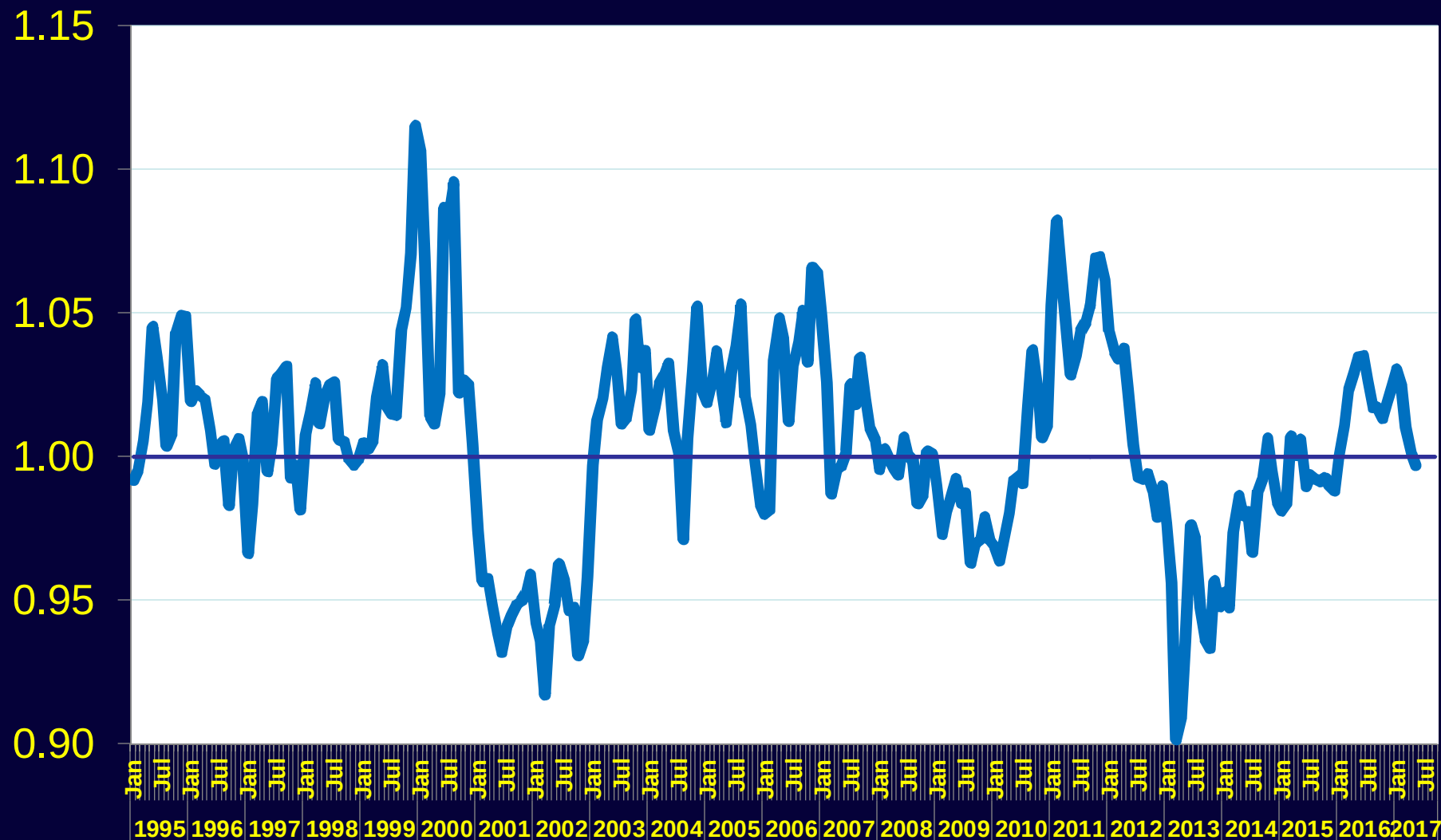


Chart 1
Chart 1

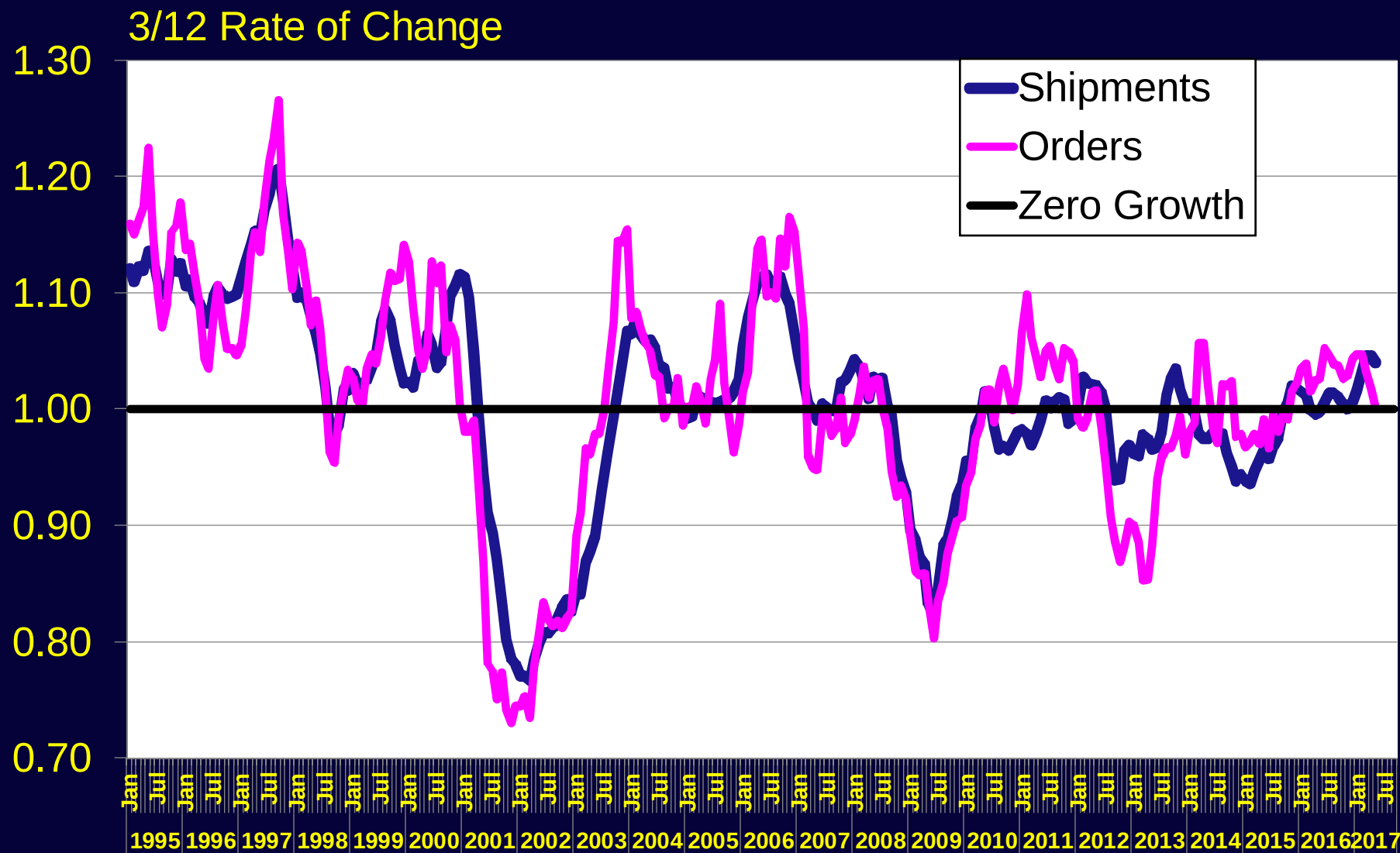
