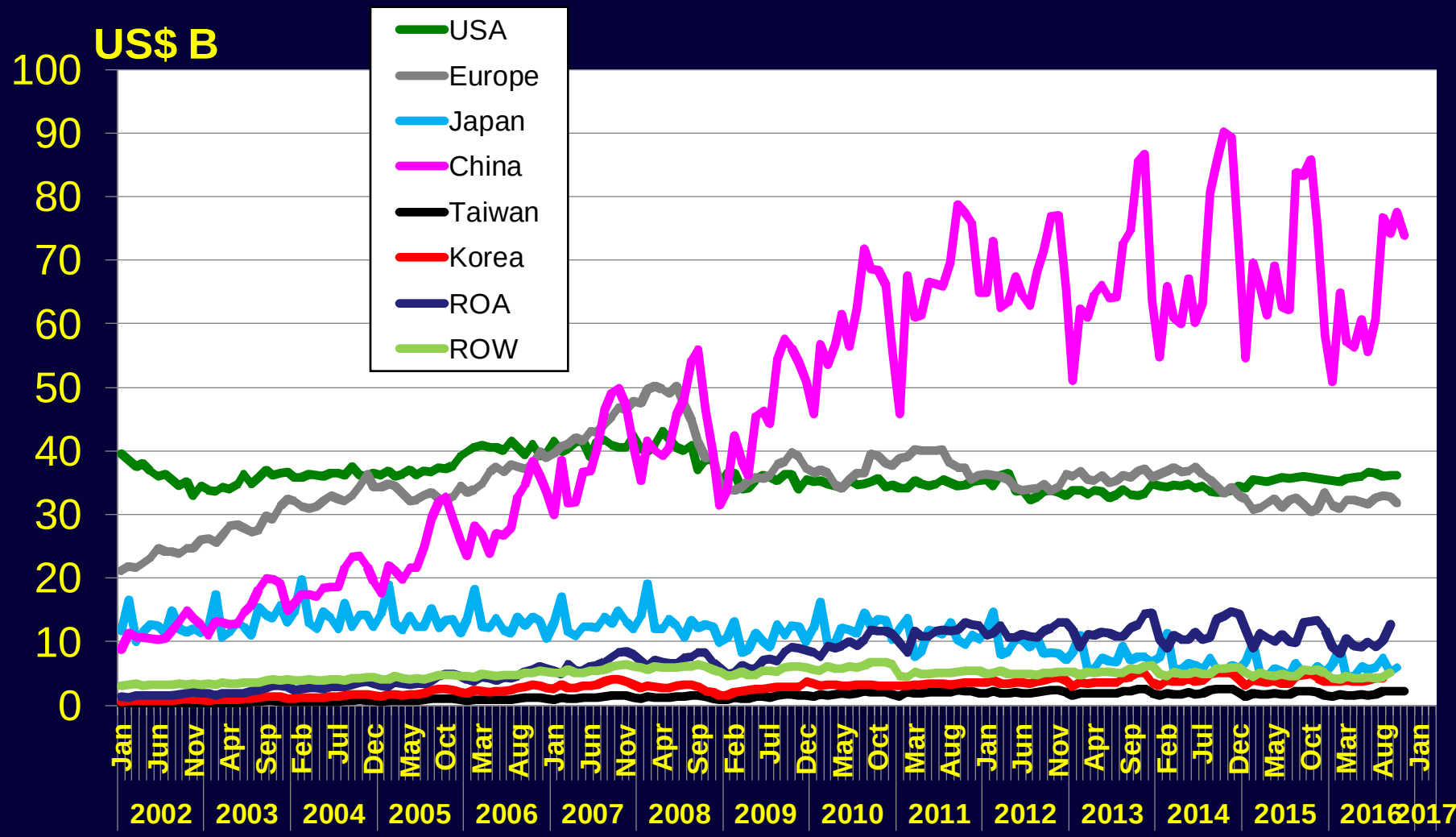
Chart 1

World Electronic Equipment Monthly Shipments

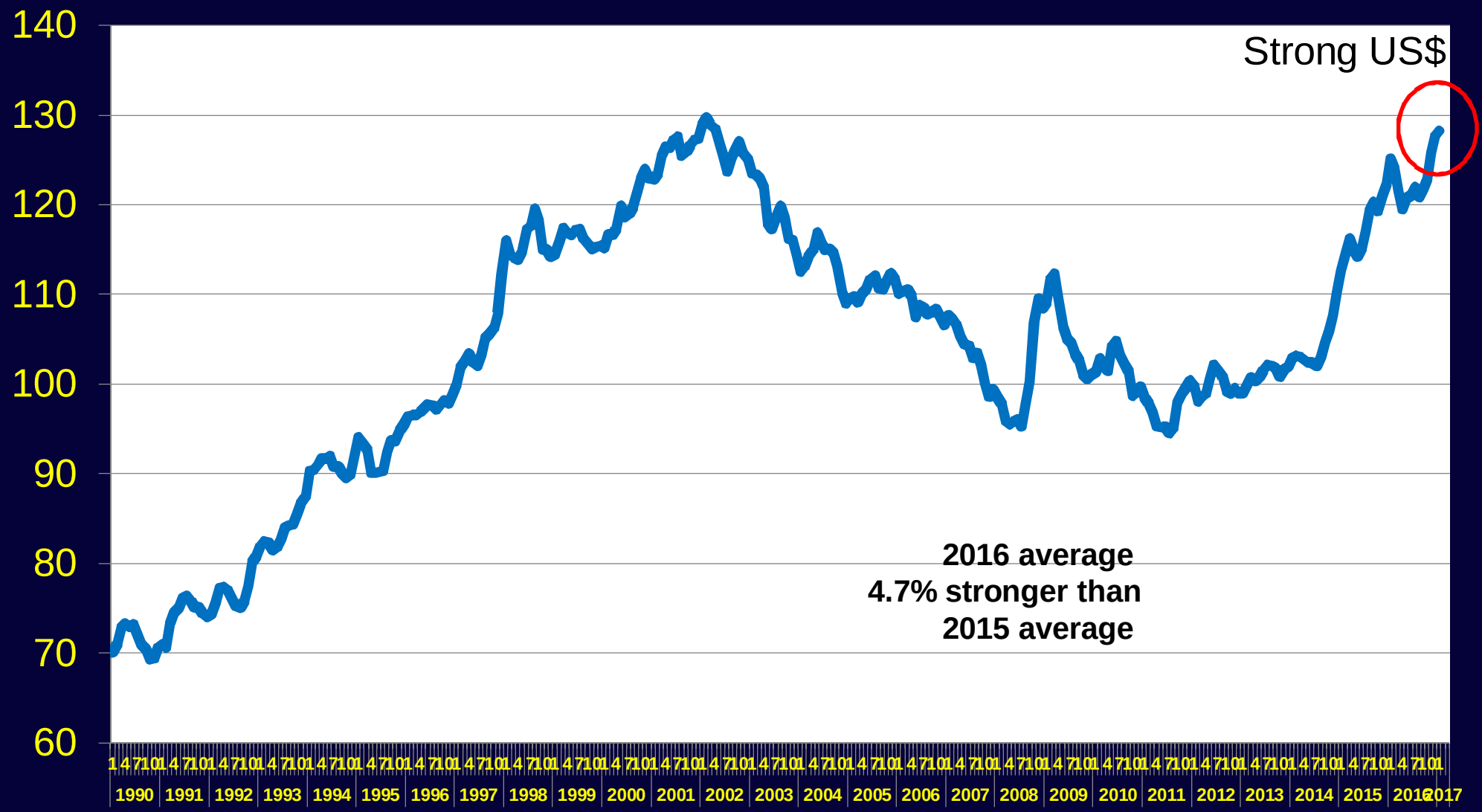
Converted @ Fluctuating Exchange Rates



Source: Custer Consulting Group & Electronic Outlook Corp

Chart 2

Trade-Weighted Exchange Value of U.S. Dollar Broad Index (January 1997=100)

