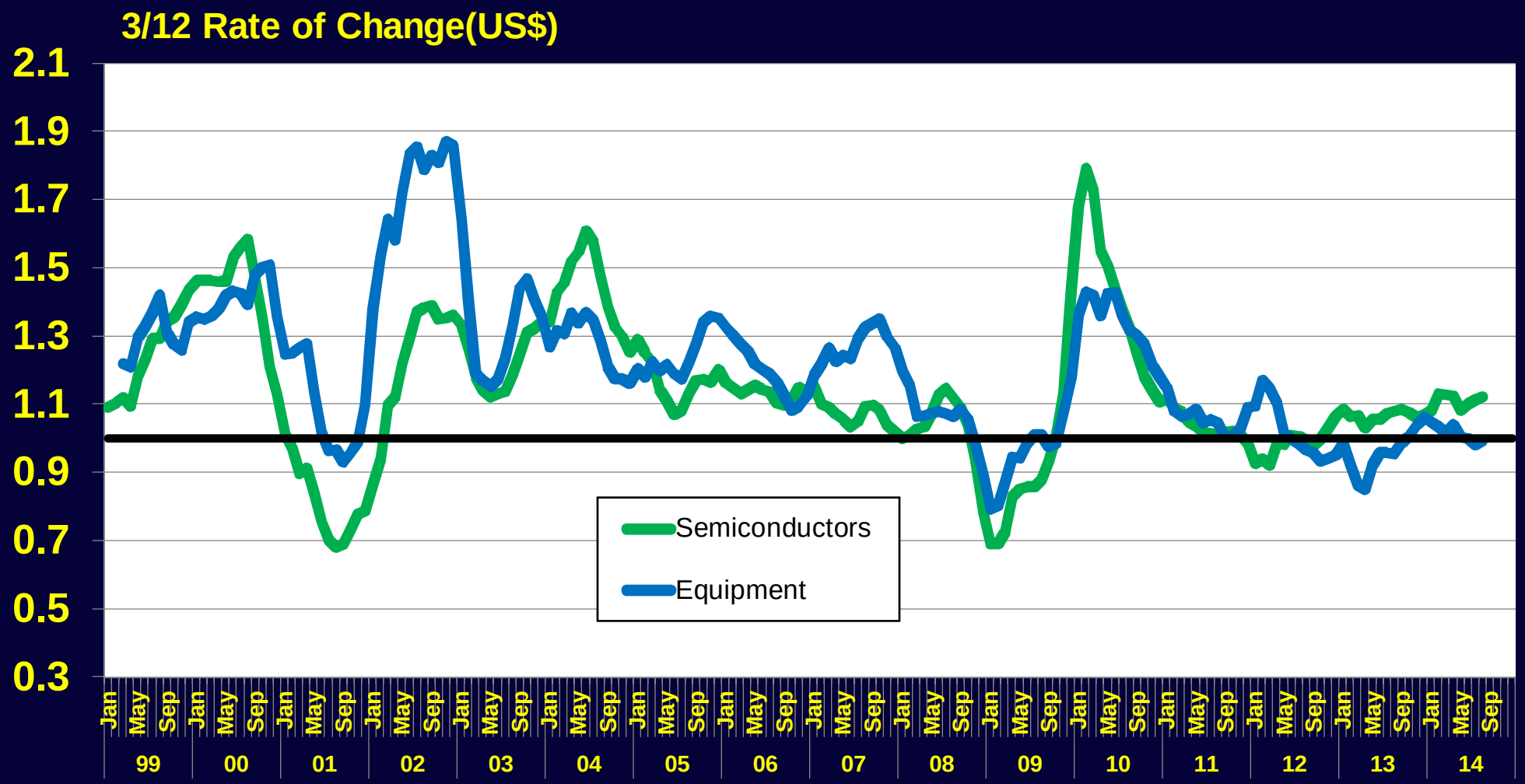
Semiconductor Shipments to N. America vs. U.S Electronic Equipment Production



Total $ Semiconductor Shipments from All Countries to N. America www.sia-online.org/
U.S. Electronic Equipment Shipments www.census.gov/indicator/www/m3/