U.S. Electronic Equipment Book/Bill Ratio

3-Month Average



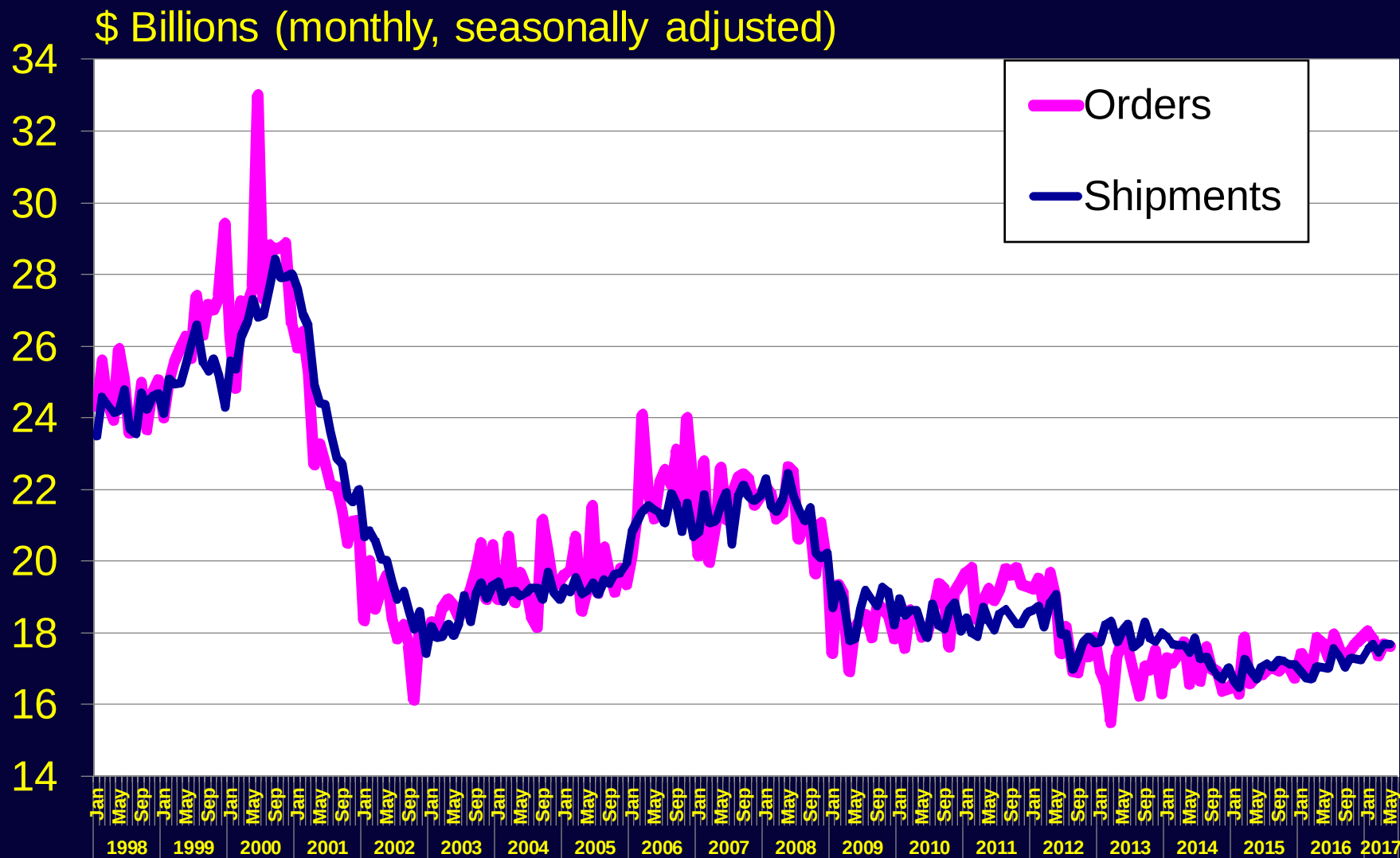
U.S. Electronic