

Chart 1

Global "Purchasing Managers" Index

Diffusion Index, >50 = Growth

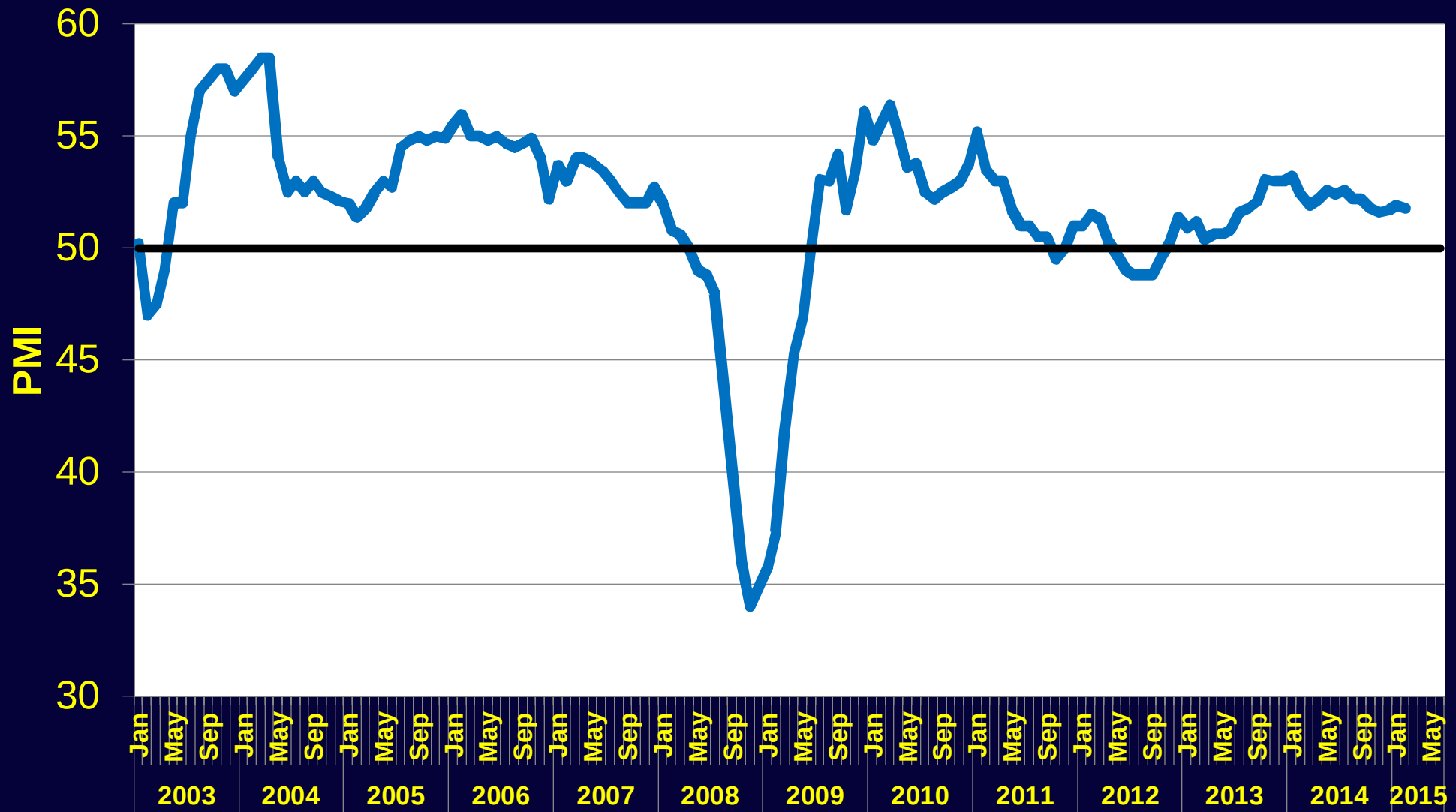
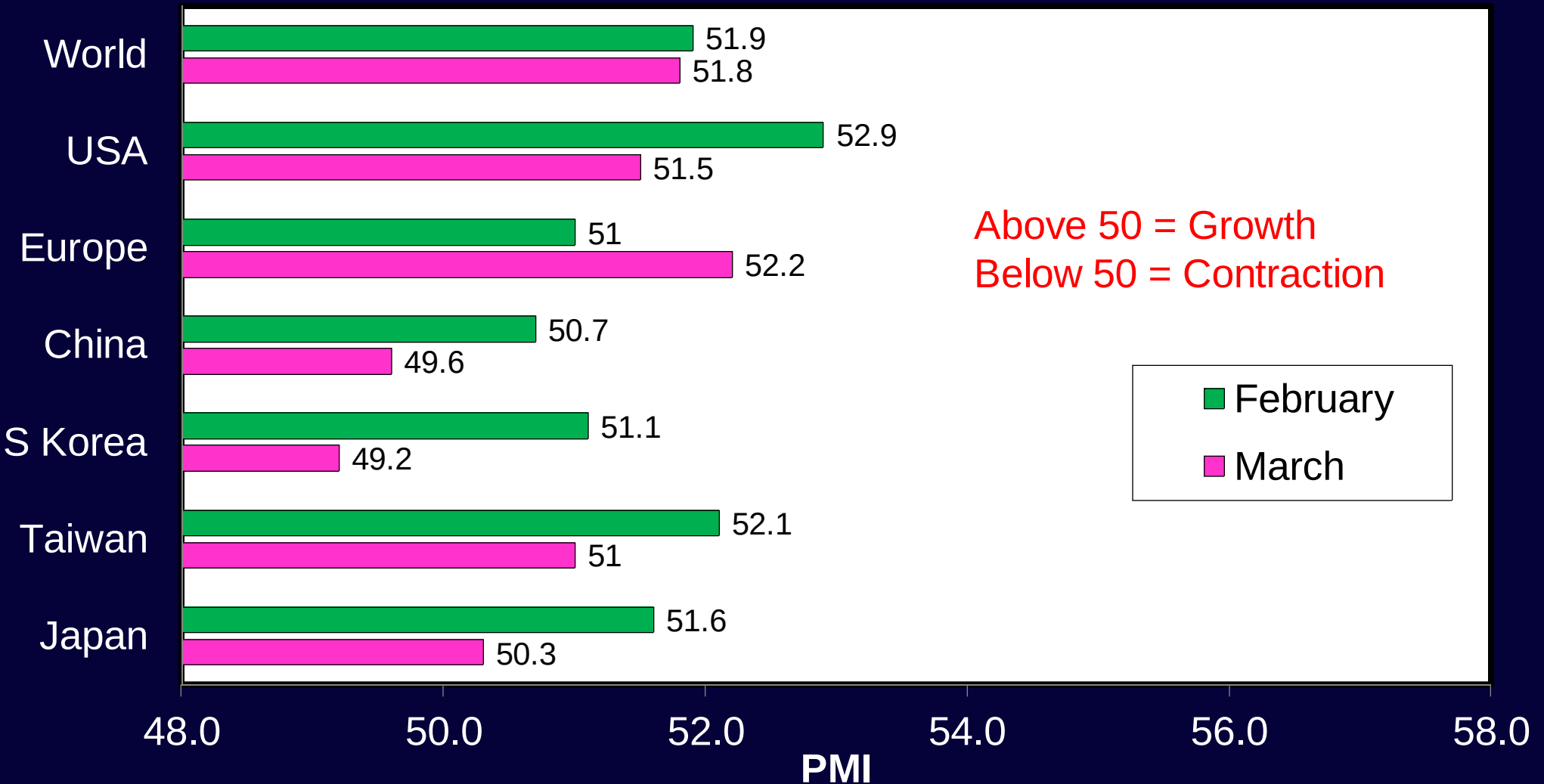


Chart 2

Purchasing Managers' Indices February vs. March 2015



Markit Economics, JPMorgan and ISM

Asian Purchasing Managers' Indices February vs. March 2015

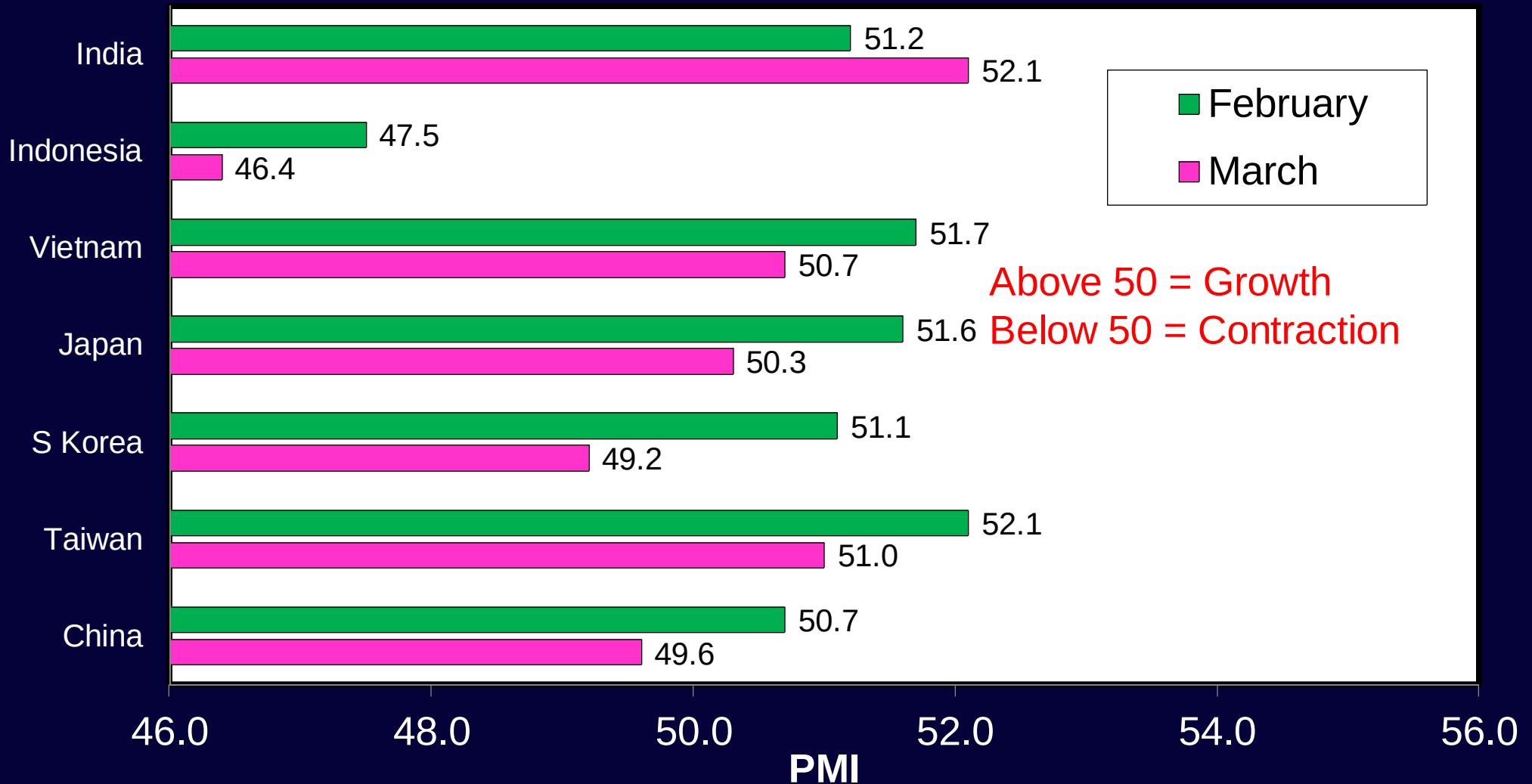


Chart 4

European Purchasing Managers' Indices February vs. March 2015

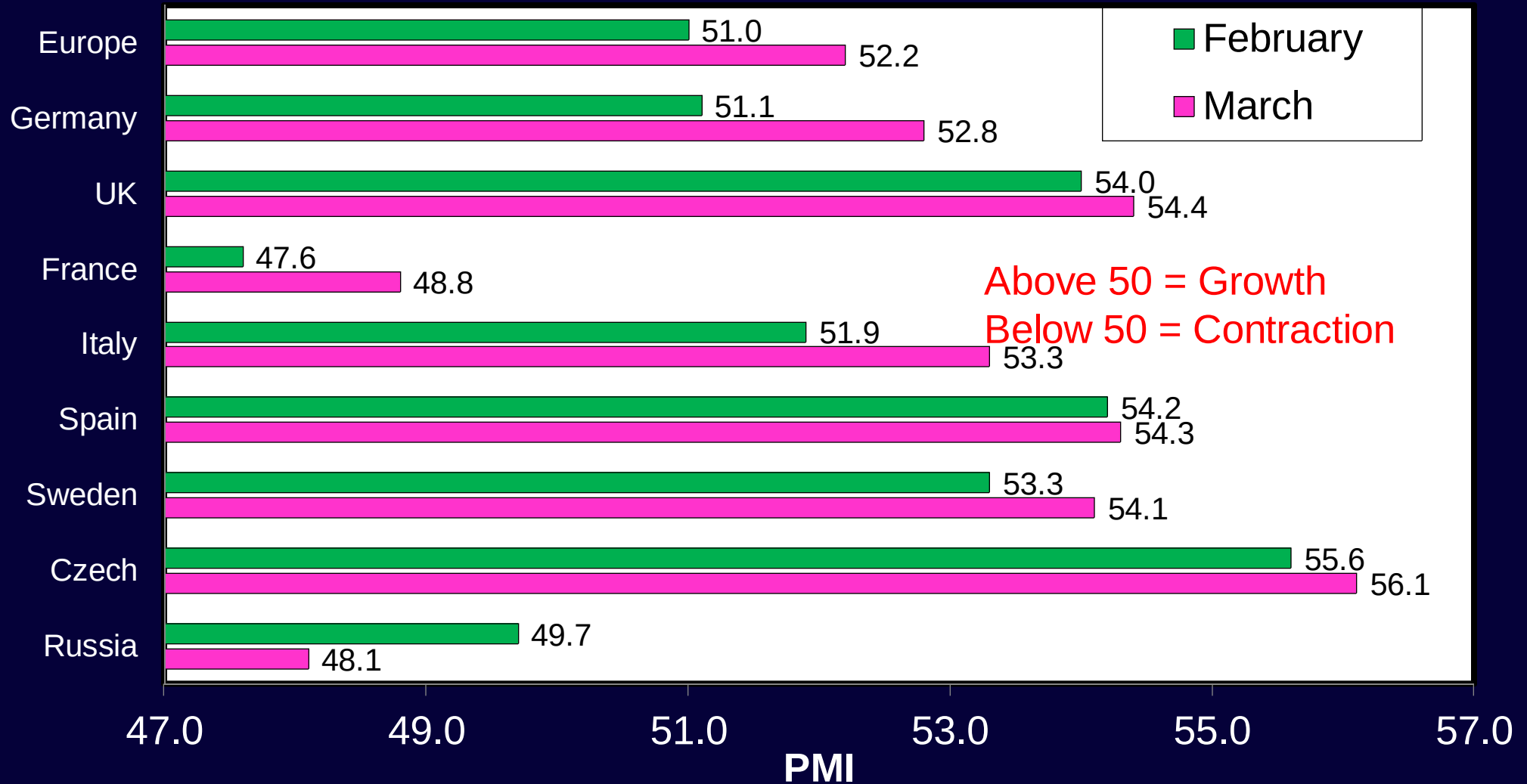
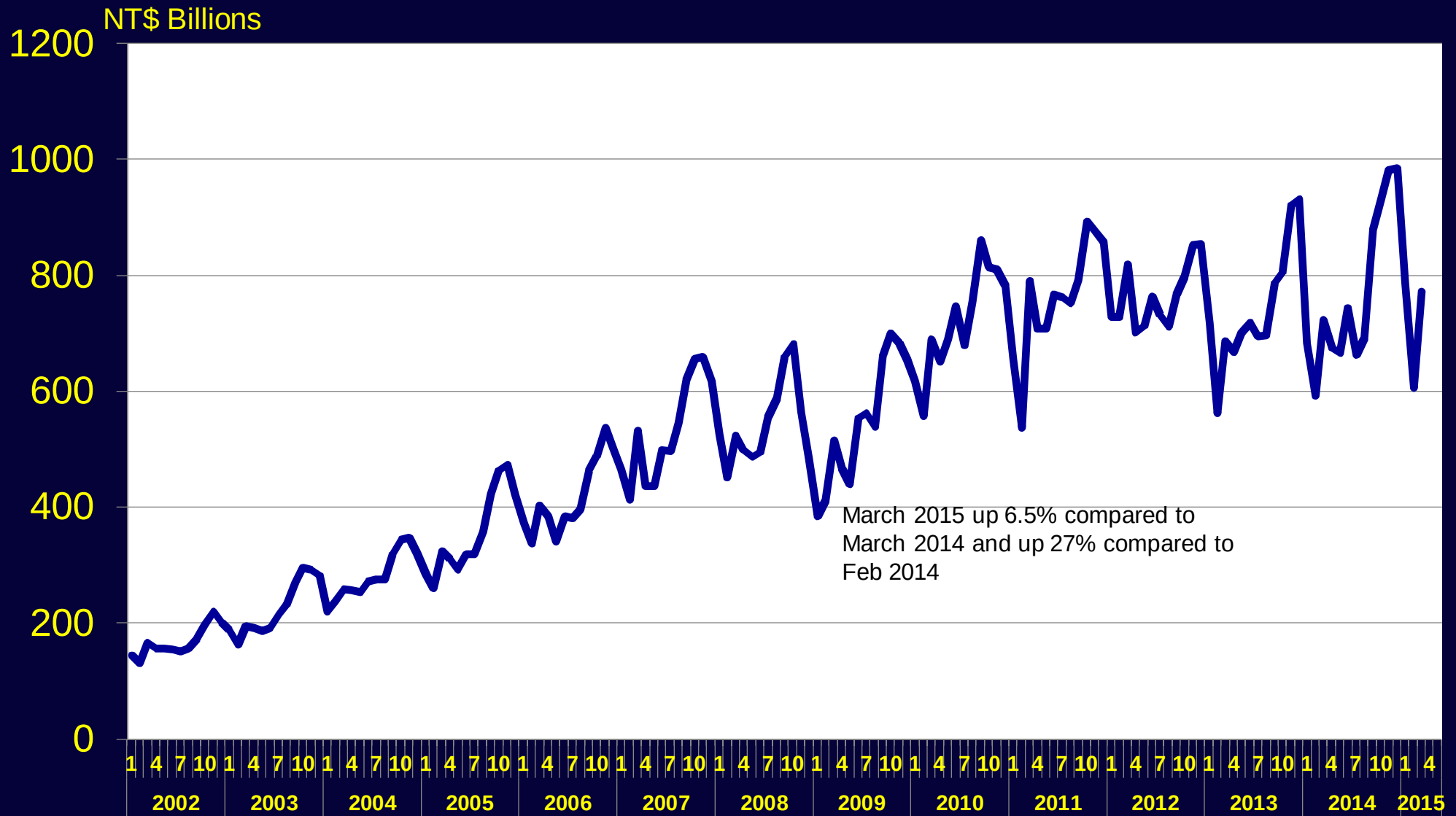