Chart 22

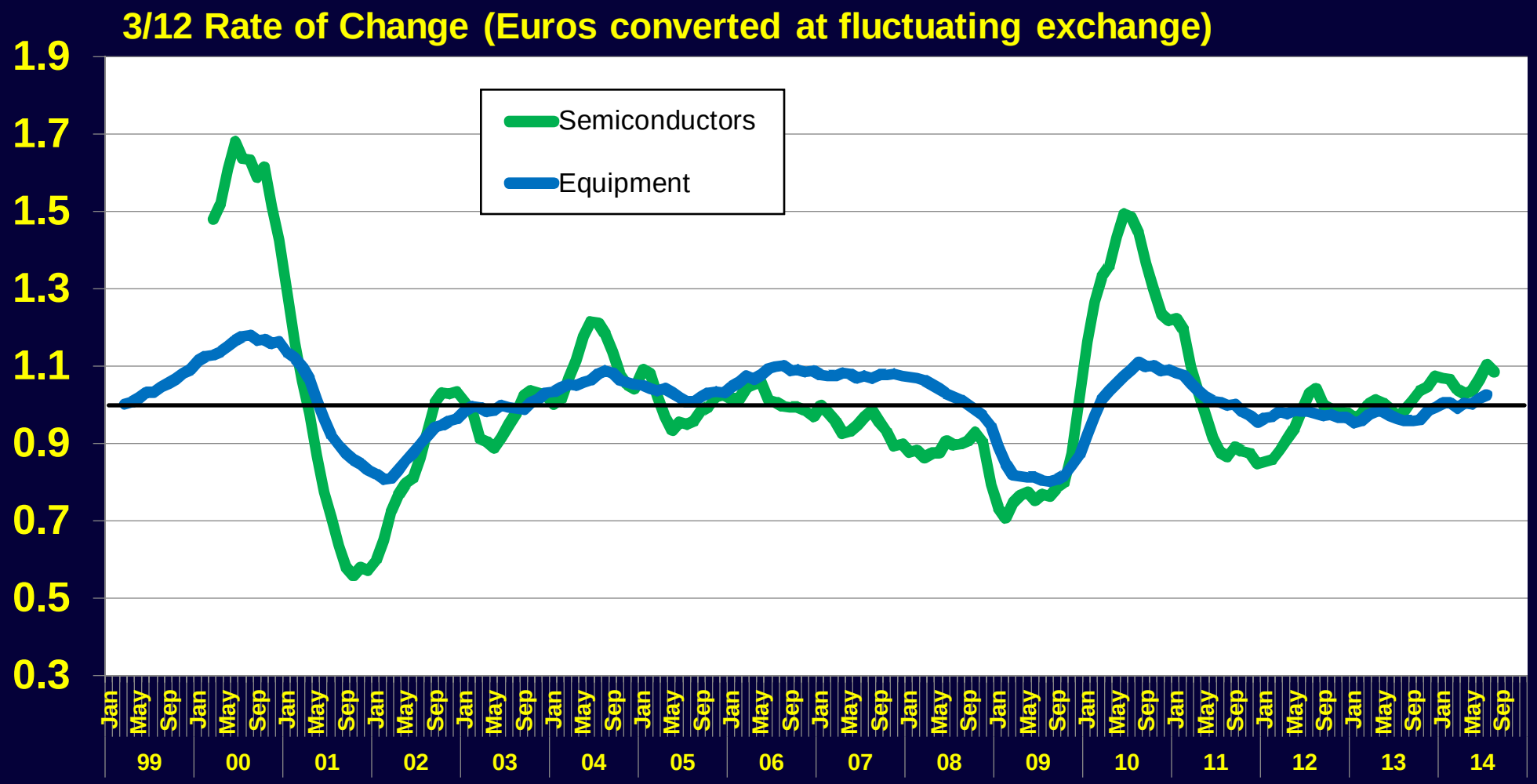
Semiconductor Shipments to Asia/Pacific vs. Taiwan/China Electronic Equipment Production