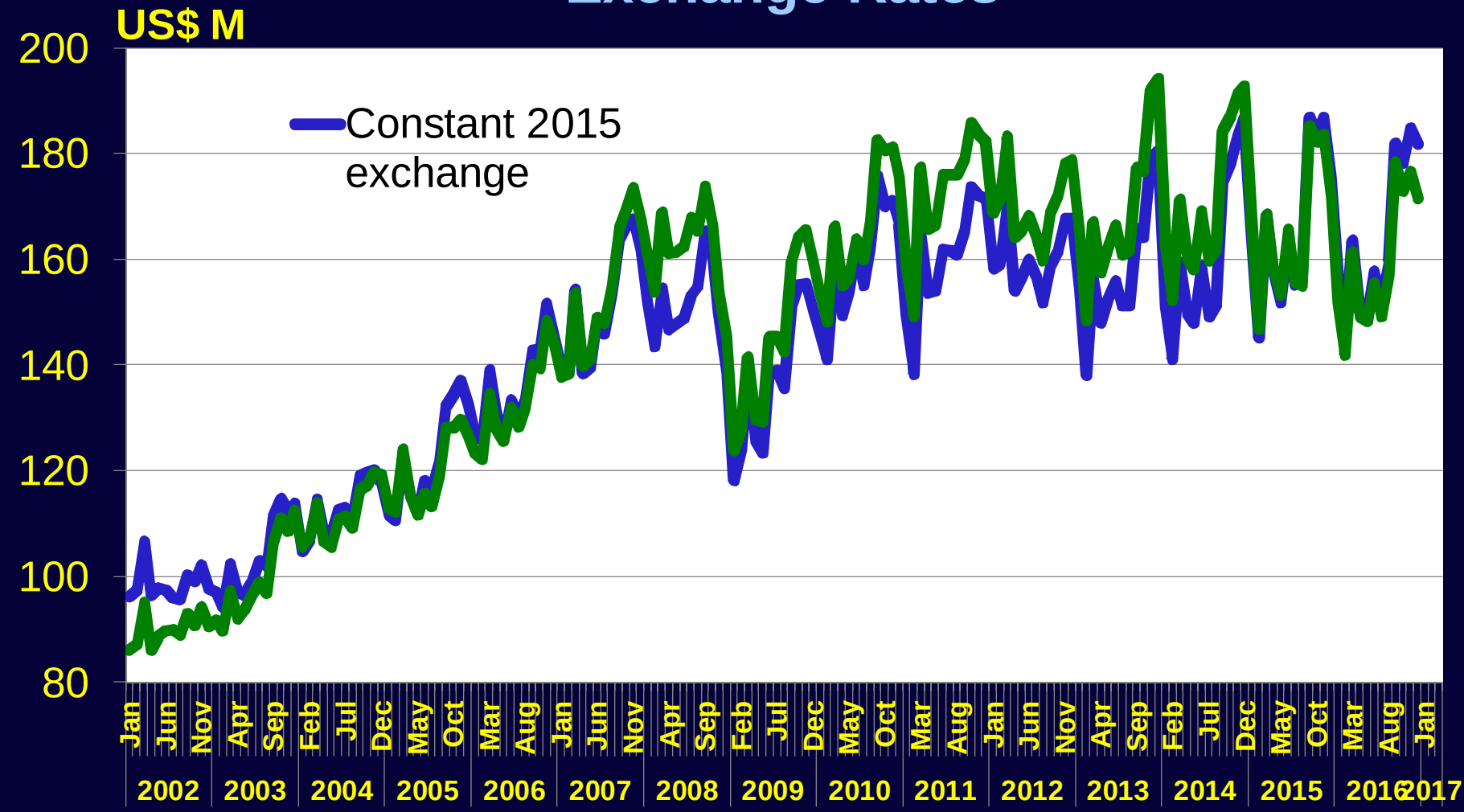


https://research.stlouisfed.org/fred2/series/TWEXBMTH

Chart 3

World Electronic Equipment Monthly Shipments

Converted @ Constant 2015 vs Fluctuating Exchange Rates

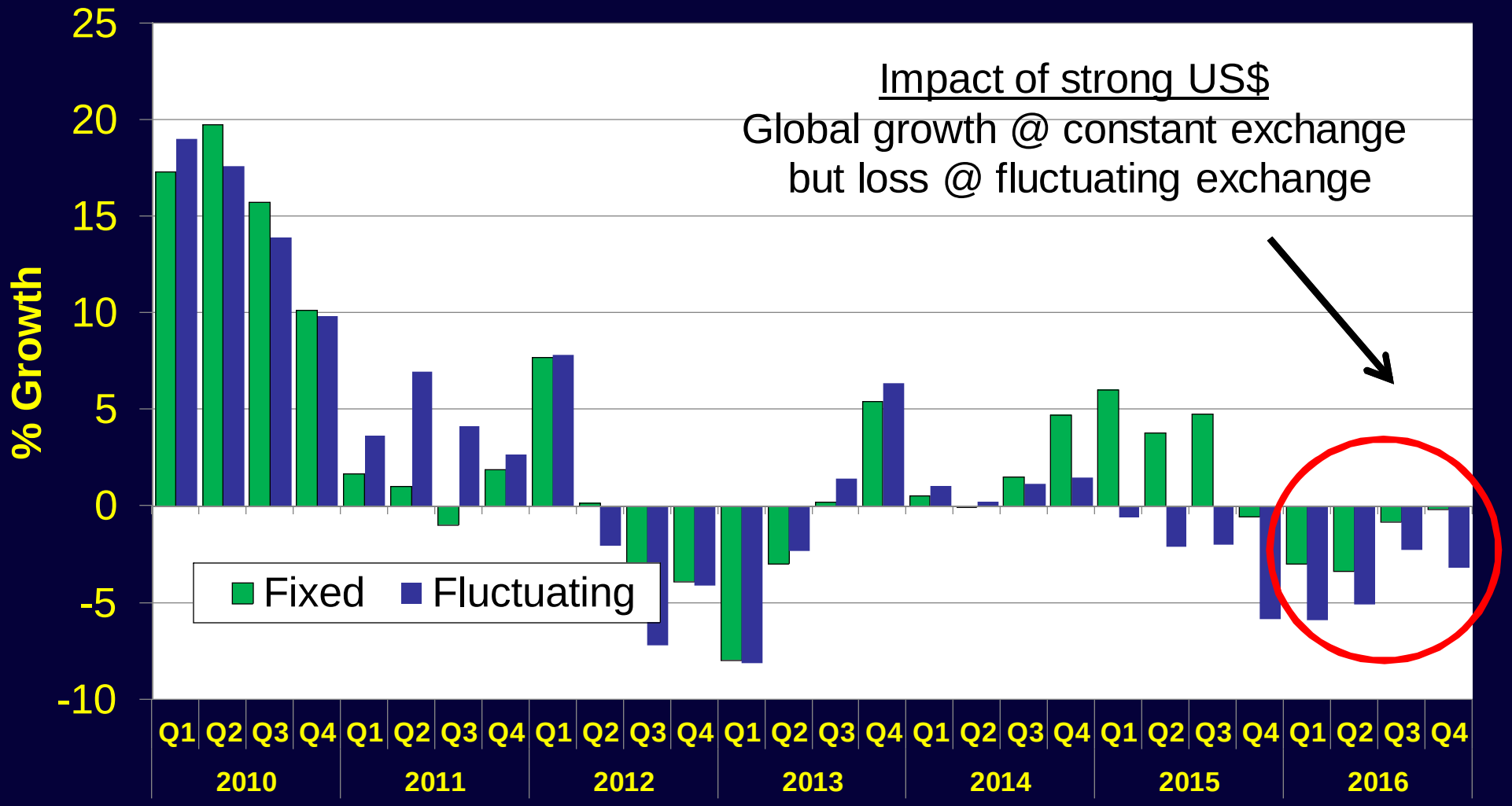