Chart 5

Taiwan/China Electronic Equipment Producers Composite of 101 Manufacturers Consolidated Revenue

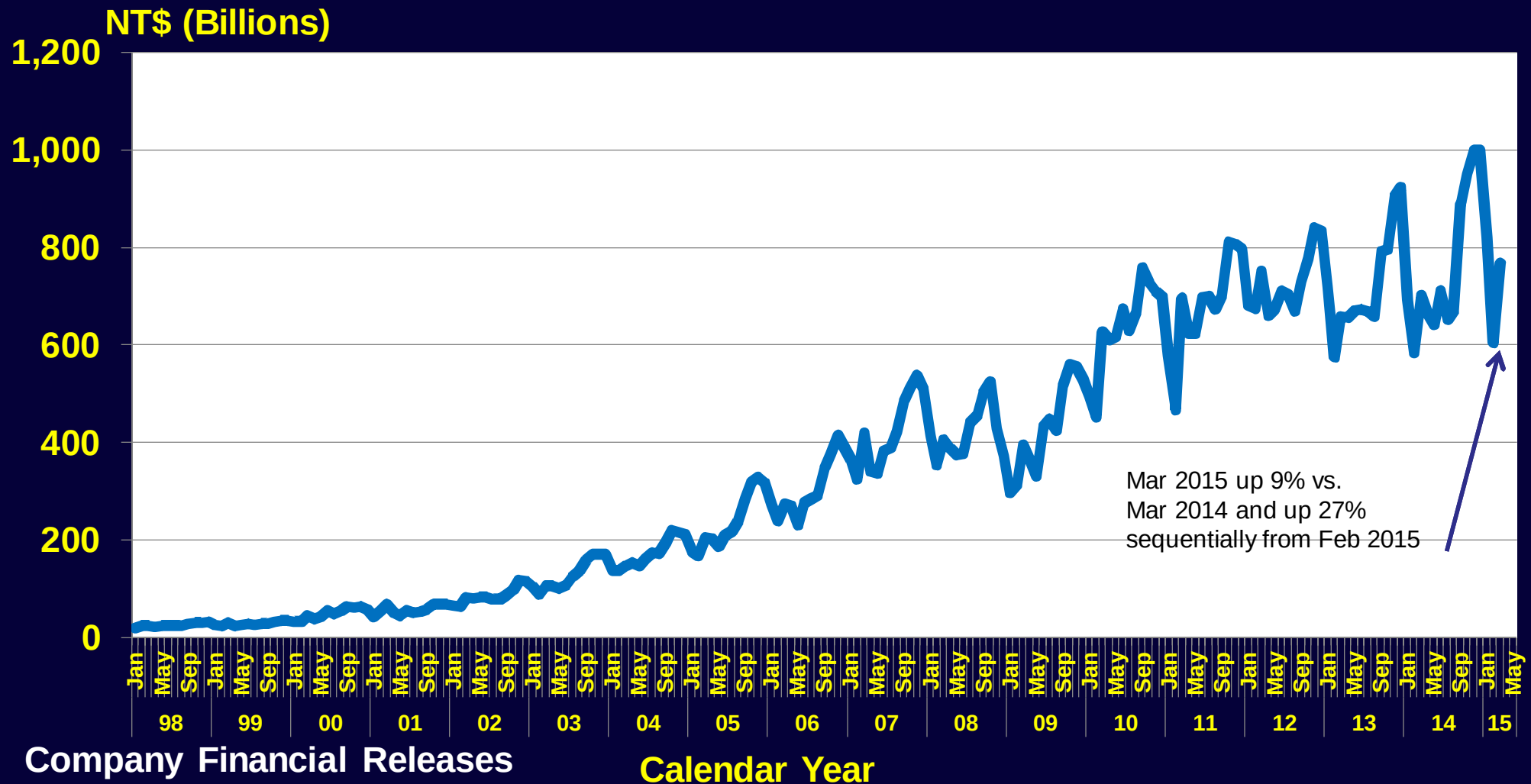


Taiwan listed companies, often with significant manufacturing in China

Chart 6

Taiwan ODM Companies

Composite Sales of 11 Large Manufacturers



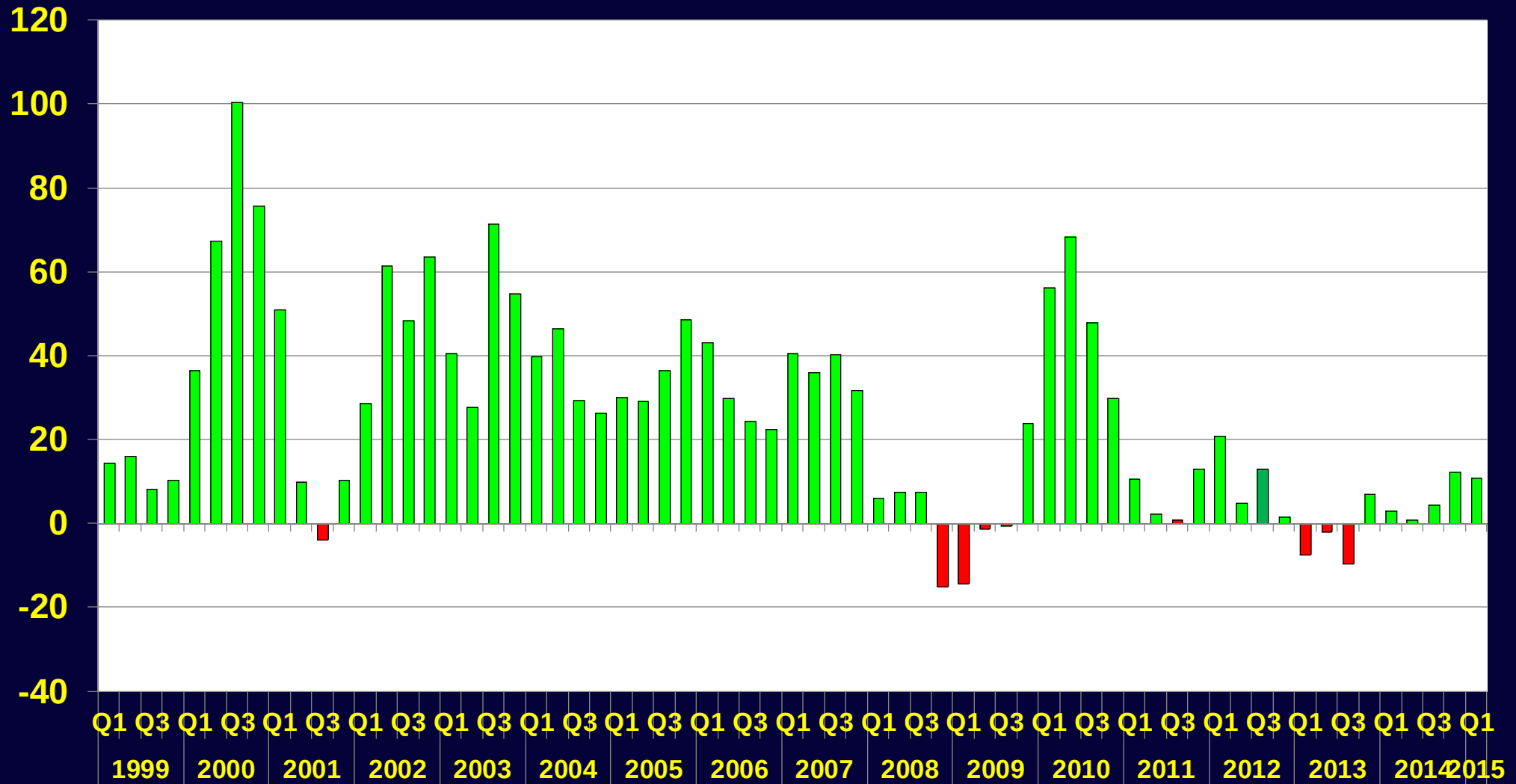
Asustek Computer, Chei Mei, Compal Electronics, Foxconn, Chimei Innolux, Inventec, Inventec Appliance, Lite On Technology, Mitac International, Pegatron, Quanta Computer, Wistron, Chei Mei Display replacing Chei Mei & Innolux Display 3/10 & later

Chart 7

Large ODM Companies

Composite of 10 Public Manufacturers

Quarterly Revenue Growth



Asustek Computer, Compal Electronics, Foxconn, Chimei Innolux, Inventec, Inventec Appliance, Lite On Technology, Mitac International, Pegatron, Quanta Computer, Wistron

Chart 8

Taiwan Wafer Foundries

Composite of 14 Manufacturers



VIA Technologies, Advance Microelectronics, Advance Wireless Semiconductor, Epasil Technologies, Inotera Memories, Macronix Intl, Mosel Vitelic, Powerchip Semi, Precision Silicon, ProMOS Tech, TSMC, United Microelectronics, Vanguard International Semi, Winbond Electronics

Chart 9

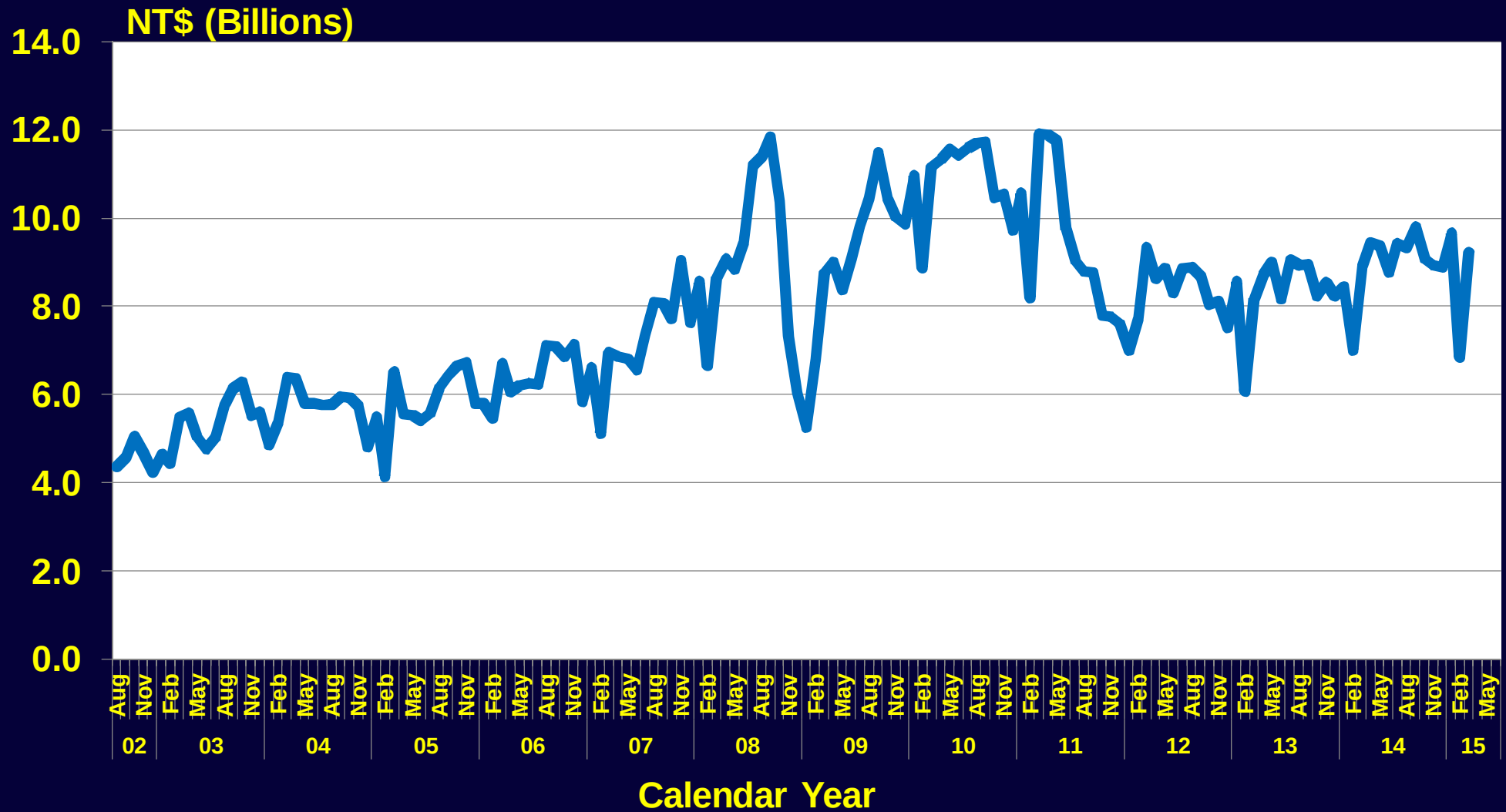
Taiwan Package & Test Companies Composite of 20 Manufacturers