Equipment Order & Shipment Growth

Computer, Communications, Measurement & Control and Military

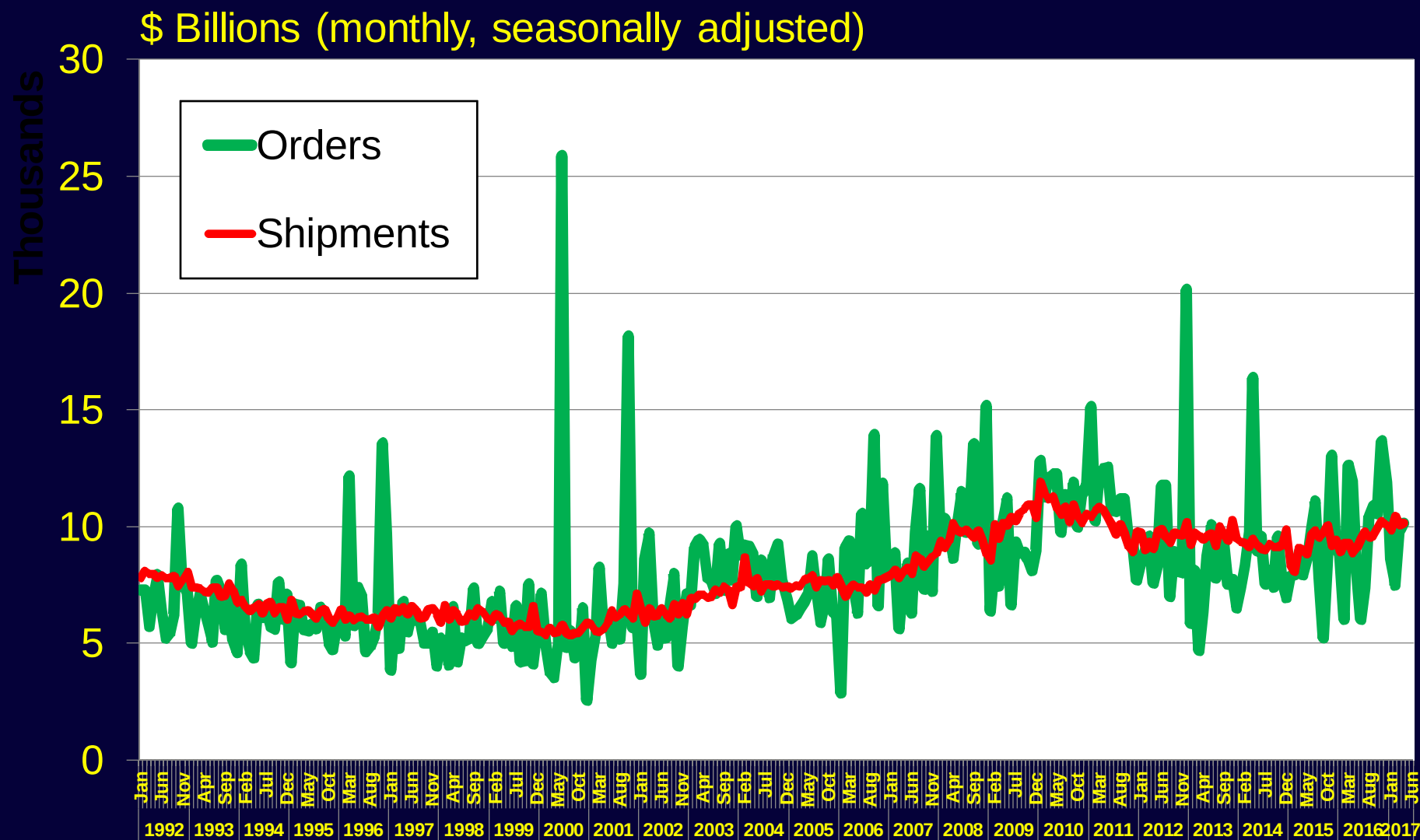


U.S. Electronic Equipment Orders & Shipments

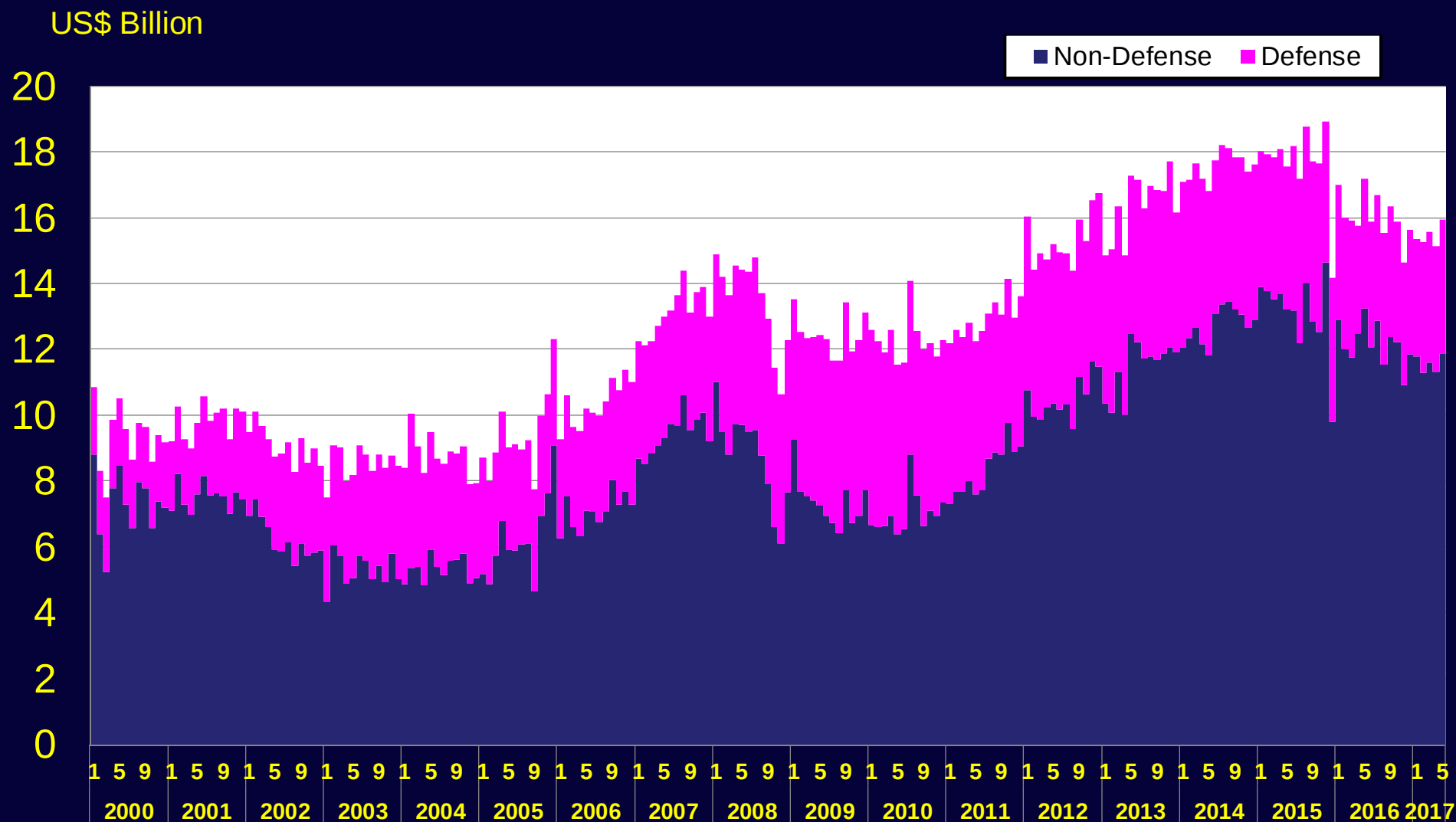