Source: Custer Consulting Group & Electronic Outlook Corp

Chart 4

Exchange Rate Impact on US$ Denominated Consolidated World Electronic Equipment Sales

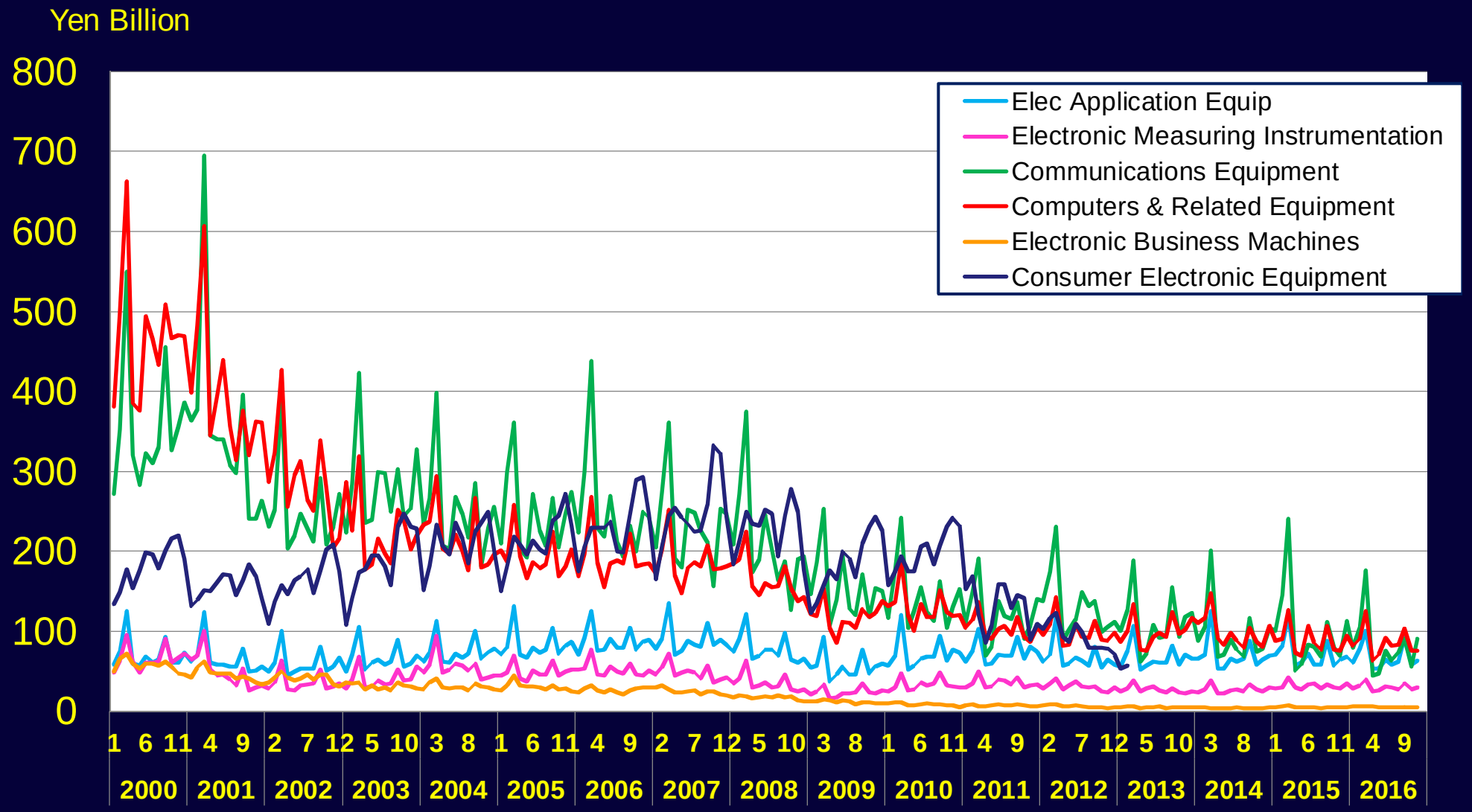
Quarterly Revenue Growth Converted to US$ @ Fixed 2015 vs Fluctuating Exchange