ASE, Ardentec, ChipMOS Tech, Chipbond Tech, E'dale Tech, Formosa, Advance Tech, Fupo Elec, Greatek Elec, International Semiconductor Tech, King Yuan Elec, Lingsen Precision, Orient Semiconductor, Powertech Tech, Signality System, Sigurg Microelectronics, SPIL, Thalin Semiconductor, Vate Tech, Walton Advanced Tech

Chart 10

Taiwan Passive Component Companies Composite of 25 Manufacturers



Chilsin Electronics, Cyntec, (FCE) Feei Cheng Enterprise, Holy Stone Enterprise, 3H (Honey Hope Honesty Enterprise), HJC (Hua Jung Components), Inpaq, Jaan Chem Technological, Kaimei Electronic, King Core Electronics, Laser Tek, Leatec Fine Ceramics, Lelon Electronics, Linton Technology, PTTC (Polytronics Technology Corp), PDC (Prosperity Dielectrics Co), Ralec Electronic, Ta-I Technology, Taiwan Alpha Electronic, Team Young Advanced Ceramics, Teapo Electronic, Thinking Electronic Industrial, WTC (Walsin Technology Corp), Yageo, YCTC (Yeh-Chiang Technology Corp)

Chart 11

Taiwan Memory Companies Composite of 8 Manufacturers



Silicon Integrated Systems, Inotera Memories, Macronix Intl, Mosel Vitelic, NanYa Tech, Powerchip Semiconductor, ProMOS, Winbond Elec

Chart 12

Taiwan Solar/Photovoltaic Panel Companies Composite of 27 Manufacturers



Acter, Big Sun Energy Technology, Chen Full Intl, Danen Technology, Daxon Technology, DeSolar, Delta Electronics, e_TON Solar Tec, Invetec Group, Eversol, Gigasolar materials, Gintech, Green Energy Technology (GET), Higher Way Elec, Kenmec Mechanical, Ligitek, Motech, Neo Solar Power, Phoenixtec Power Co (PPC), Powermate, Precision Silicon, Sino-American Silicon Products (SAS), Solar Applied Materials Technology, Solartech Energy Corp, Sunrise Global Solar Energy, Sysgration, Tainenergy Tech, Tera Autotec, Tyntek, Wafer Works, Wholetech System Hitech

Chart 13

Taiwan Rigid & Flex PCB Shipments

Broad Composite of 46 Taiwan-listed Manufacturers

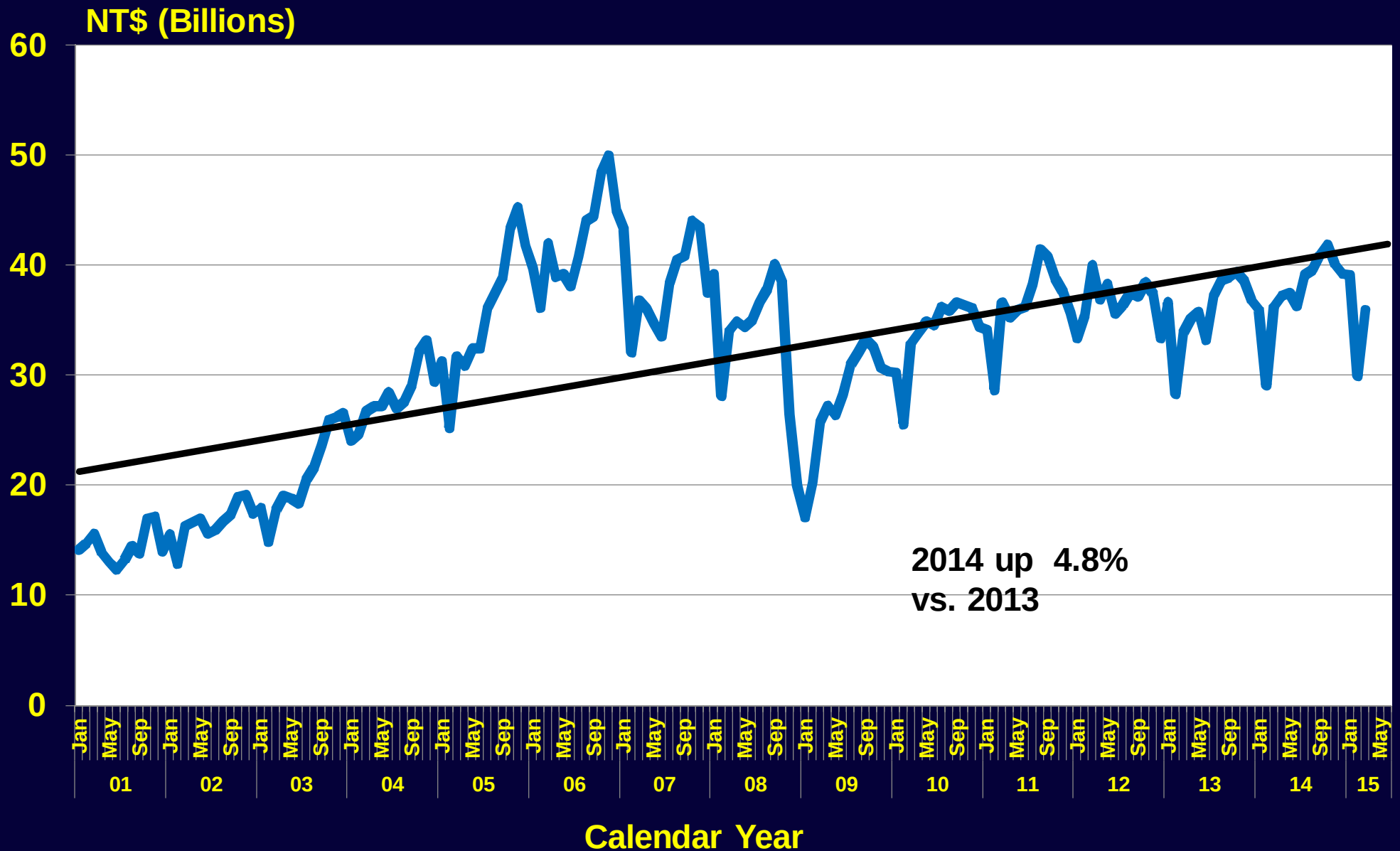


Chart 14

Taiwan Rigid Laminate/Prepreg Vendors Composite of 8 Large Manufacturers

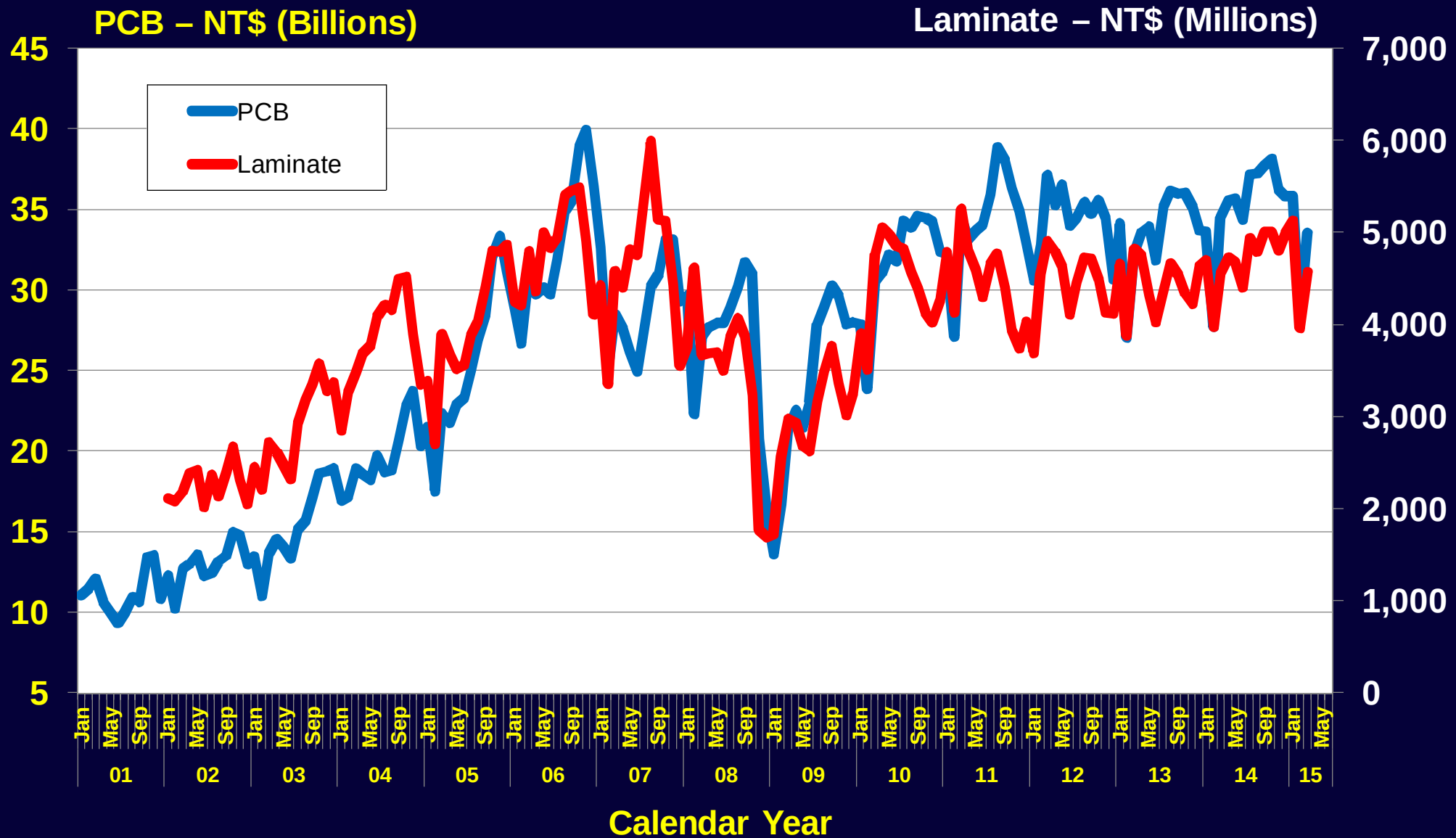


Company Financial Releases

Elite Materials, Top Union Electronics, Taiwan Union Technology, Hwa Woei Laminate, Uniplus Electronics, Iteq, Taiwan Leader Advanced Technology, Shinemore Technology

Taiwan Shipments

42 Rigid PCB & 8 Laminate Manufacturers



Present Growth Rates (%)

U.S. Economy & Electronics Industry

	Latest Month	Annual Growth	3-Month Growth
Electronic Component \$			
Rigid & Flex PCB Orders (N Amer)	2/15	101.7	103.3
Rigid & Flex PCB Shipments (N Amer)	2/15	99.7	100.6
Electronic Component Orders	2/15	107.4	114.2
Electronic Component Shipments	2/15	106.0	110.6
Semiconductor Shipments to N America	2/15	112.4	117.1
U.S. Electronic Equipment Orders \$			
Computer & Related	2/15	96.4	87.0
Communication	2/15	92.8	96.0
Medical, Measurement & Control	2/15	109.5	109.0
Search & Navigation	2/15	111.9	116.1
Defense Capital Goods	2/15	112.3	110.8
Military Electronics	2/15	112.9	121.6
Total Electronic Equipment	2/15	104.1	104.3
U.S. Industrial Production	2/15	104.3	104.1

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

Chart 17

U.S. Electronic Equipment Order & Shipment Growth

Computer, Communications, Measurement & Control and Military

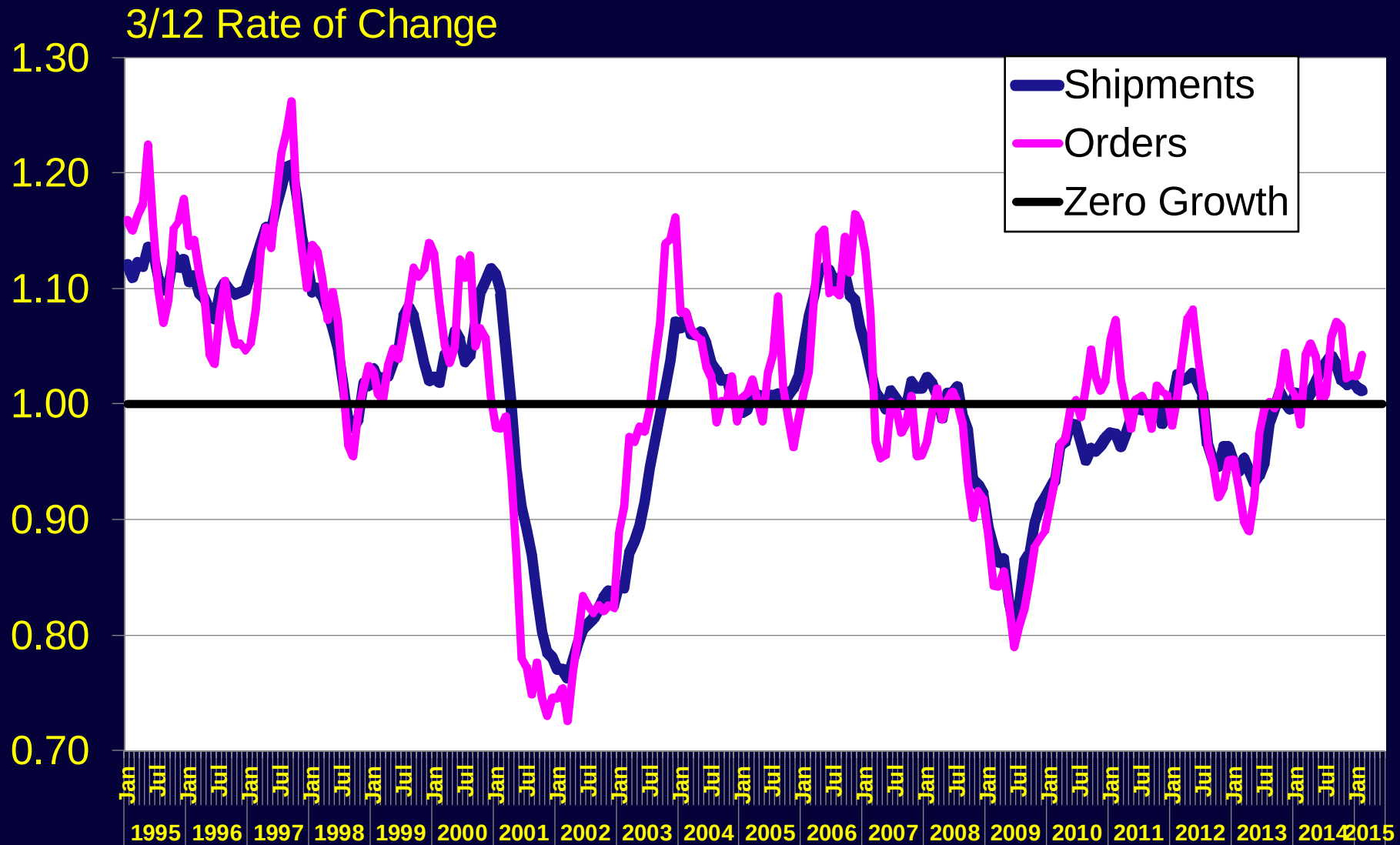
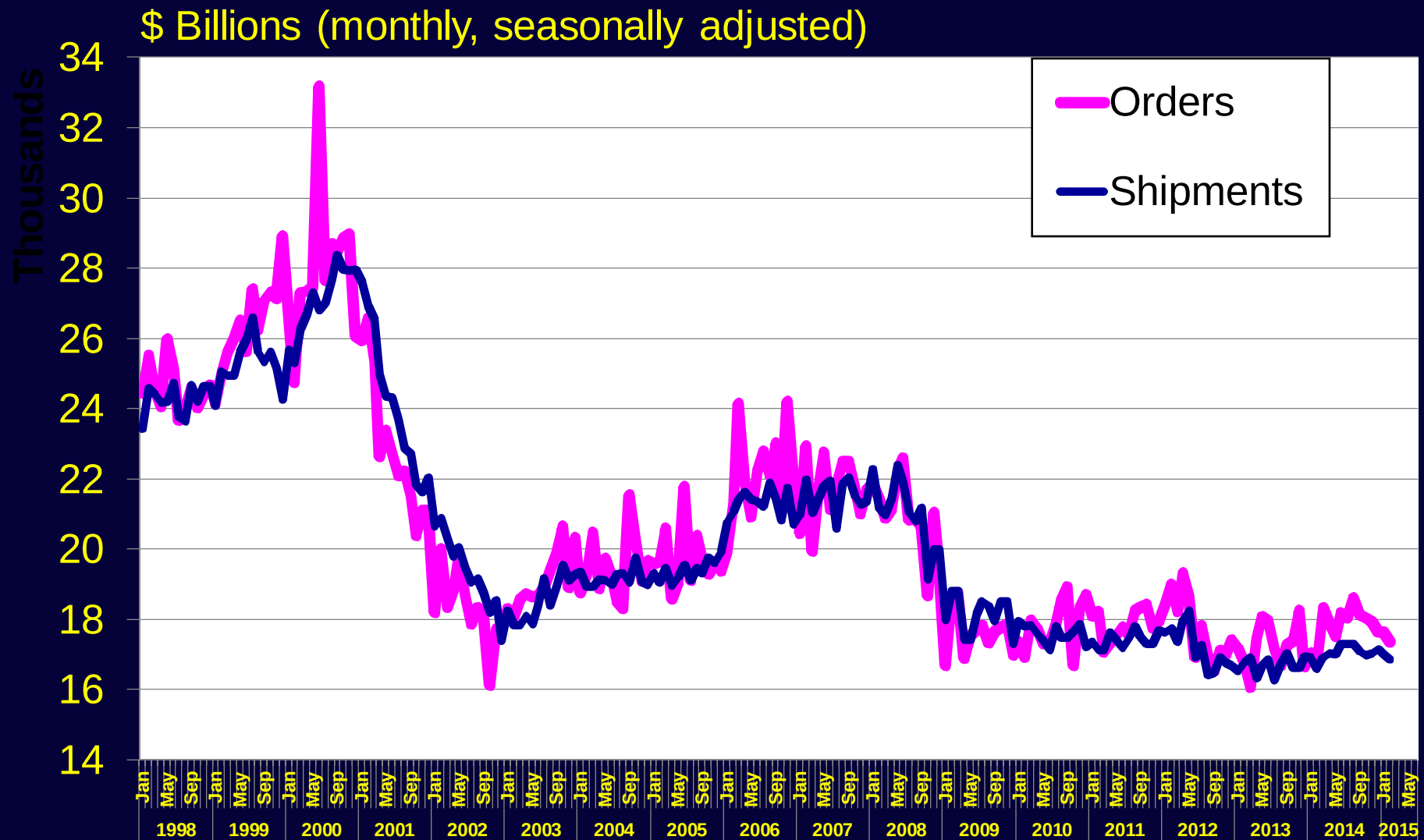