Computer, Communications, Measurement & Control and Military



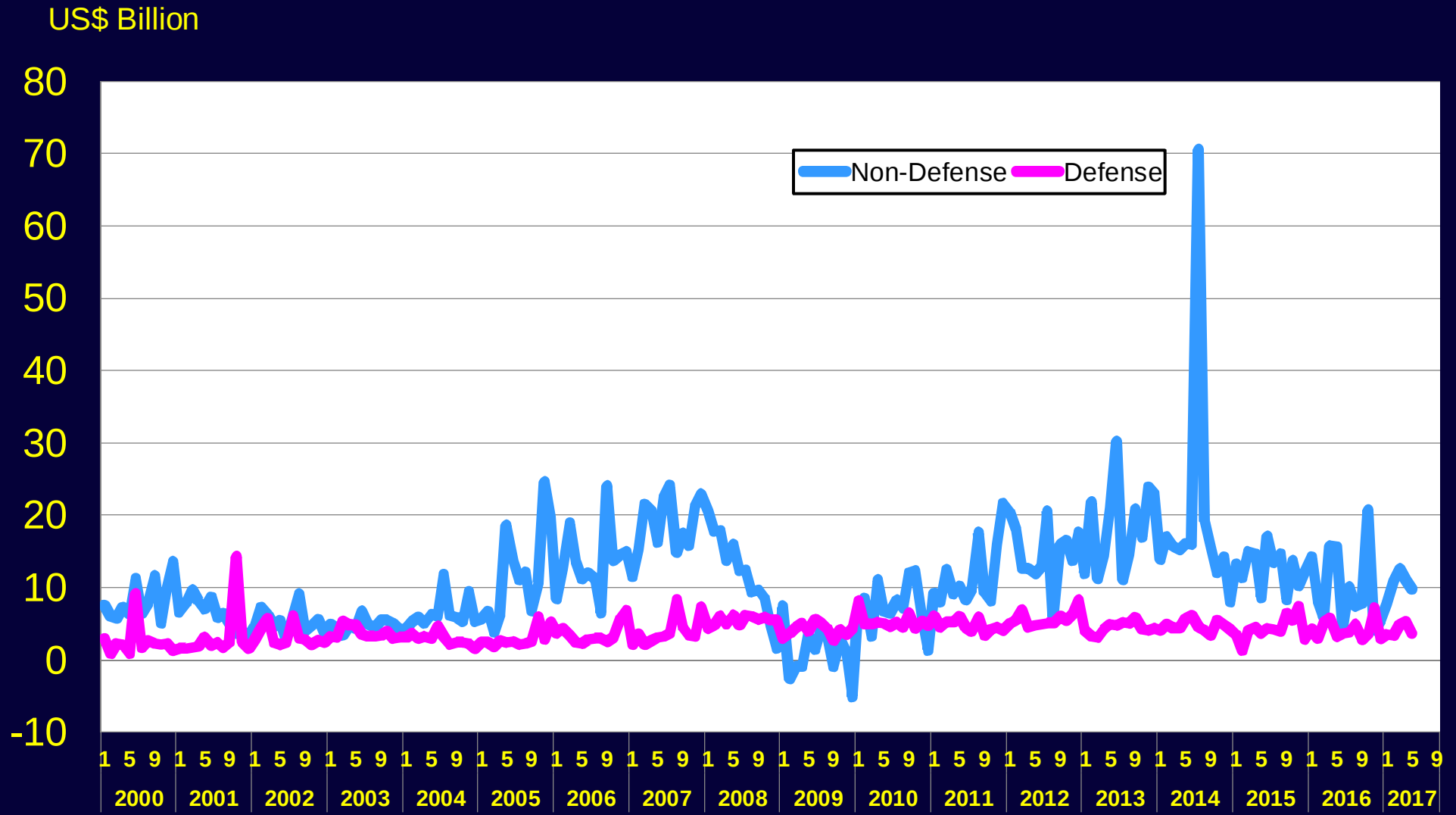