Total $ Semiconductor Shipments from All Countries to SE Asia www.sia-online.org/
101 Taiwan listed companies, often with significant manufacturing in China

Chart 23

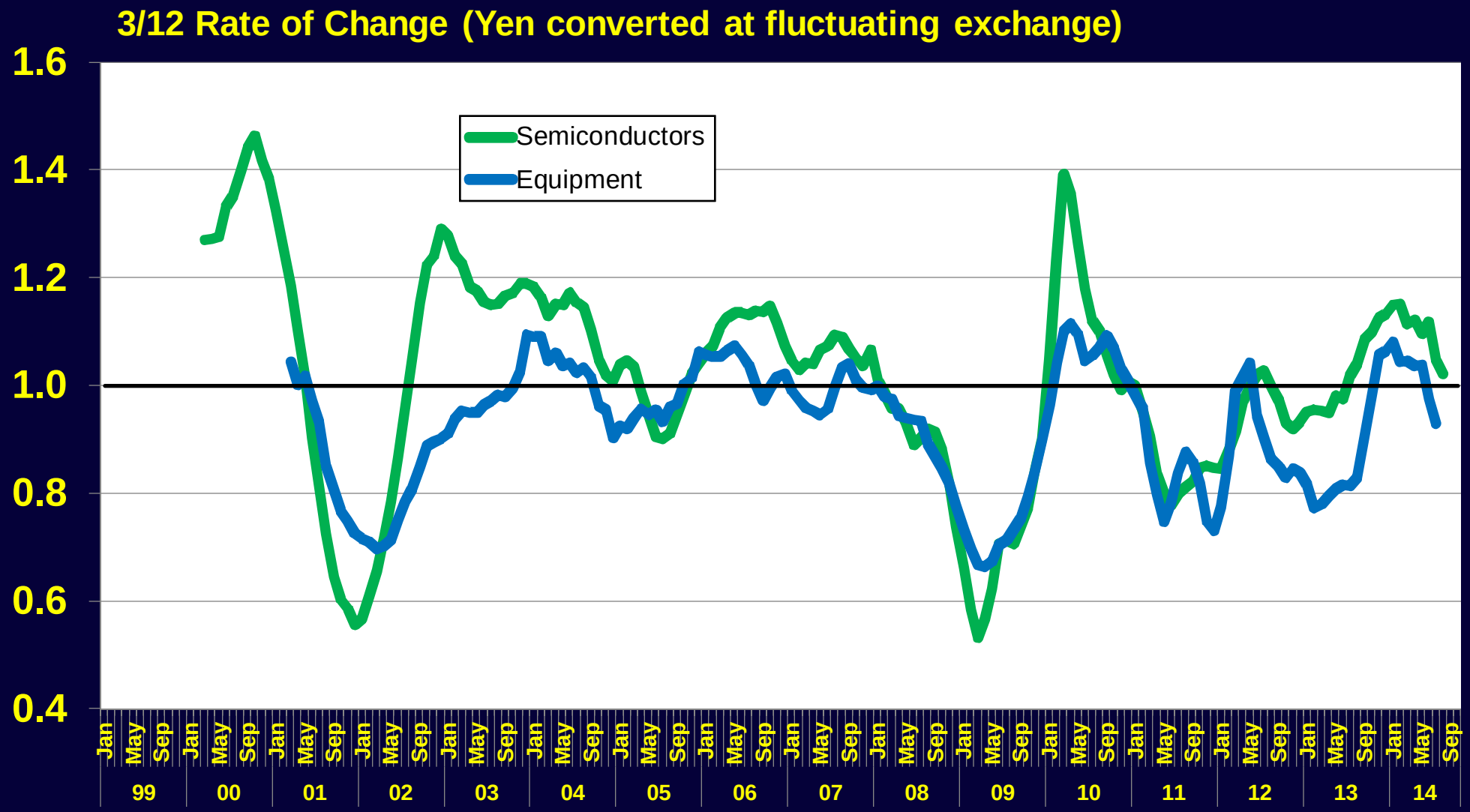
Semiconductor Shipments to Europe vs. European Electronic Equipment Production