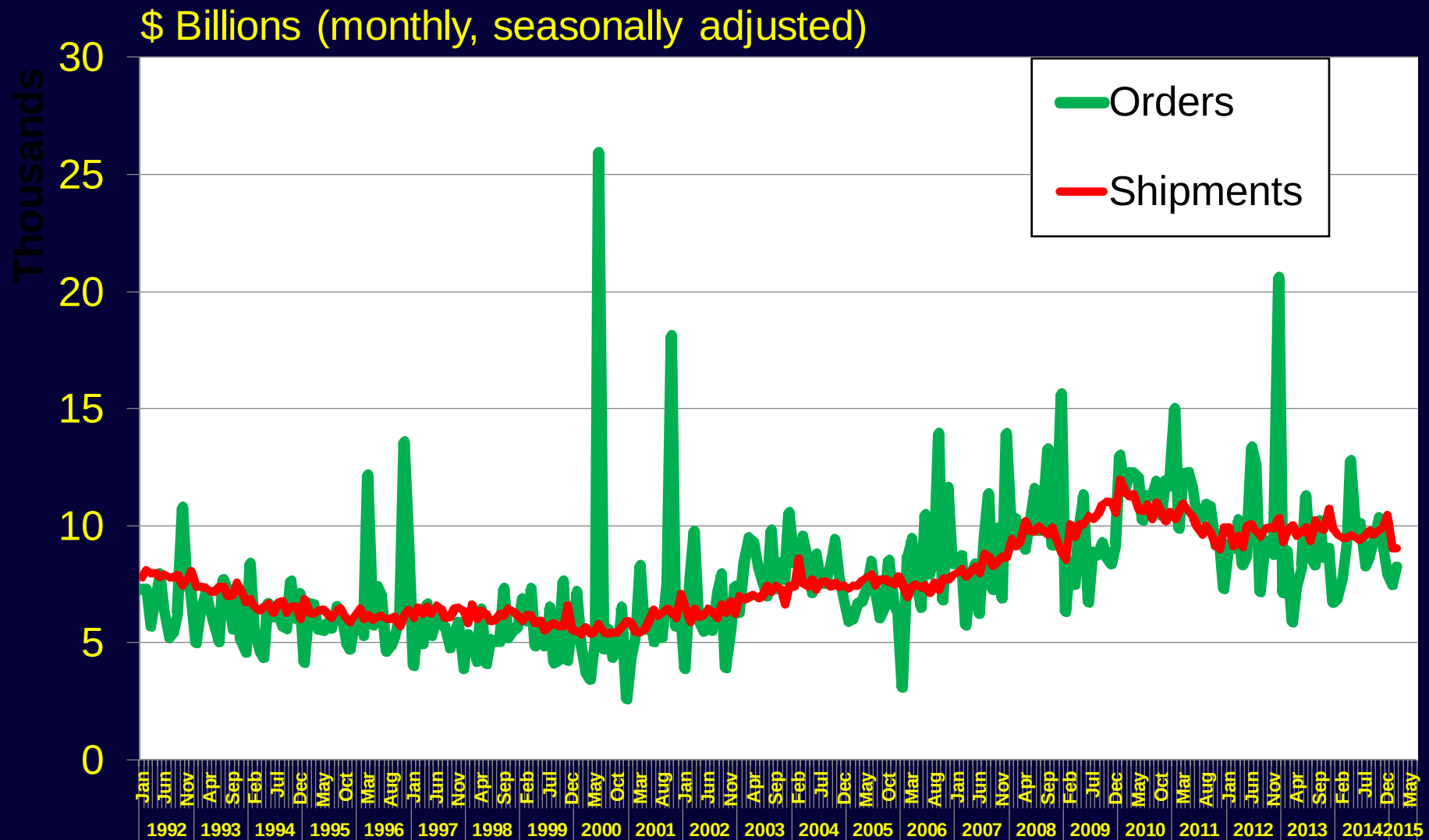
Chart 18

U.S. Electronic Equipment Orders & Shipments

Computer, Communications, Measurement & Control and Military



U.S. Defense Capital Goods Orders & Shipments



U.S. Military Electronics Orders & Shipments

Defense Communication & Search & Navigation Equipment

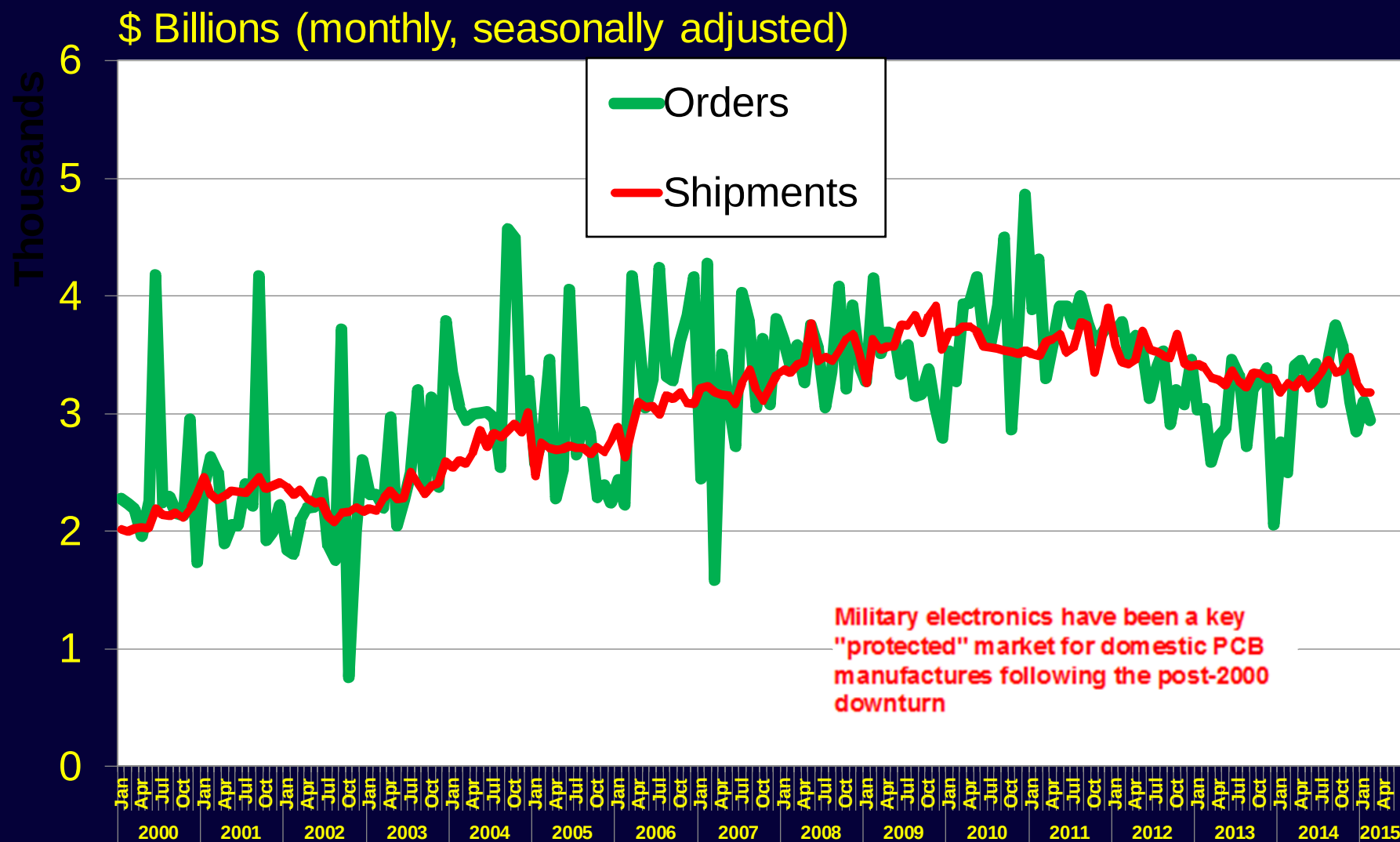
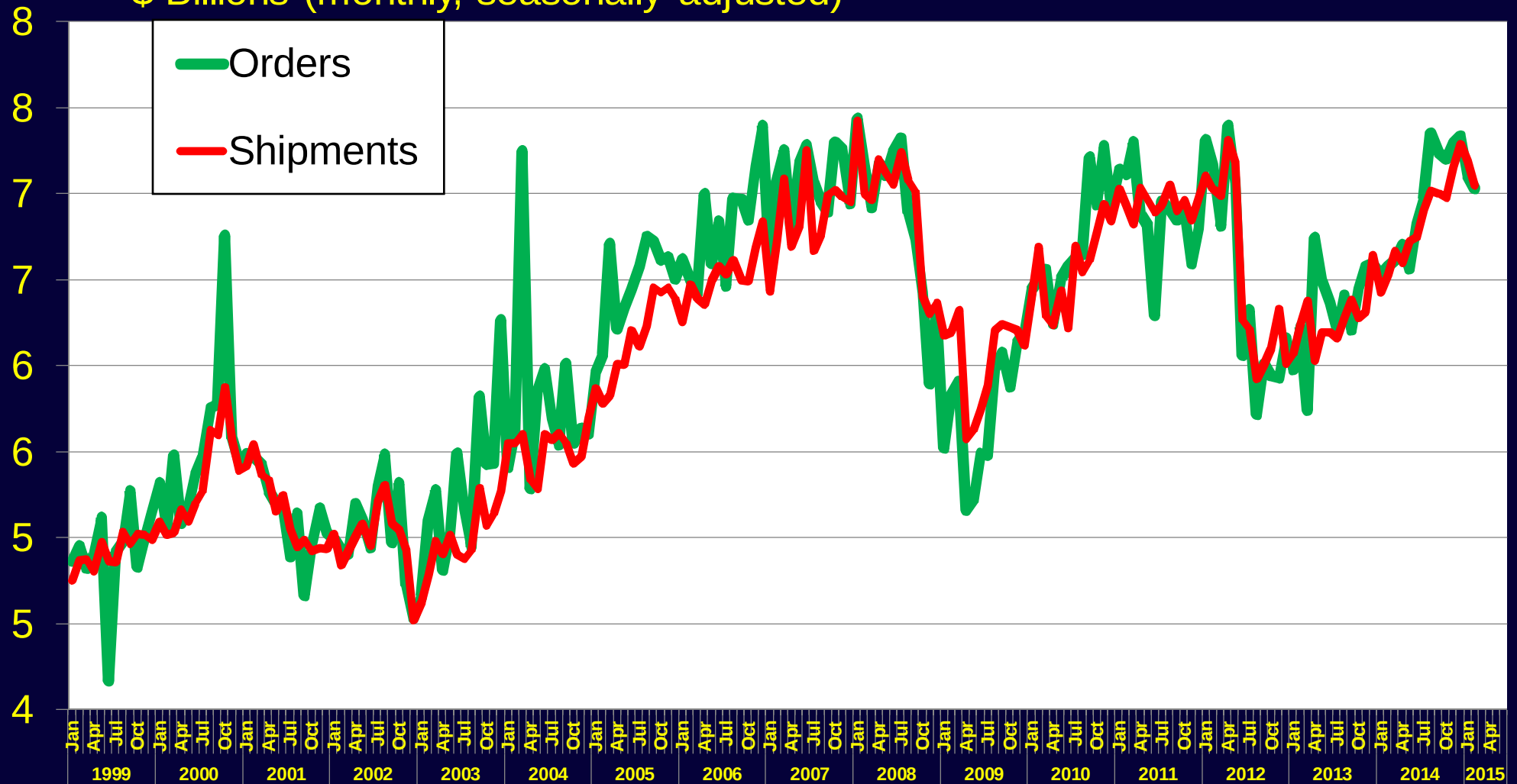