U.S. Defense Capital Goods Orders & Shipments



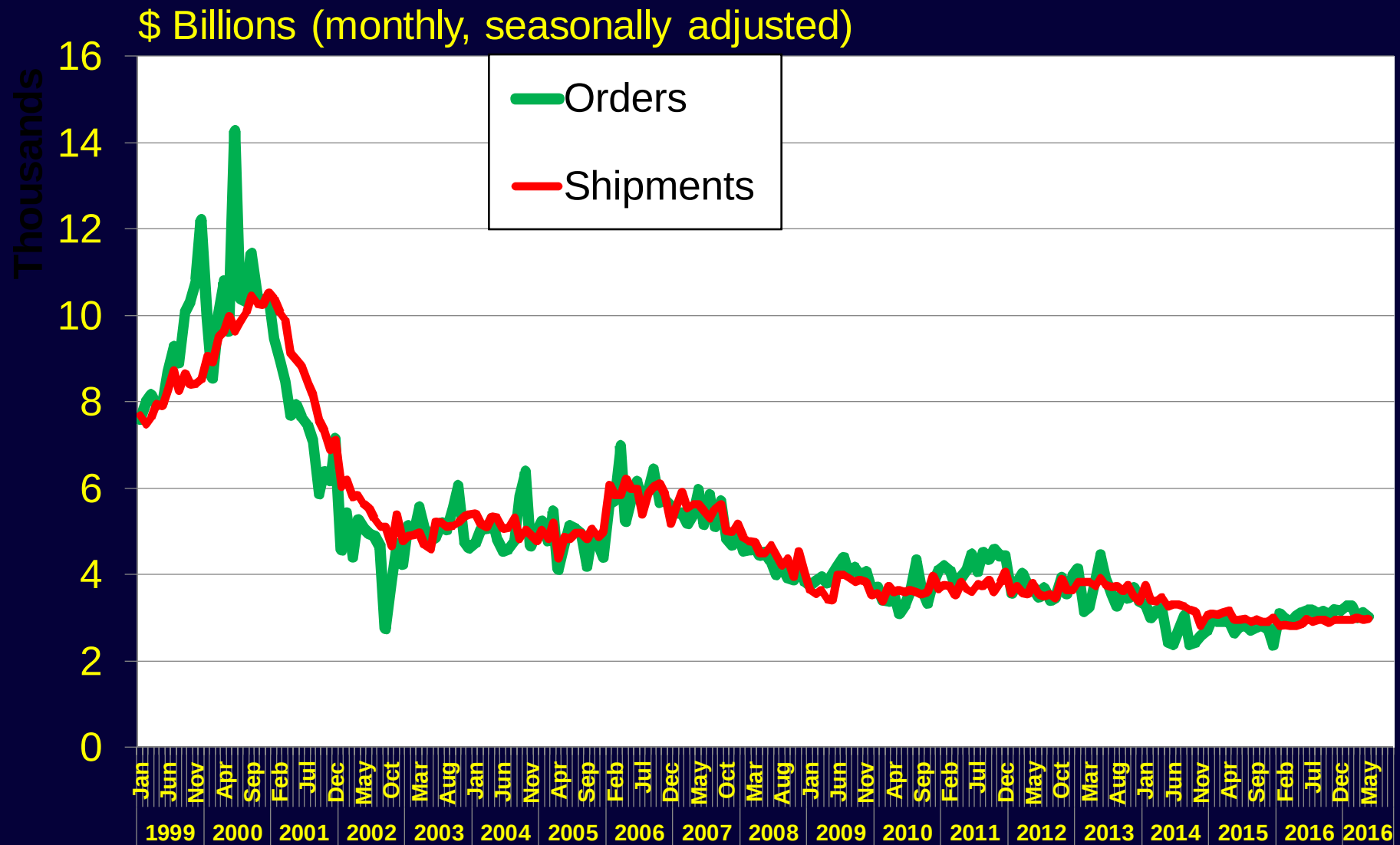
U.S. Aircraft & Parts Shipments