Total $ Semiconductor Shipments from All Countries to Europe www.sia-online.org/, Eurostat class C26, EU27, European Computer, Electronic & Optical products Production

Chart 24

Semiconductor Shipments to Japan vs. Japanese Electronic Equipment Production



Total $ Semiconductor Shipments from All Countries to Japan www.sia-online.org/, JEITA www.jeita.or.jp/

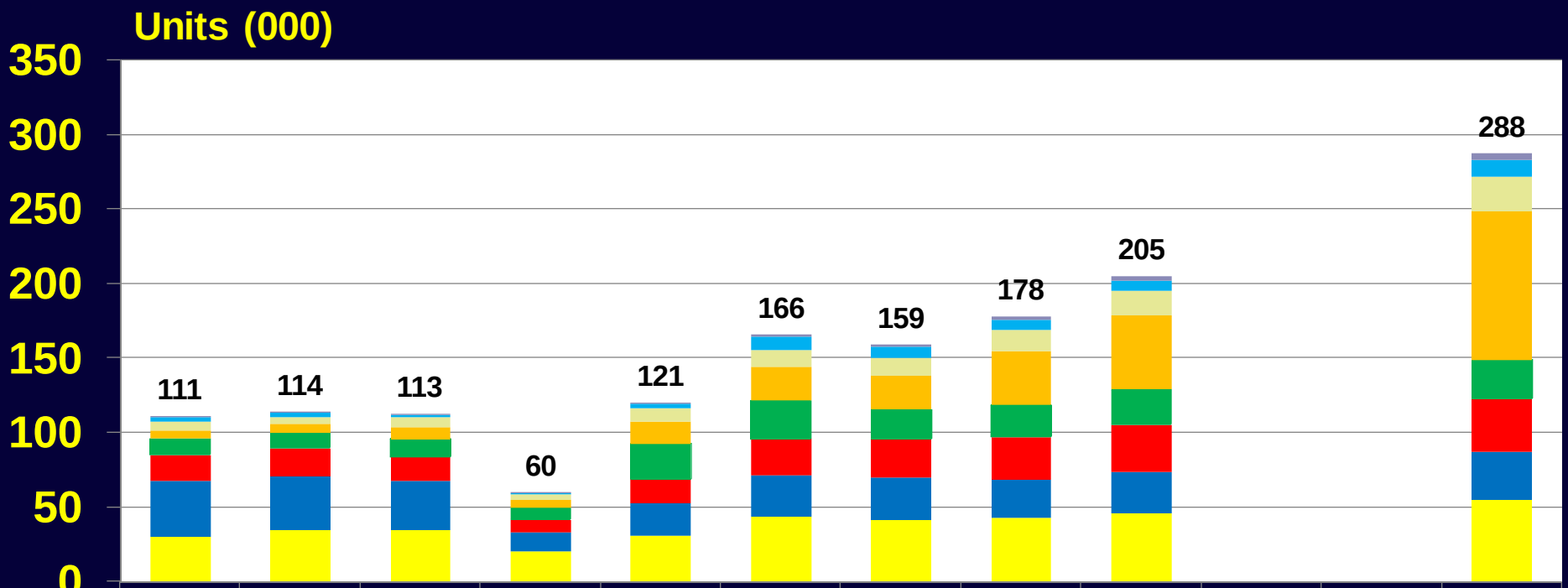
Chart 25

Wearable Computing Device Shipments by Category Units (millions)

	2013	2014	2015
Wearable Cameras	6.6	13.6	15.8
Smart Glasses	0.0	2.1	10.6
Smart Watches	1.2	7.4	24.9
Healthcare	13.5	22.6	34.3
Sports/Activity Trackers	32.5	42.6	57.4
Wearable 3D Motion Trackers	N/A	0.9	2.0
Smart Clothing	0.0	0.7	1.2
Total	53.9	90.0	164.2