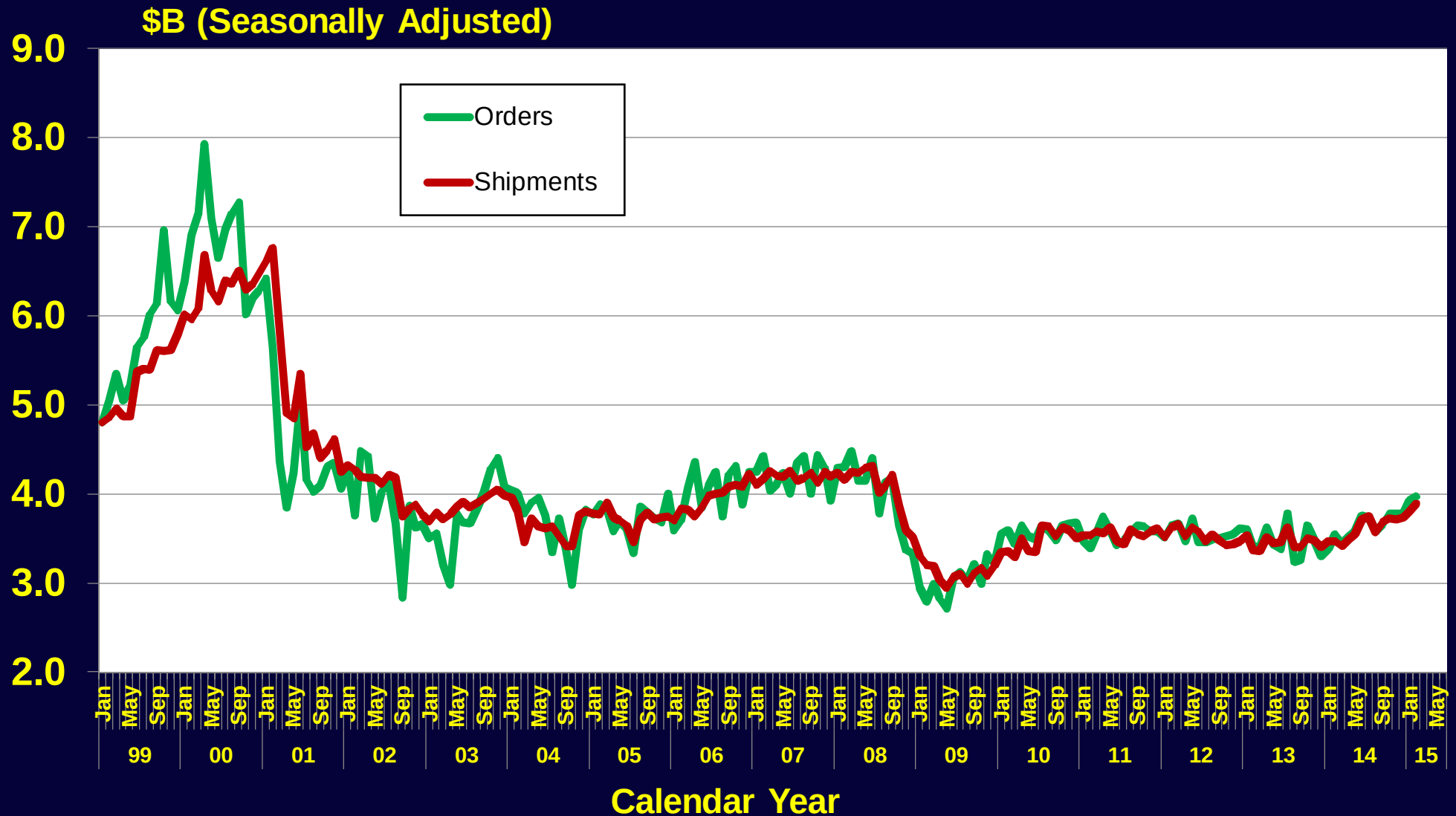
Chart 21

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

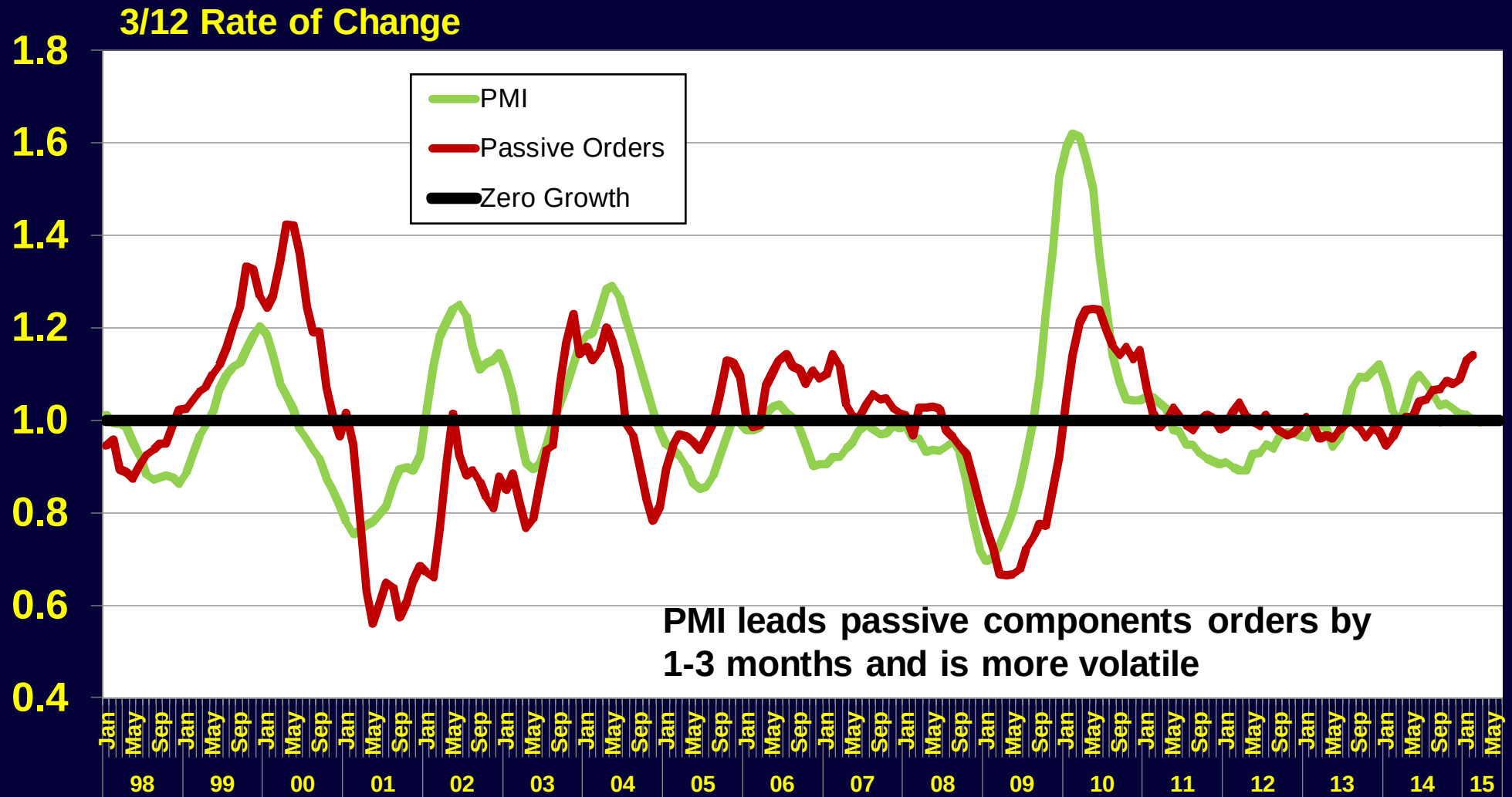
\$ Billions (monthly, seasonally adjusted)



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



U.S. Passive Component Orders vs. U.S. PMI

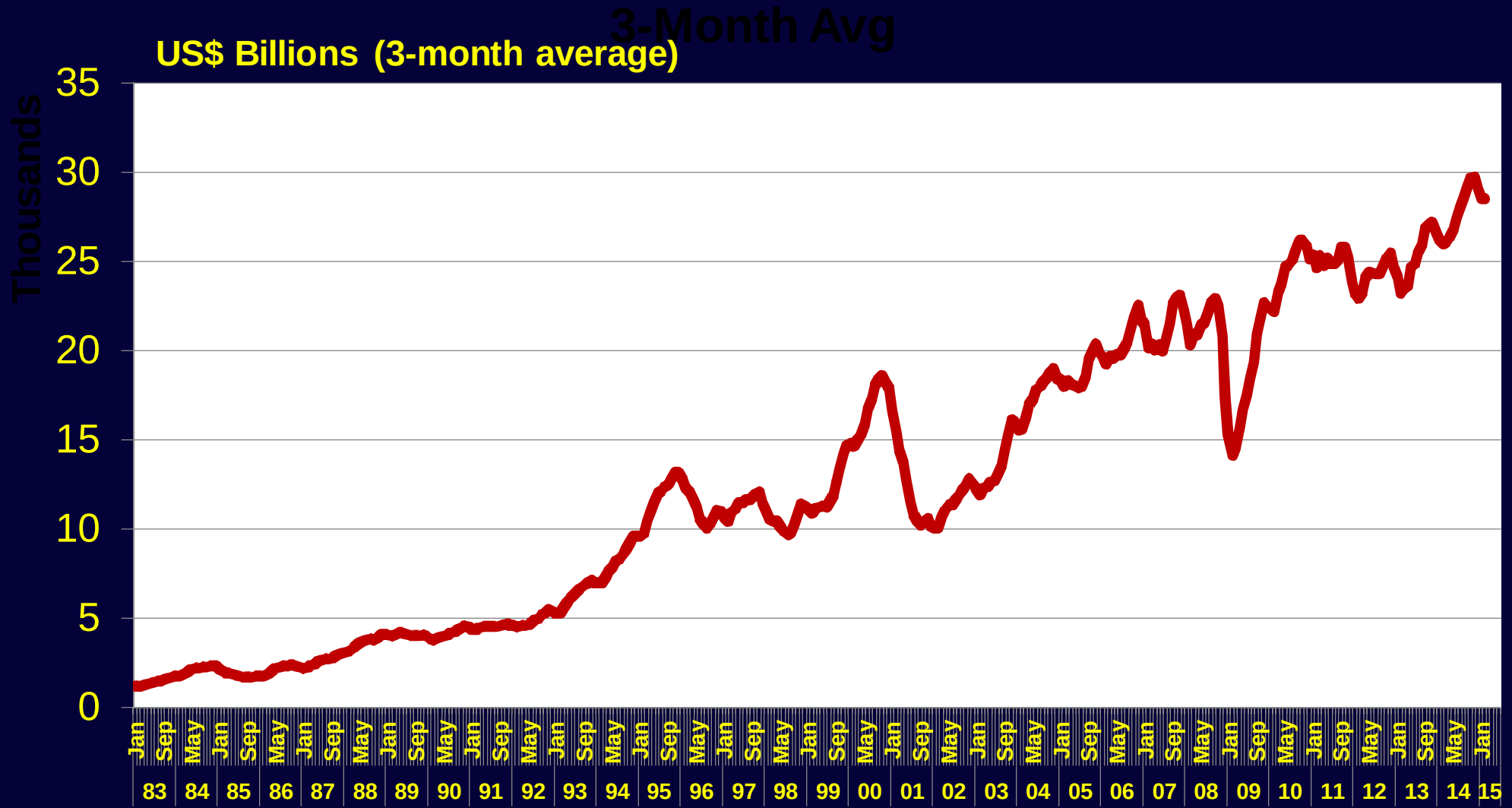


Monthly Semiconductor Shipments \$ Billions (3-month average)

	<u>2/14</u>	<u>2/15</u>	<u>% CH</u>
Americas	5.32	6.23	+ 17.1%
Europe	2.96	2.90	- 2.0%
Japan	2.81	2.56	- 8.8%
Asia Pacific	14.96	16.10	+ 7.6%
Total	26.04	27.79	+ 6.7%