Global model based on regional shipment indices

Chart 5

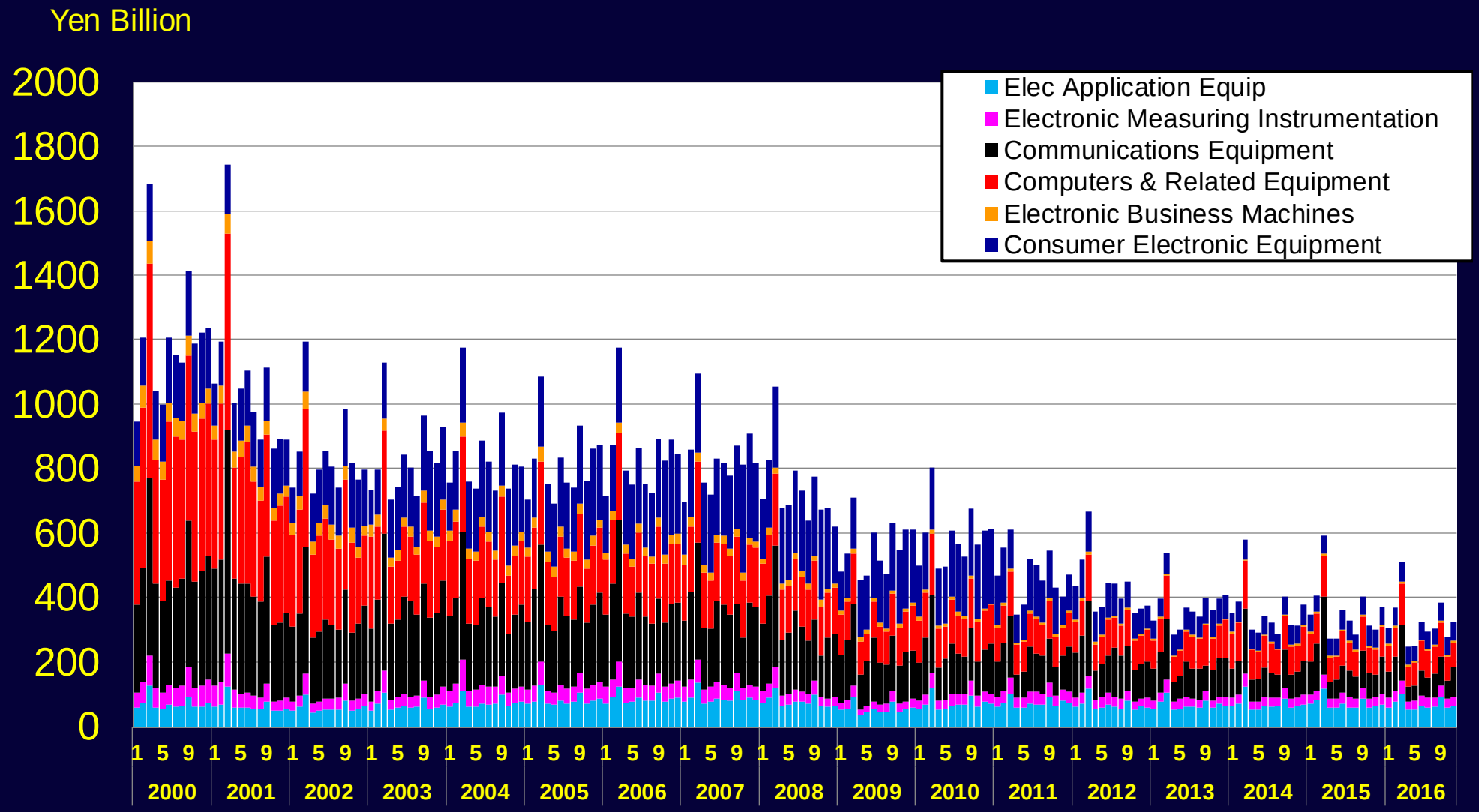
Japan Electronic Equipment Production by Month 2000 to Present