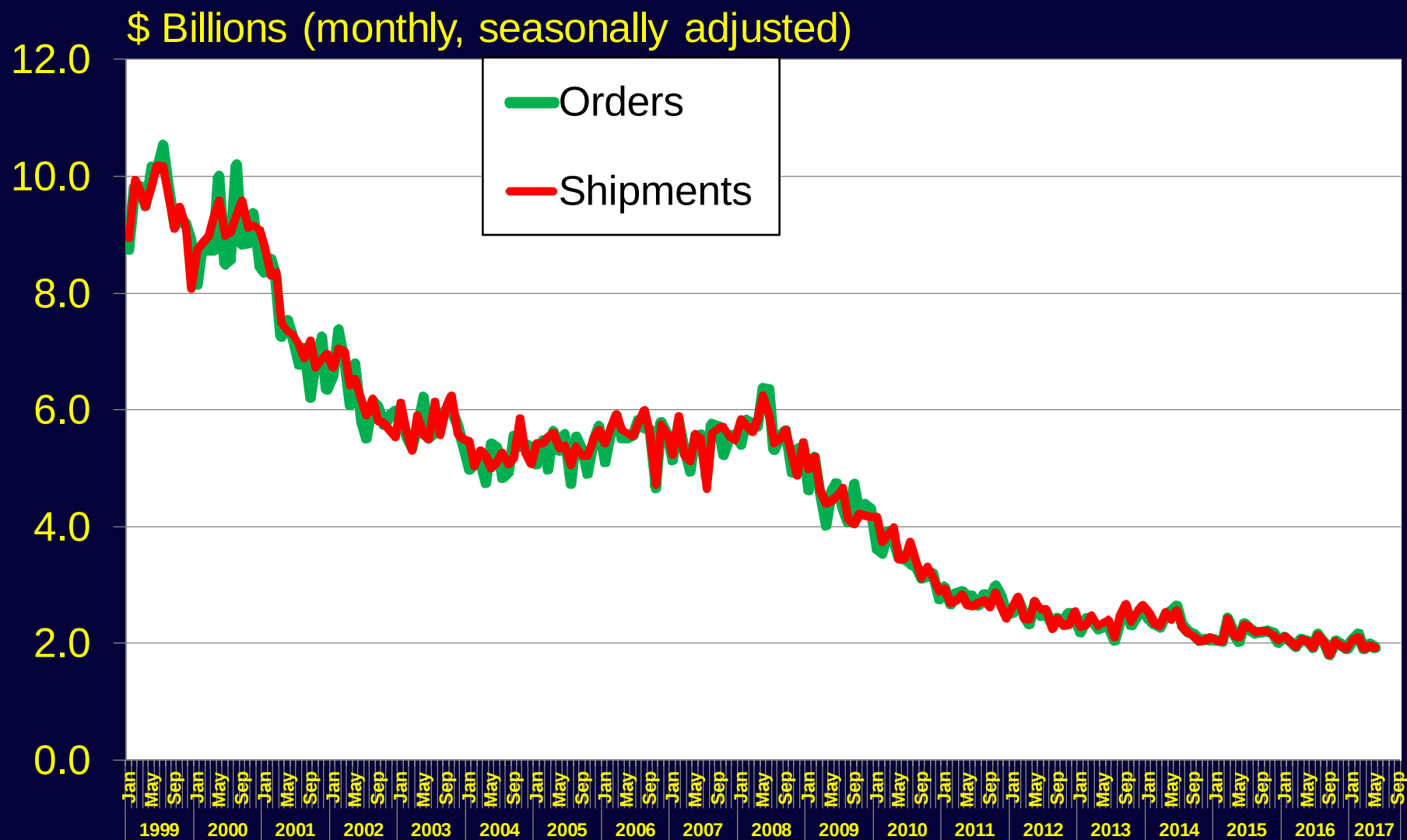
U.S. Aircraft & Parts Orders



U.S. Communication Equipment Orders & Shipments