World Semiconductor Shipments

Monthly US\$



CCG Semiconductor Leading Indicator vs. Global Semiconductor Shipments

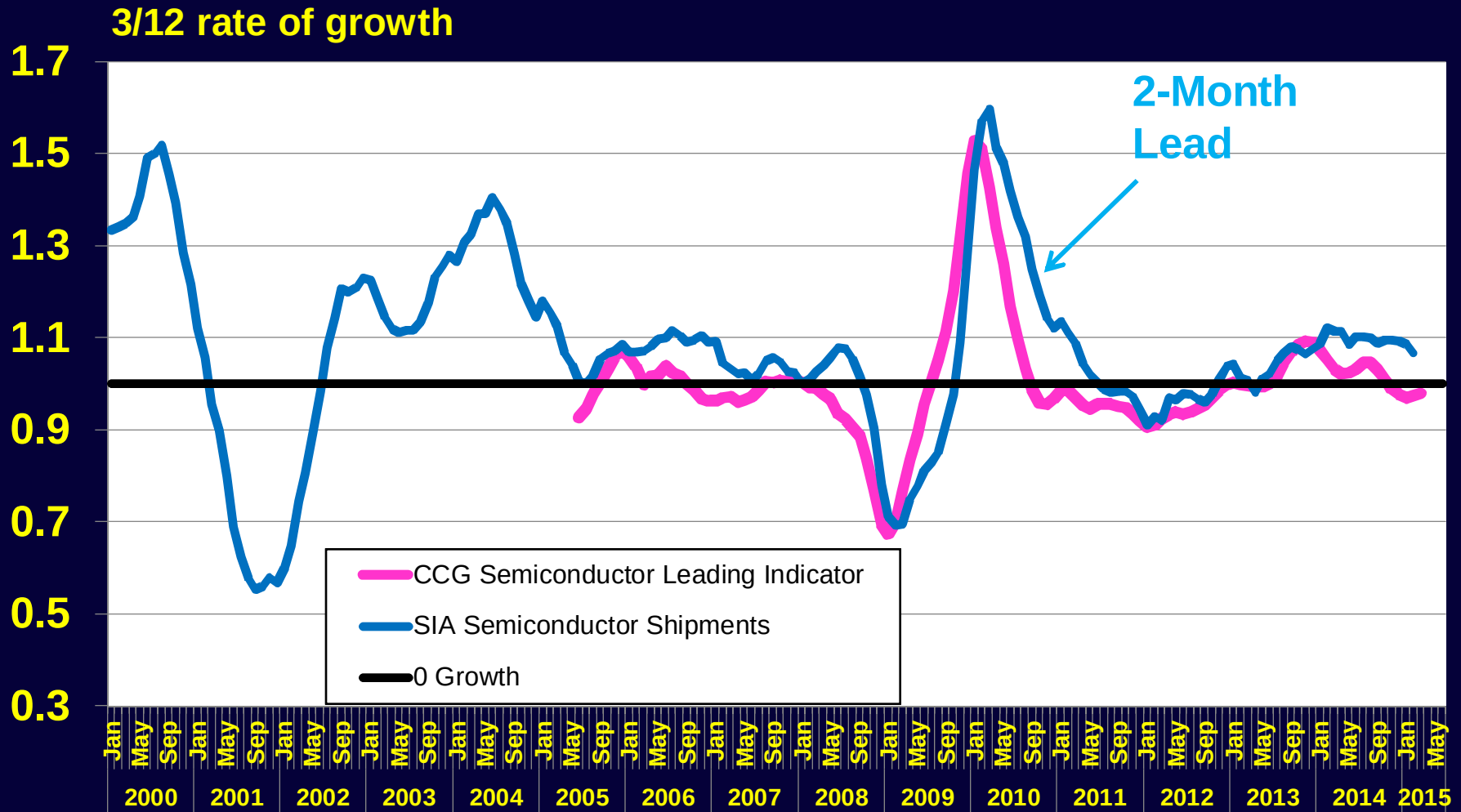


Chart 27

Total Semiconductor Shipments to an Area

Monthly Shipments - Reporting Firms

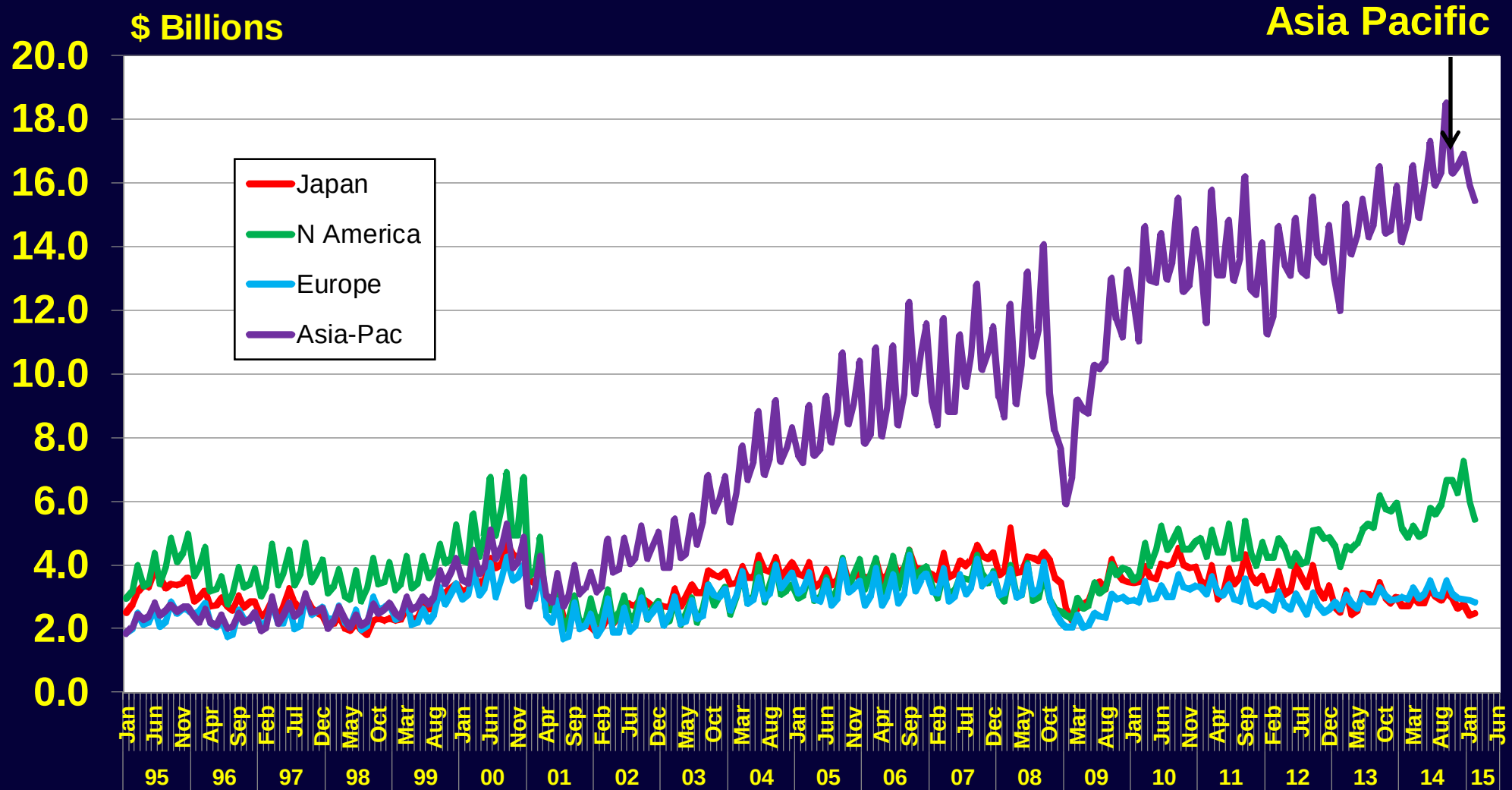
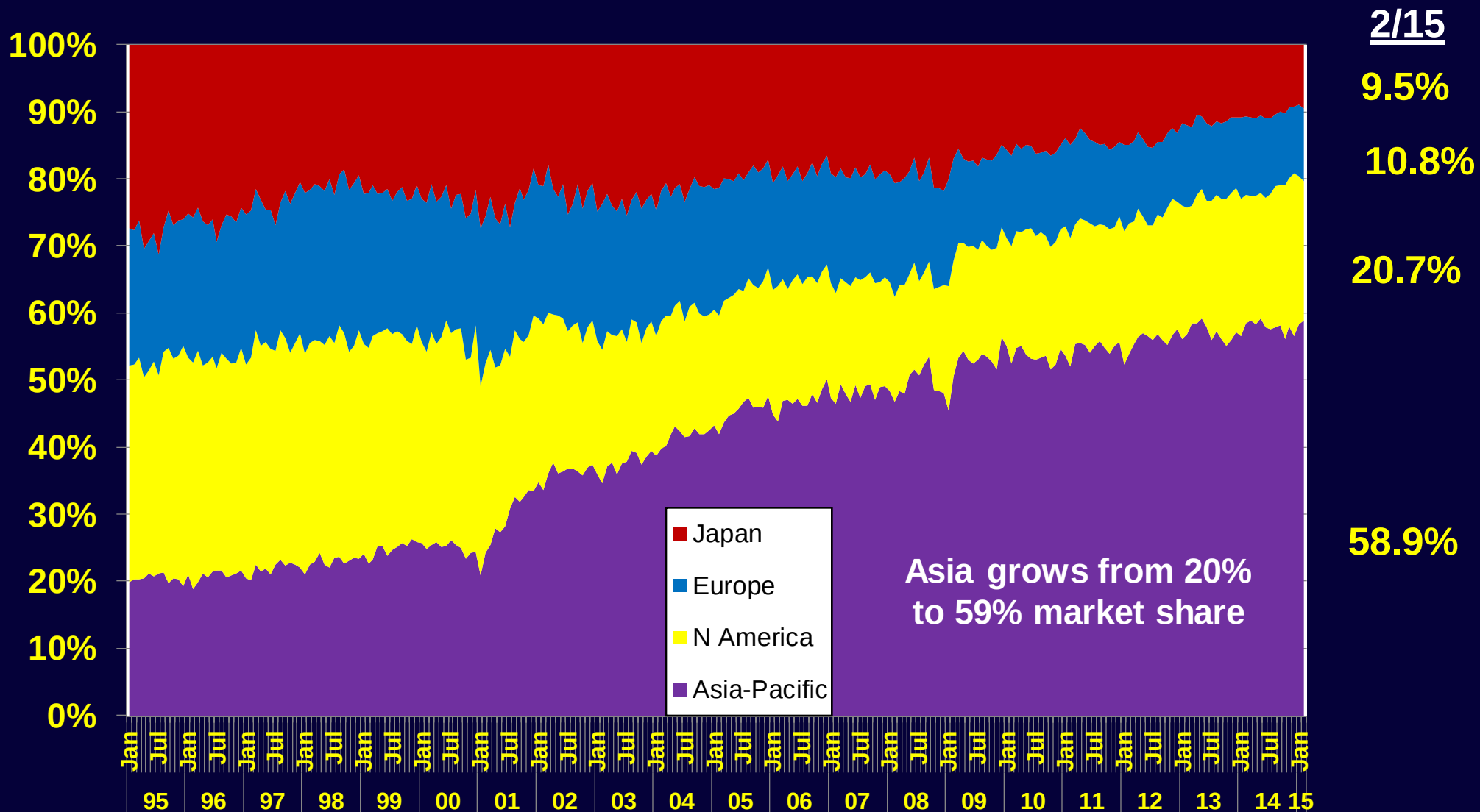


Chart 28

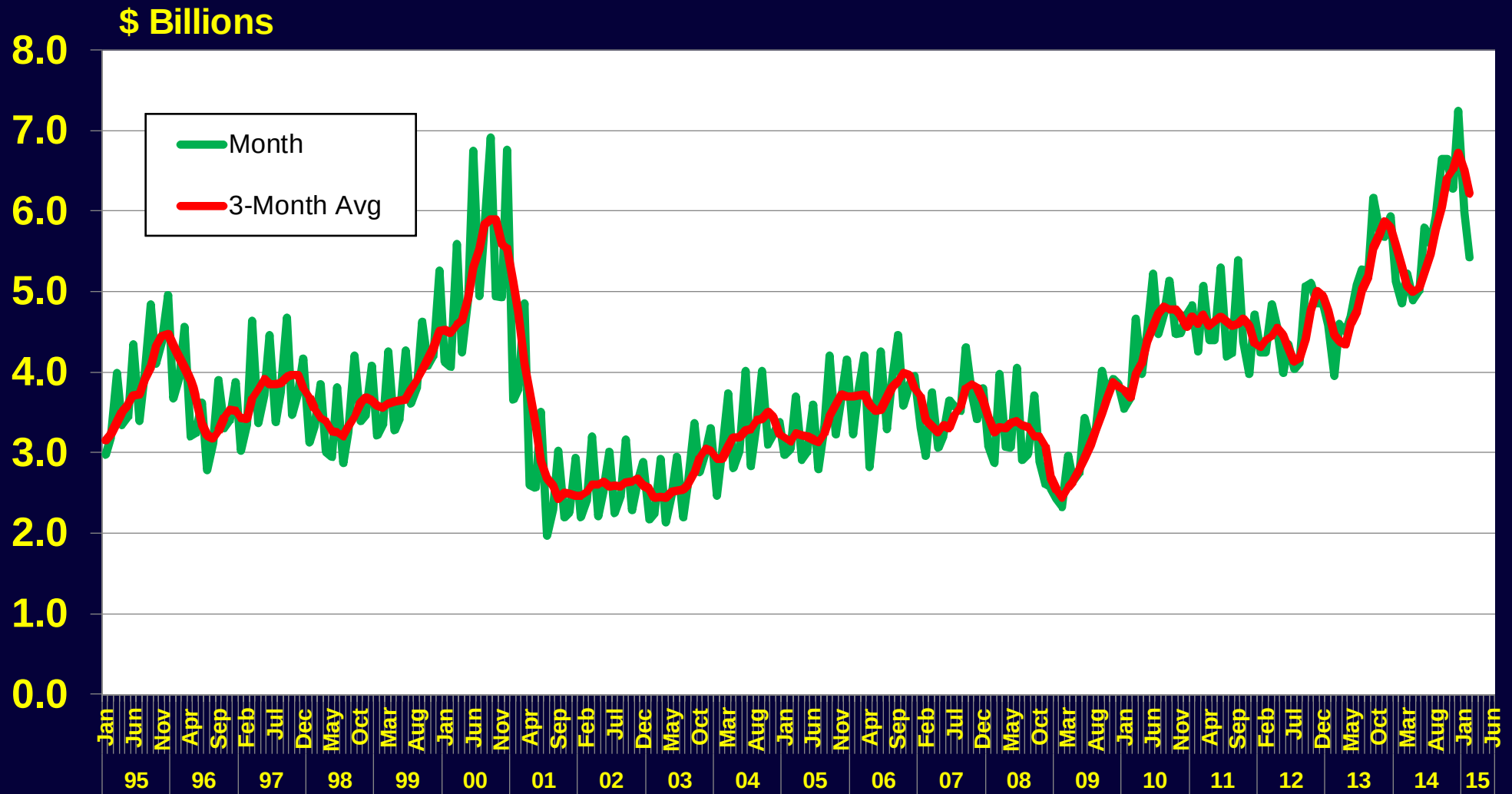
Total Semiconductor Shipments to an Area