JEITA www.jeita.or.jp/

Chart 6

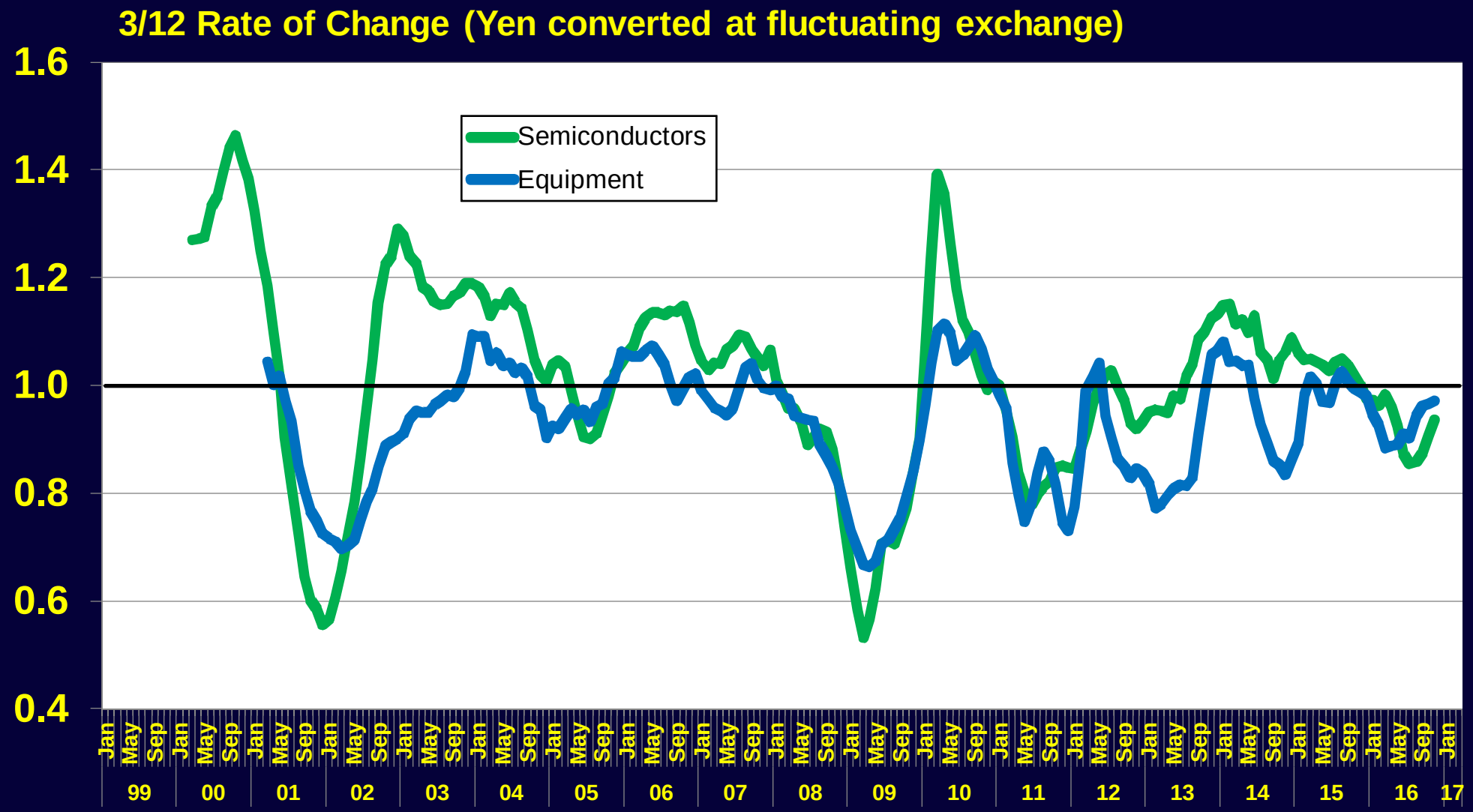
Japan Electronic Equipment Production by Month 2000 to Present



JEITA www.jeita.or.jp/

Chart 7

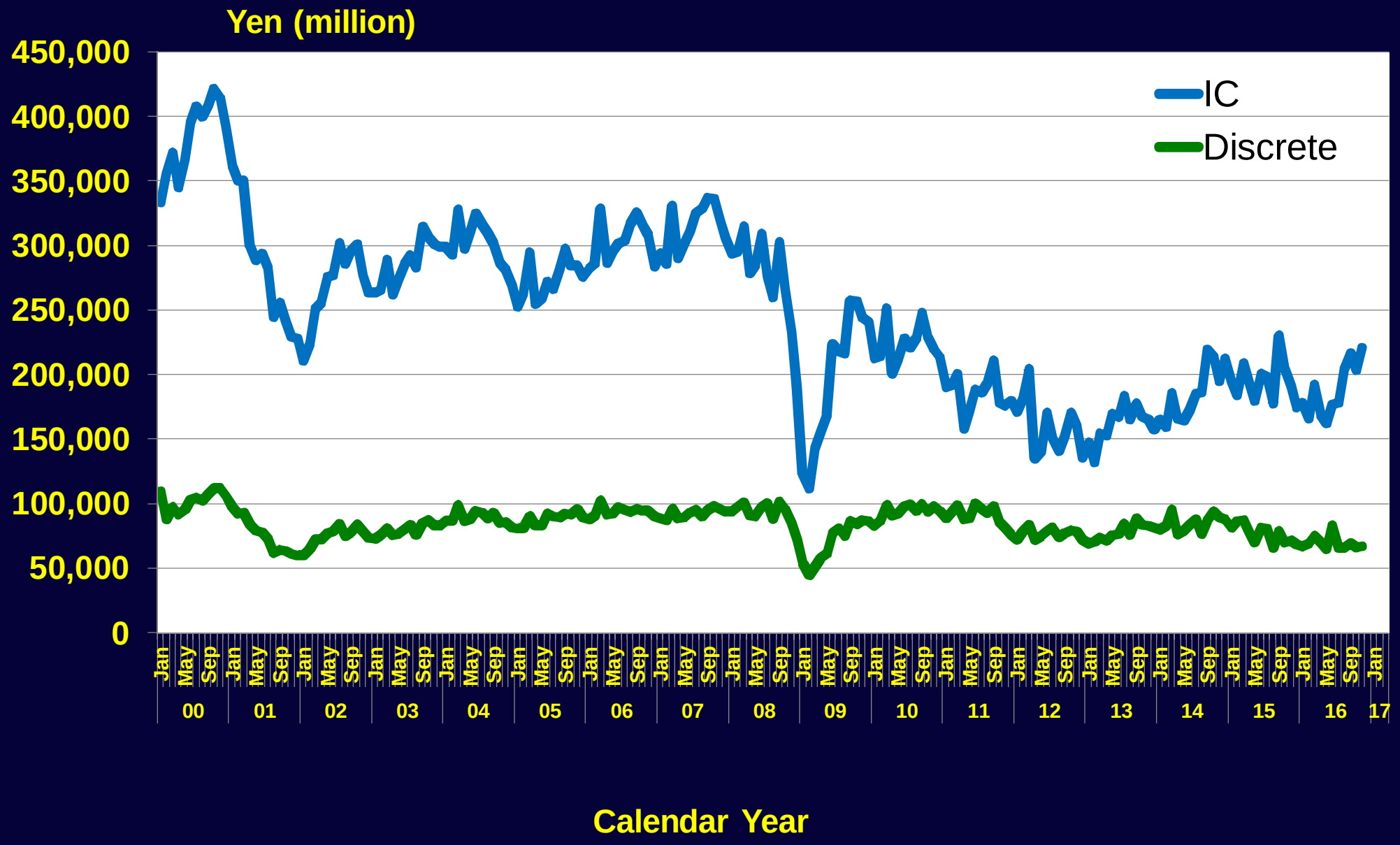
Semiconductor Shipments to Japan vs. Japanese Electronic Equipment Production