Chart 26

Industrial Robots: Sales by Region

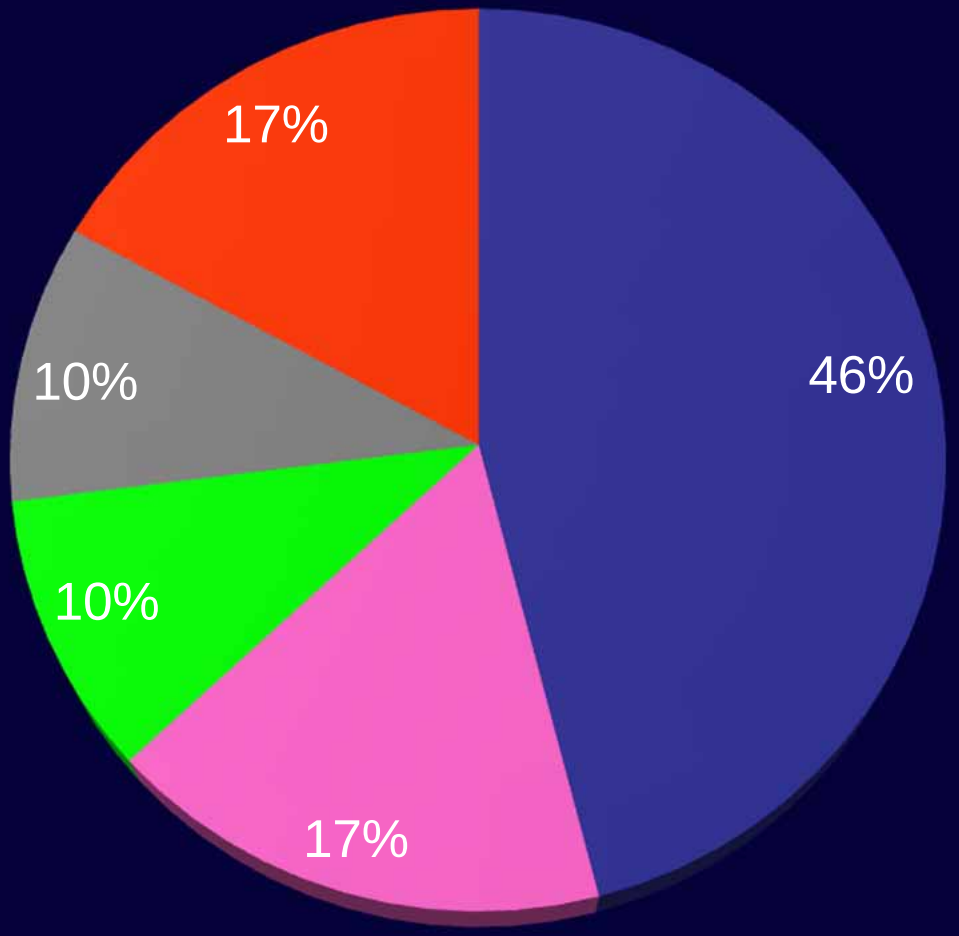


	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total	111.1	114.4	113.0	60.0	120.6	166.0	159.3	178.1	205.0			288.0
India	0.8	0.9	0.9	0.4	0.8	1.5	1.5	1.9	2.5			5.0
ROW	2.6	2.8	1.7	1.0	3.7	9.2	7.2	7.3	7.5			11.0
Asia Pacific	5.9	4.3	6.8	3.6	8.7	11.1	12.0	13.9	16.0			23.0
China	5.8	6.6	7.9	5.5	15.0	22.6	23.0	36.6	50.0			100.0
S Korea	10.8	10.1	11.6	7.8	23.5	25.5	19.4	21.3	23.5			26.0
N America	17.4	18.7	16.2	8.4	16.4	24.3	26.3	28.7	31.5			36.0
Japan	37.4	36.1	33.1	12.8	21.9	27.9	28.7	25.1	28.0			32.0
Europe	30.4	34.9	34.7	20.5	30.7	43.8	41.2	43.3	46.0			55.0

IFR 6/14 & prior

Chart 27

Converged Data Center Network Adapter 2Q'14 Global Revenue



2Q'14 Total: $87.7 Million