Monthly Shipments - Reporting Firms



N American Semiconductor Shipments

Monthly & 3-Month Average Shipments

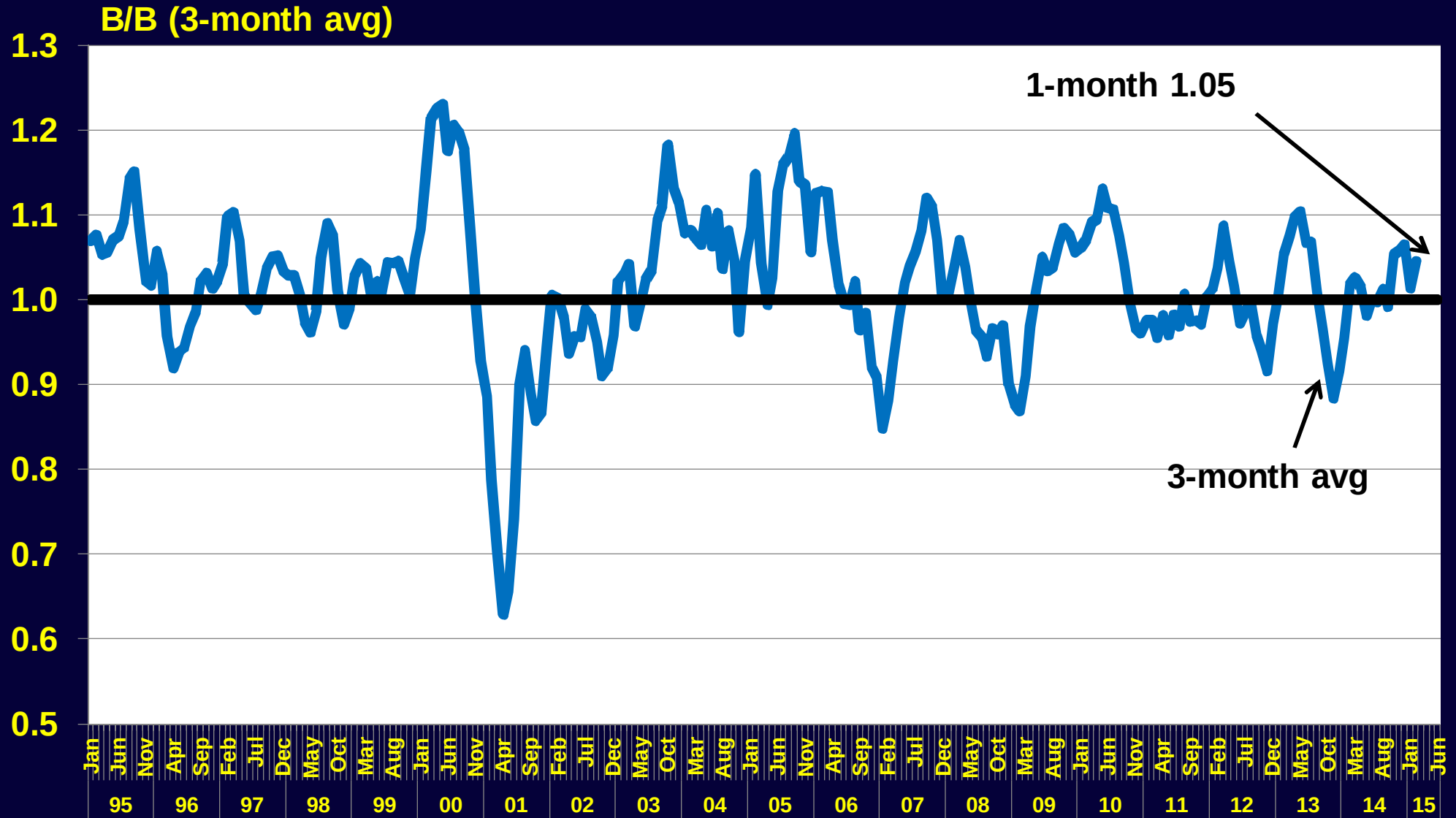


2014 Worldwide Semiconductor Vendors Top 10 by Revenue (US\$ millions)

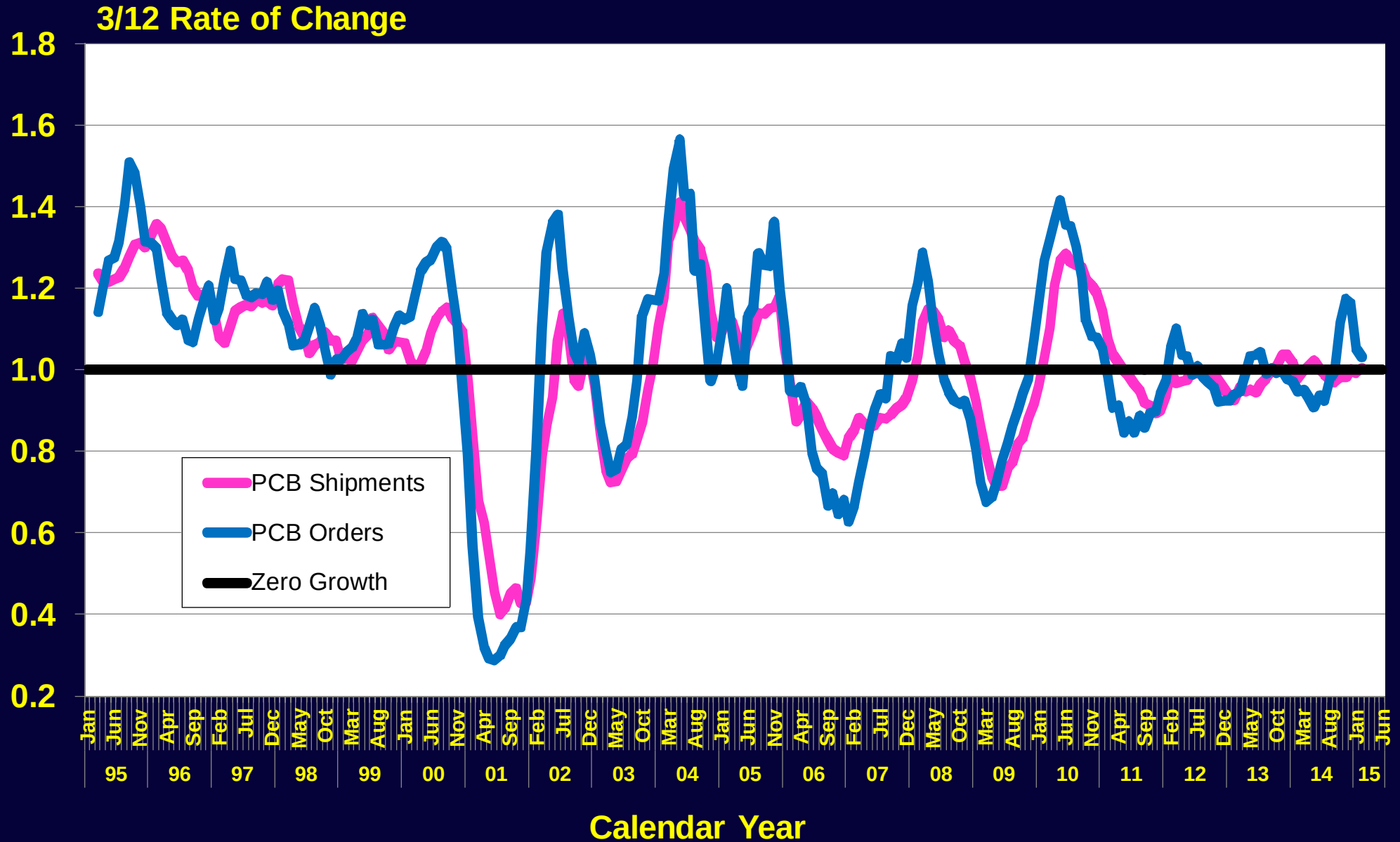
<u>Rank</u>	<u>Maker</u>	<u>2014</u>	<u>2014/2013</u>
1	Intel	52,331	7.7%
2	Samsung Electronics	34,742	13.4%
3	Qualcomm	19,291	12.1%
4	Micron Technology	16,278	36.6%
5	SK Hynix	15,997	26.7%
6	Texas Instruments	11,538	8.9%
7	Toshiba	10,665	-5.4%
8	Broadcom	8,428	2.8%
9	STMicroelectronics	7,376	-8.7%
10	Renesas Electronics	7,276	-8.8%
	Others	156,409	5.5%
	Total	340,331	7.9%

Rigid & Flexible PCB Book/Bill

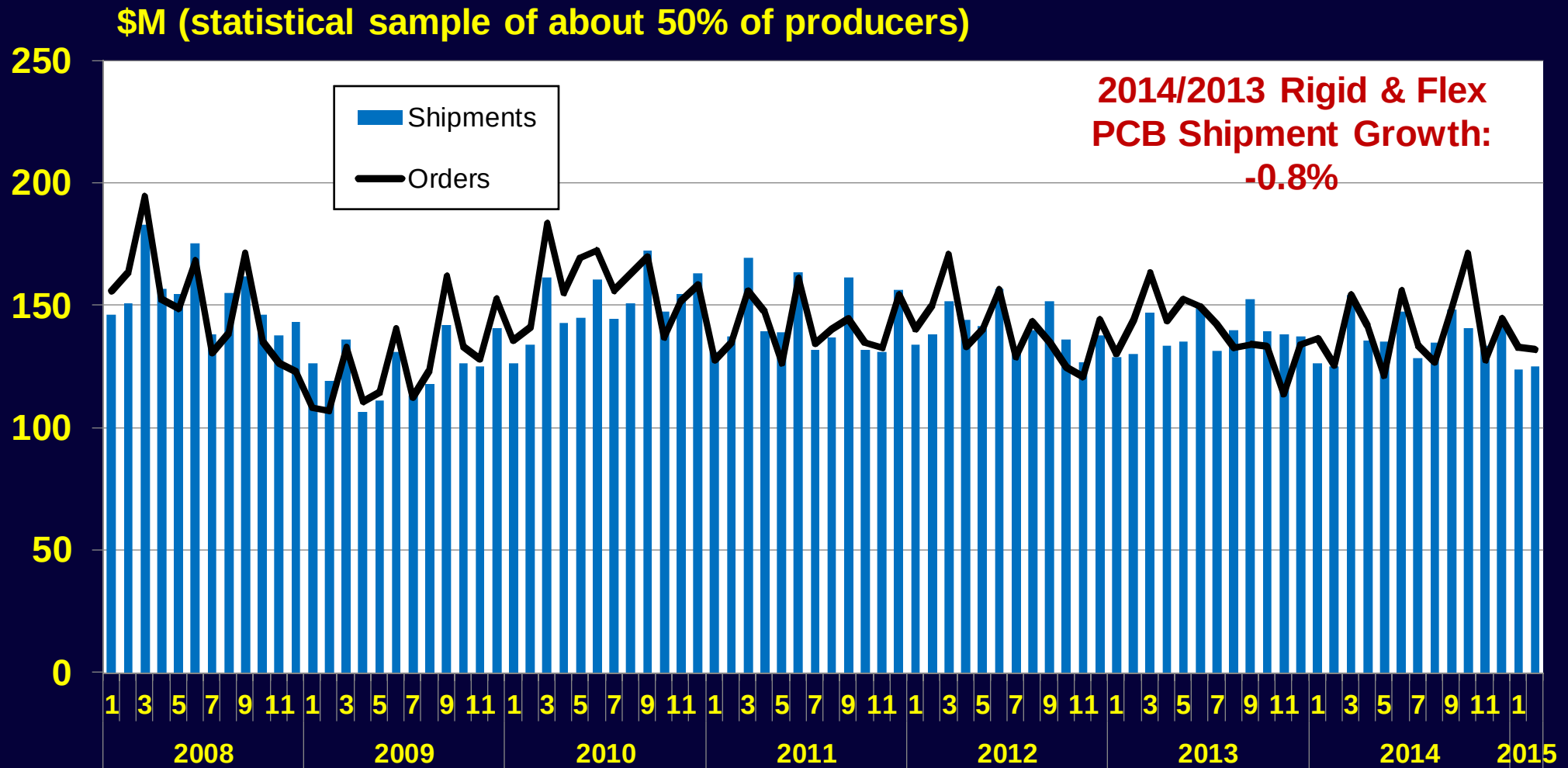
N. America



N. America Rigid & Flexible PCB Orders & Shipments



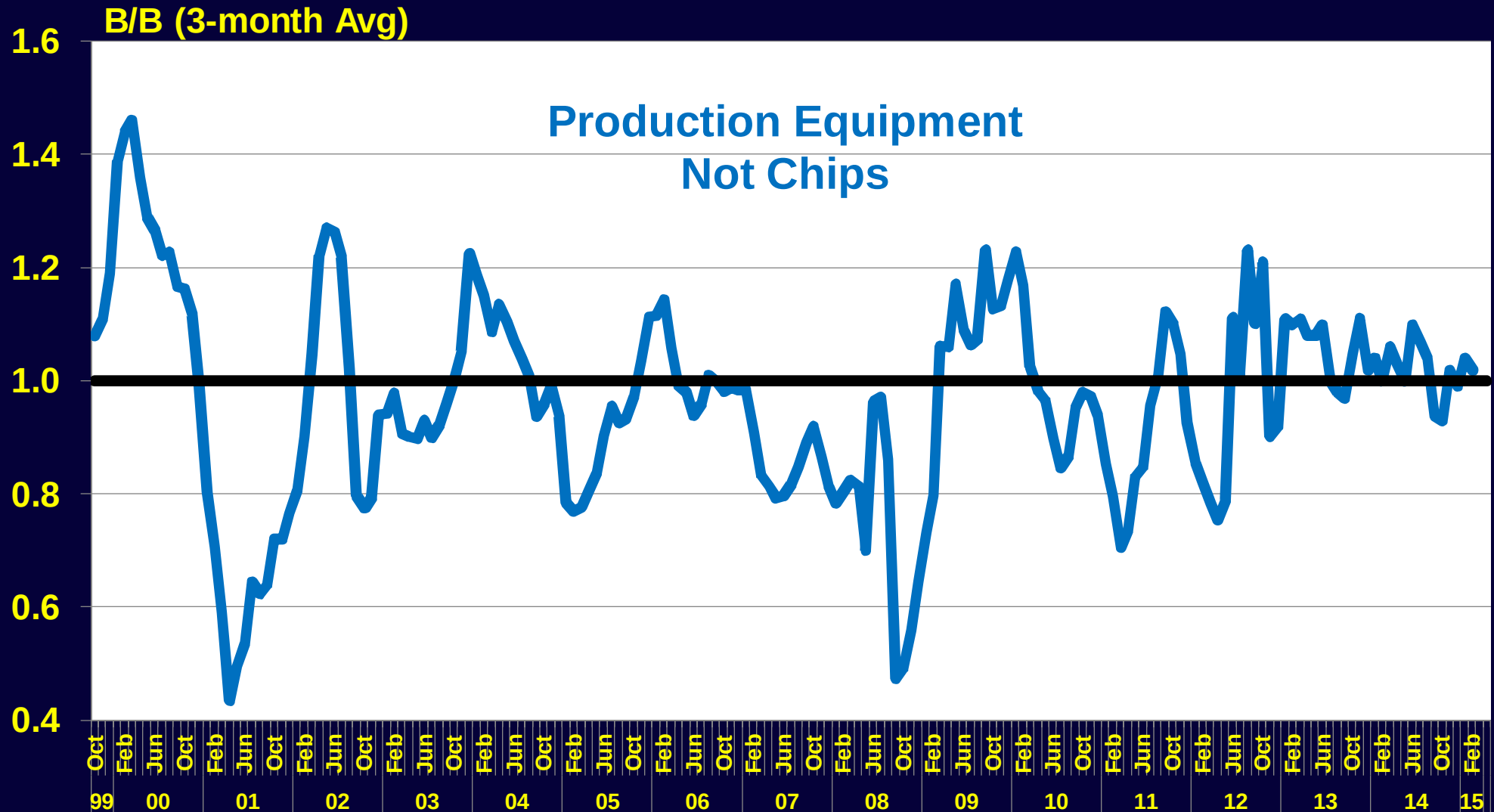
N American Rigid & Flexible PCB Shipments & Orders



Note: IPC survey captures "market" not domestic production. About 15% of the above represents imported boards resold by N American PCB producers in survey.