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

Chart 8

Japan Integrated Circuit & Discrete Semiconductor Domestic Production



http://www.jeita.or.jp/

Chart 9

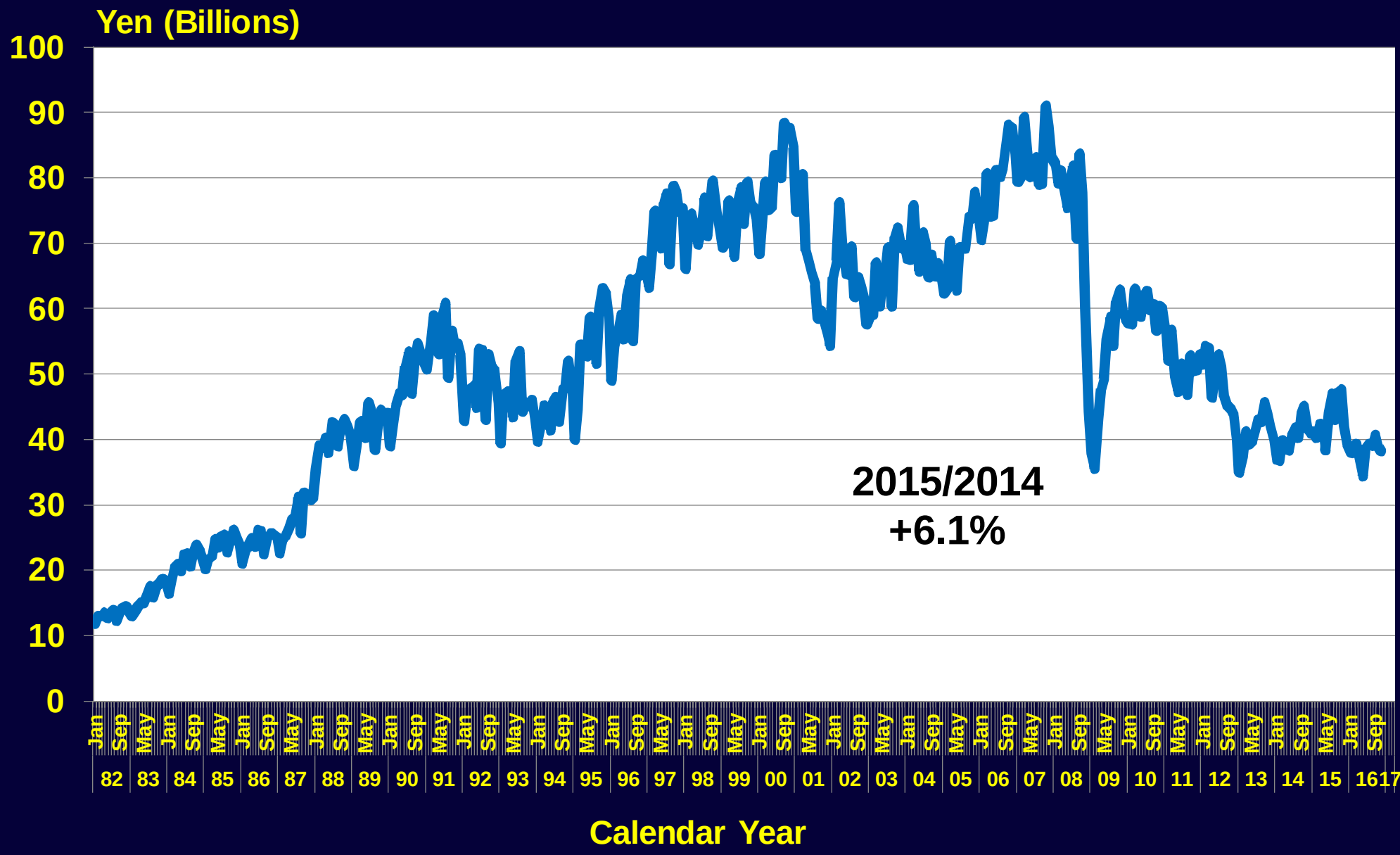
Japan Passive Component Domestic Production



http://www.jeita.or.jp/

Chart 10

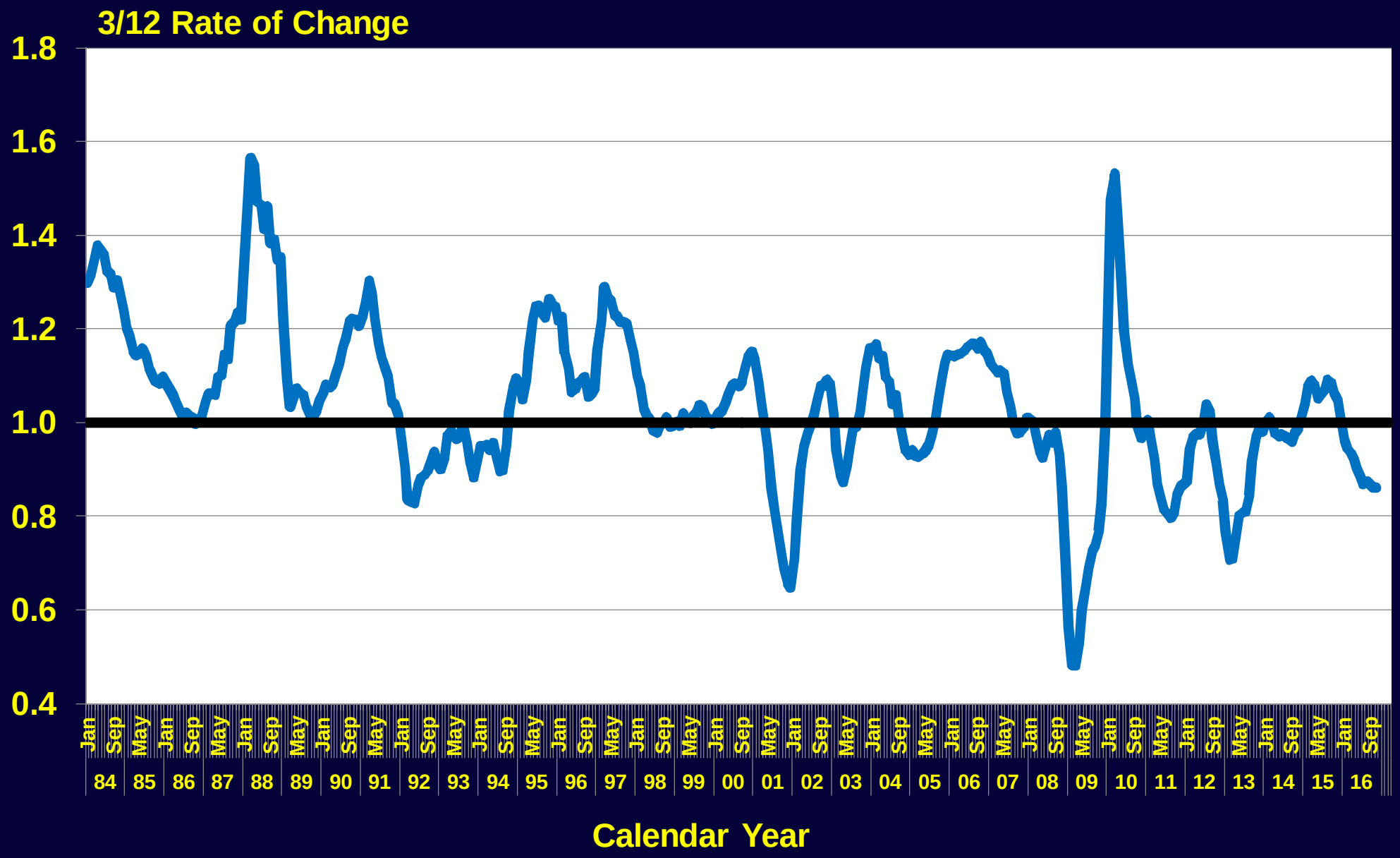
Japan PCB Production



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Chart 11

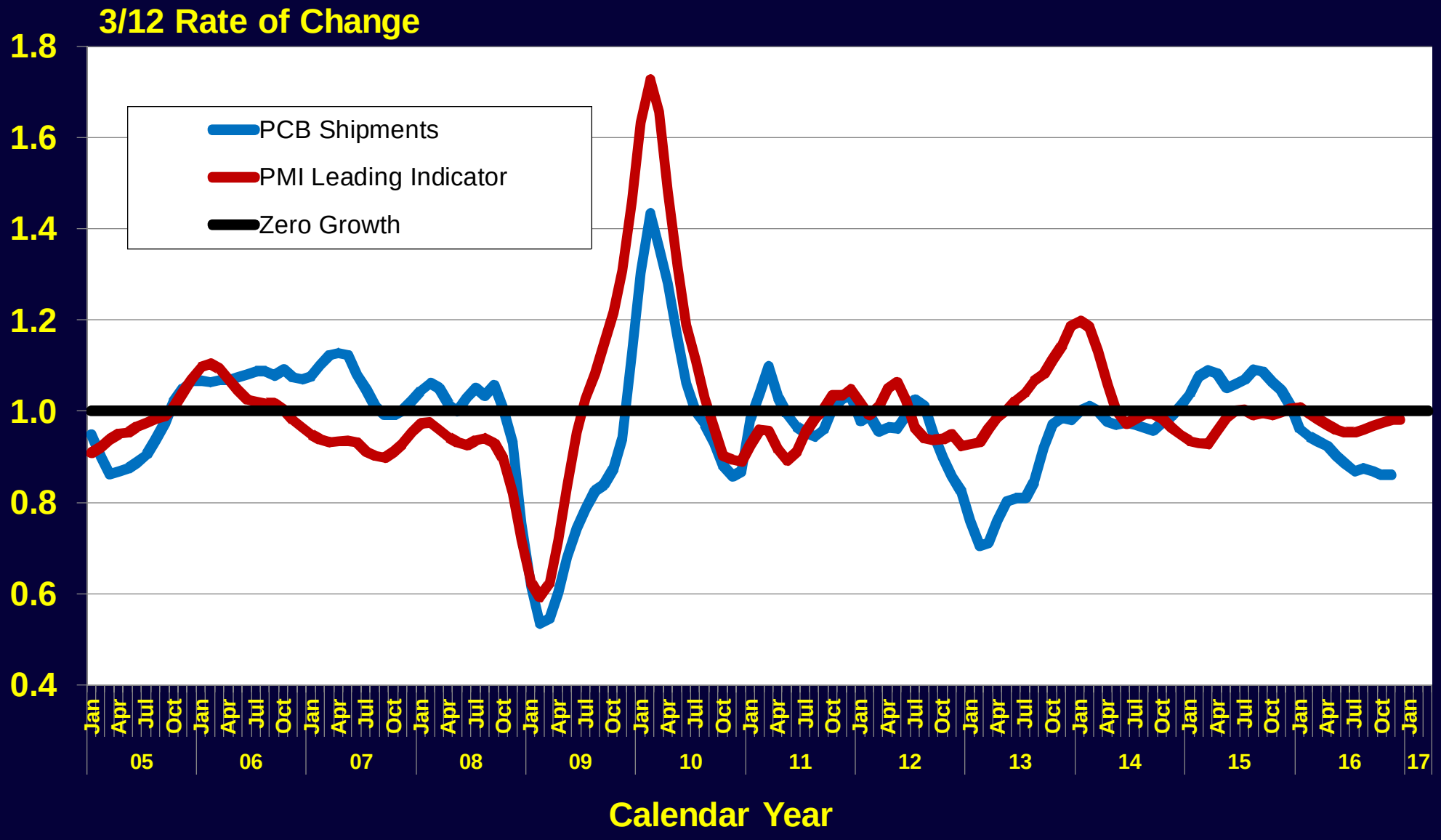
Japan PCB Production



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Chart 12

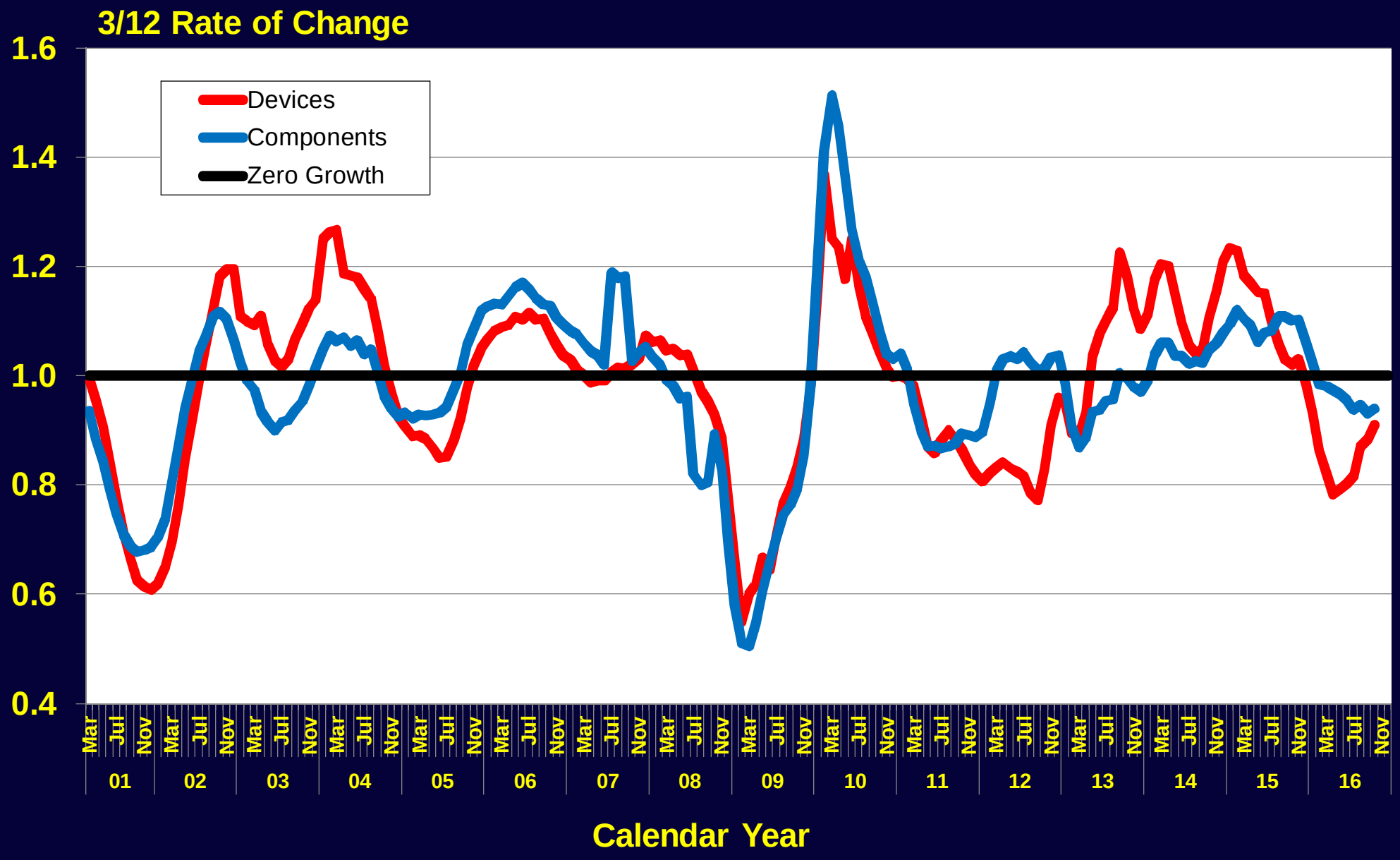
Japan PMI Leading Indicator vs. Japan PCB Shipments



Source: Custer Consulting Group

Chart 13

Japanese Electronic Component & Device Production



JEITA www.jeita.or.jp/

Chart 14

2016 Worldwide Semiconductor Vendors
Top 10 by Revenue (US$ millions)

Rank	Maker	2016	2016/2015
1	Intel	53,996	4.5%
2	Samsung Electronics	40,143	6.1%
3	Qualcomm	15,351	- 4.5%
4	SK Hynix	14,267	-12.9%
5	Broadcom (former Avago)	13,149	152.1
6	Micron Technology	12,585	- 8.9%
7	Texas Instruments	11,776	2.1%
8	Toshiba	10,051	9.7%
9	NXP	9,170	40.1%
10	MediaTek	8,697	29.7%
	Others	150,499	-5.8%
	Total	339,684	1.5%

Chart 15

India Electronic Components Market 2015-16 (US$ Millions)

	Market	Production	Exports	Imports
Active	3,240	119	608	3,729
Growth% 15-16/14-15	9	7	2	
Passive	4,789	2,375	1,557	3,971
Growth% 15-16/14-15	21	23	15	
Electro-mechanical	5,430	3,556	2,066	3,940
Growth% 15-16/14-15	17	26	9	
Associated	5,402	885	1,165	5,682
Growth% 15-16/14-15	17	17	8	
Electronic Components Total	18,899	7,007	5,430	17,322
Growth% 15-16/14-15	17	17	8	