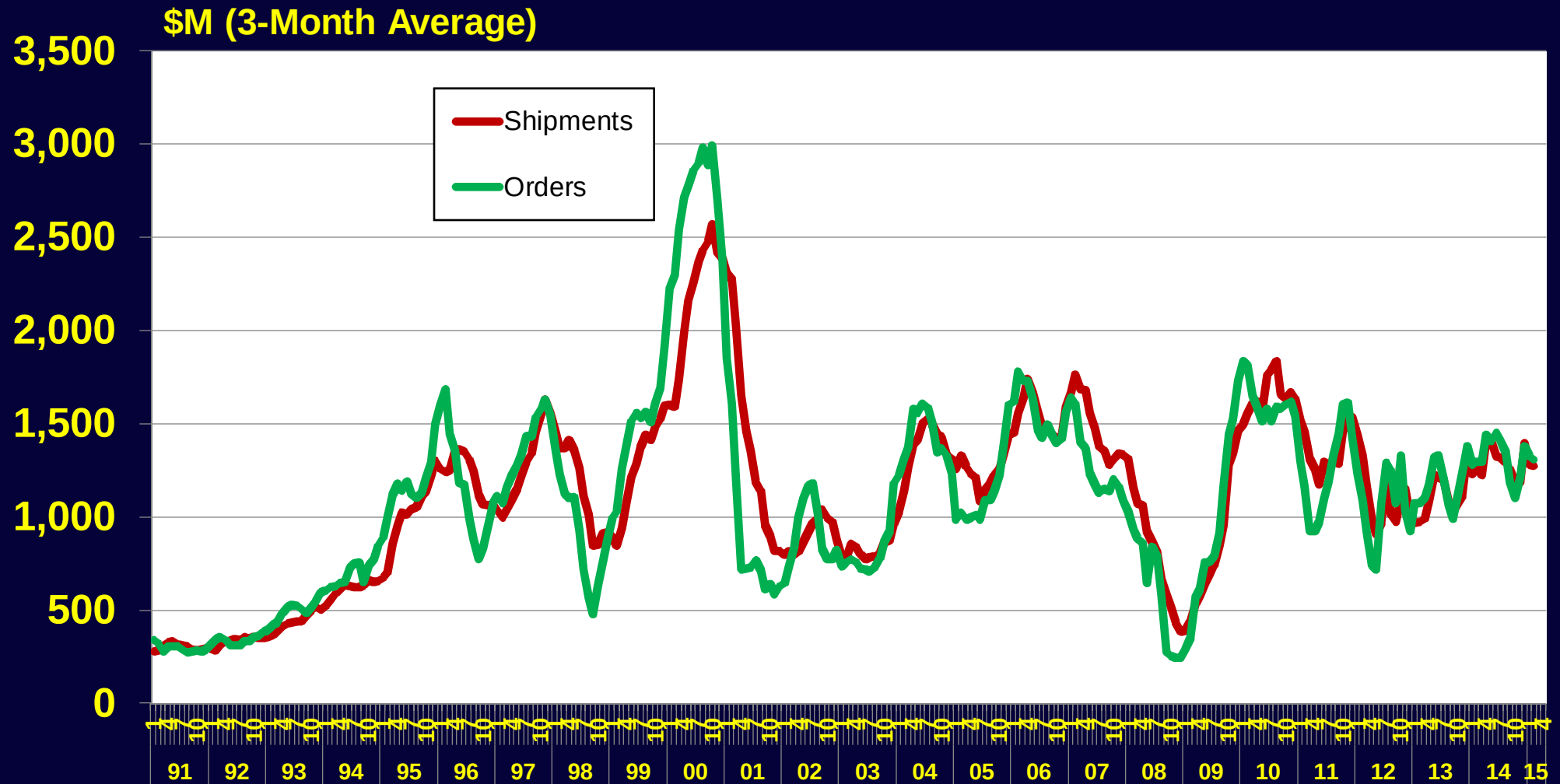
Chart 34

N American Semiconductor Equipment Industry Book/Bill Ratio



SOURCE Semiconductor Equipment and Materials International
<http://www.semi.org>

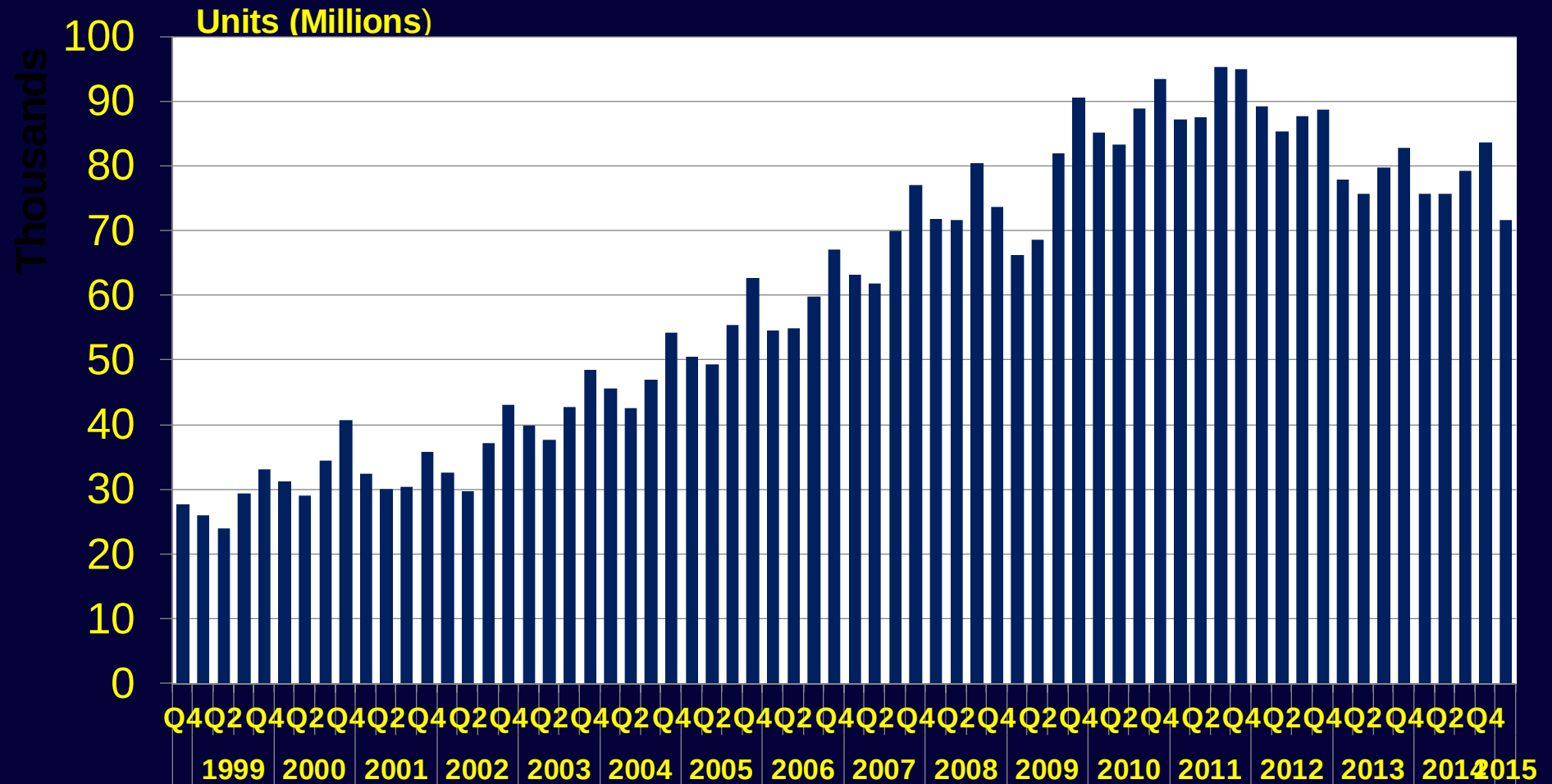
N American Semiconductor Equipment Industry Shipments & Orders



SOURCE Semiconductor Equipment and Materials International
<http://www.semi.org>

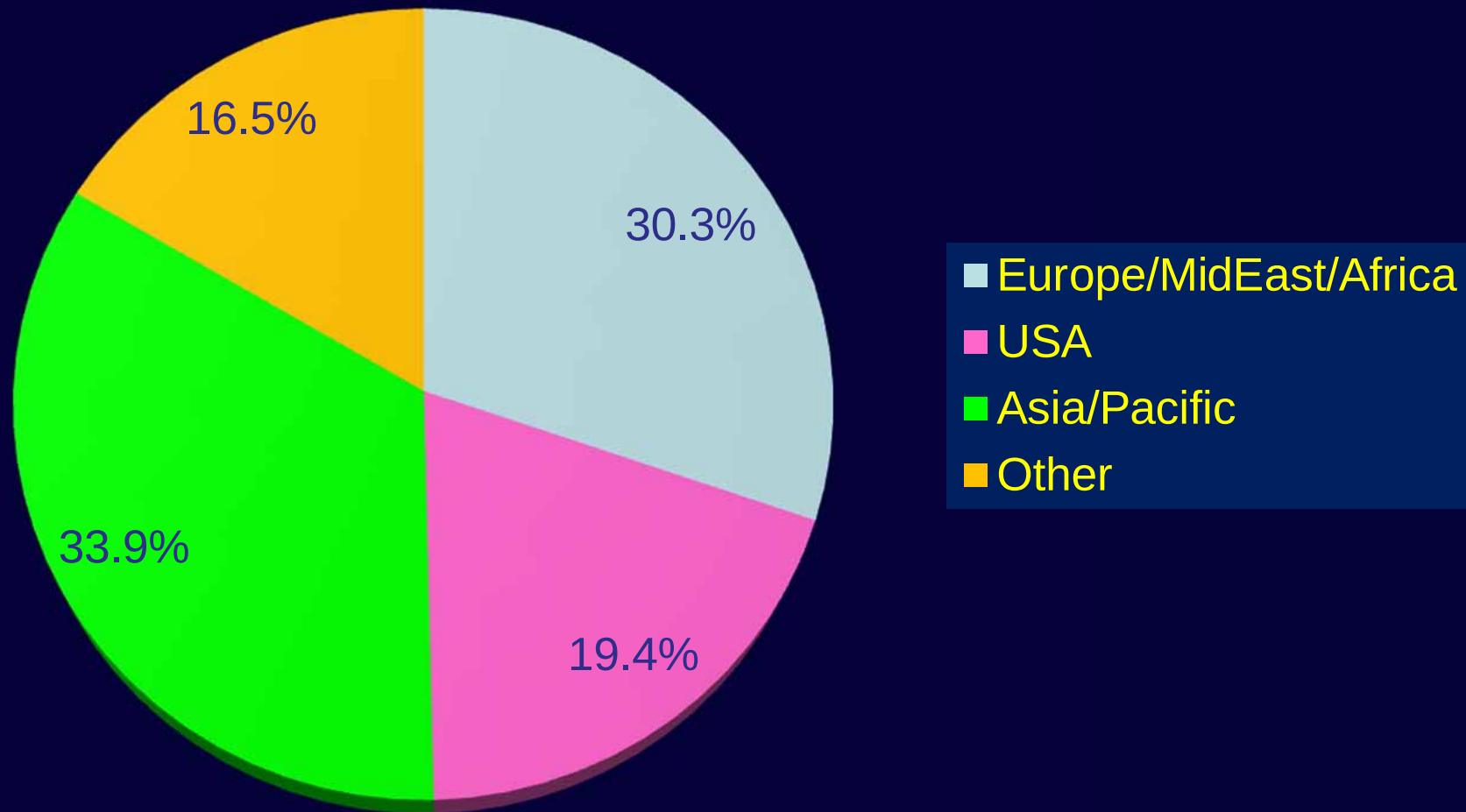
Personal Computer Unit Shipments

World
Units



Gartner Dataquest 4/15 & prior reports
Server & Media Tablets not included

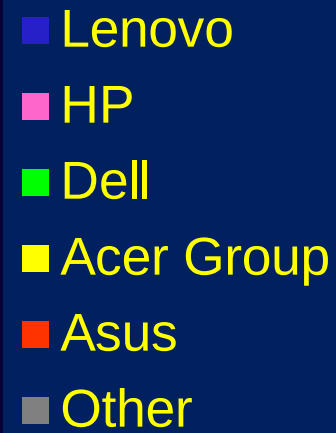
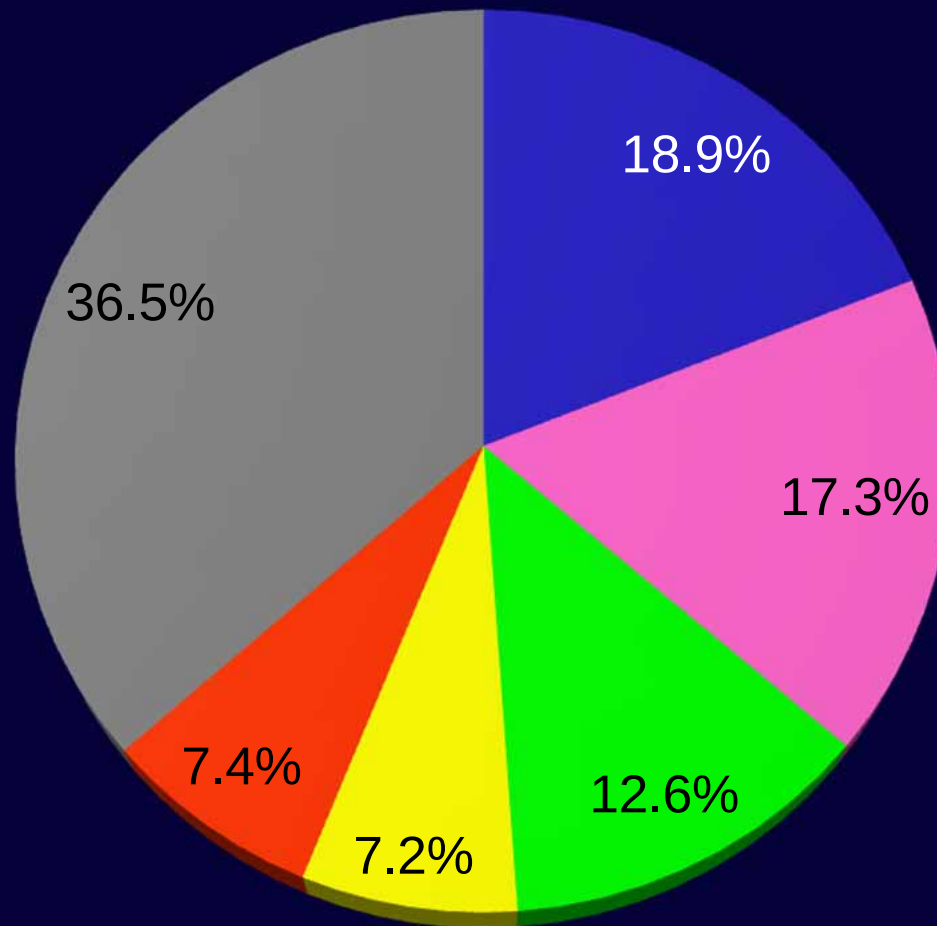
World Personal Computer Market 1Q'15



TOTAL: 71.7 Million Units

Includes desk-based PCs, mobile PCs, mini-notebooks but not Media Tablets

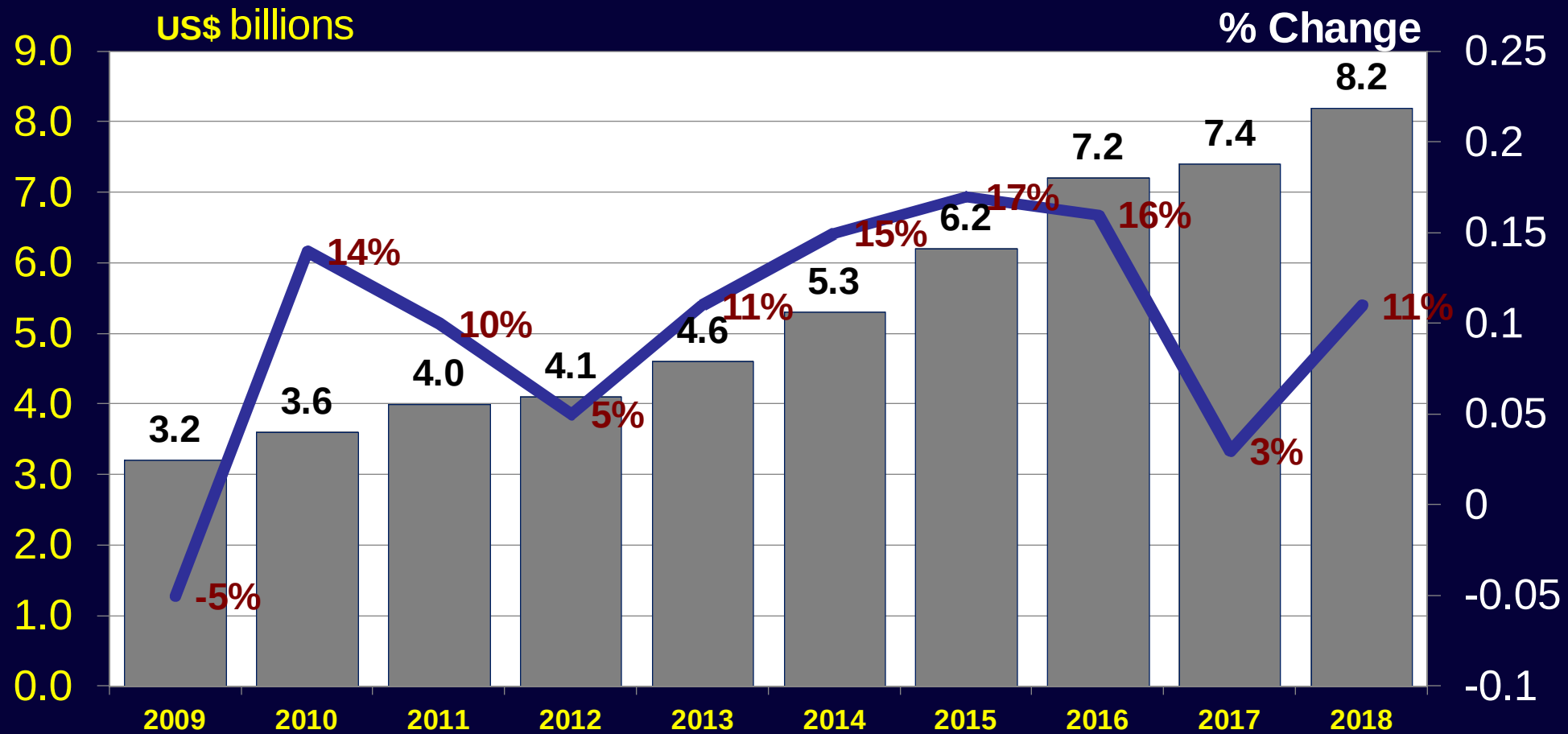
World Personal Computer Market 1Q'15



TOTAL: 71.7 Million Units

Includes desk-based PCs, mobile PCs, mini-notebooks but not Media Tablets

Medical Semiconductor Market Forecast



Wearable Computing Device Shipments by Category

World Units (millions)

	2014	2015	2019
Wristwear	17.7	40.7	101.4
Modular	1.6	2.6	6.7
Clothing	0	0.2	5.6
Eyewear	0.1	1.0	4.5
Earwear	0	0.1	0.6
Other	0.2	1.1	7.3
Total	19.6	45.7	126.1