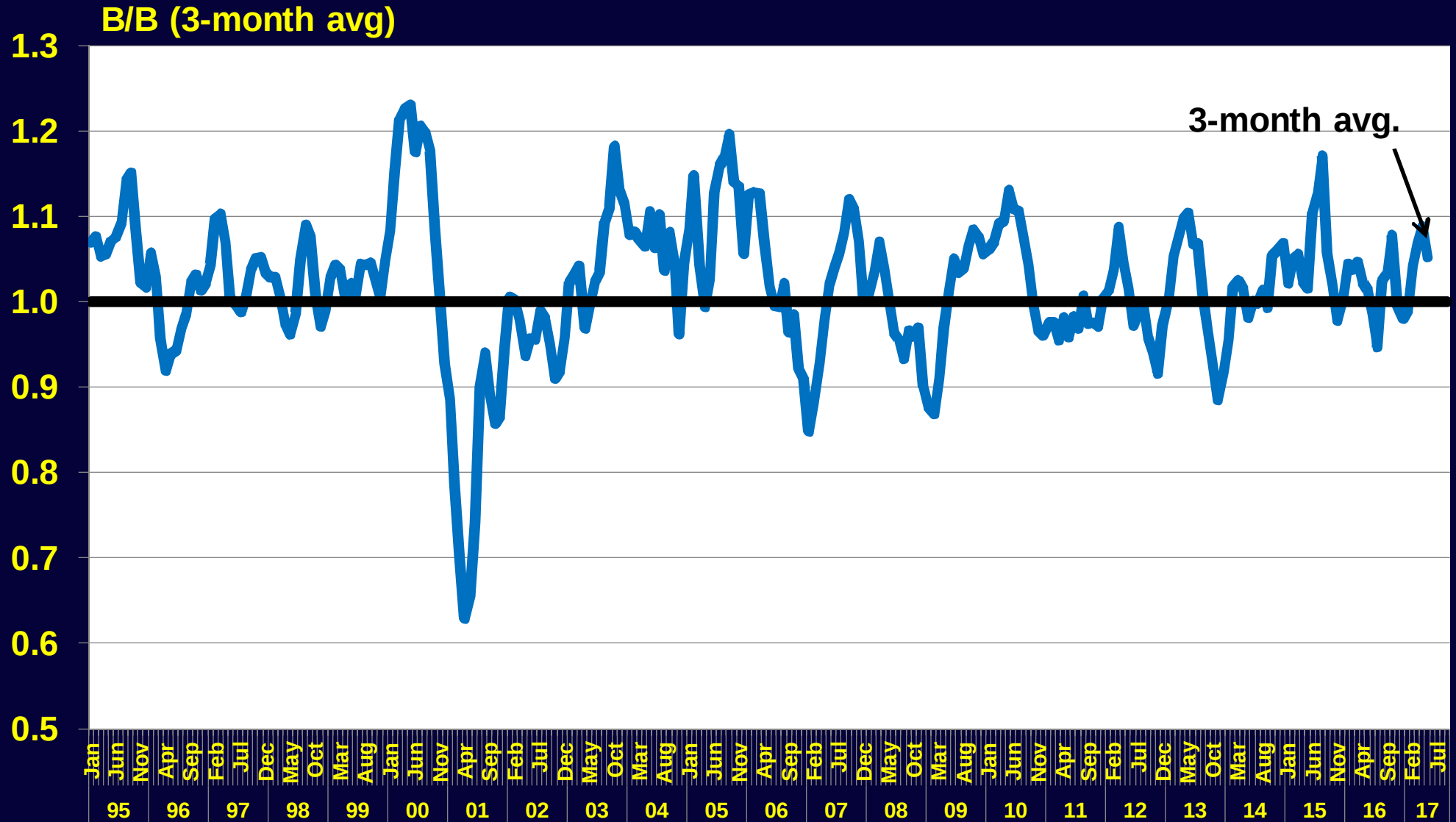


U.S. Computers & Related Products Orders & Shipments

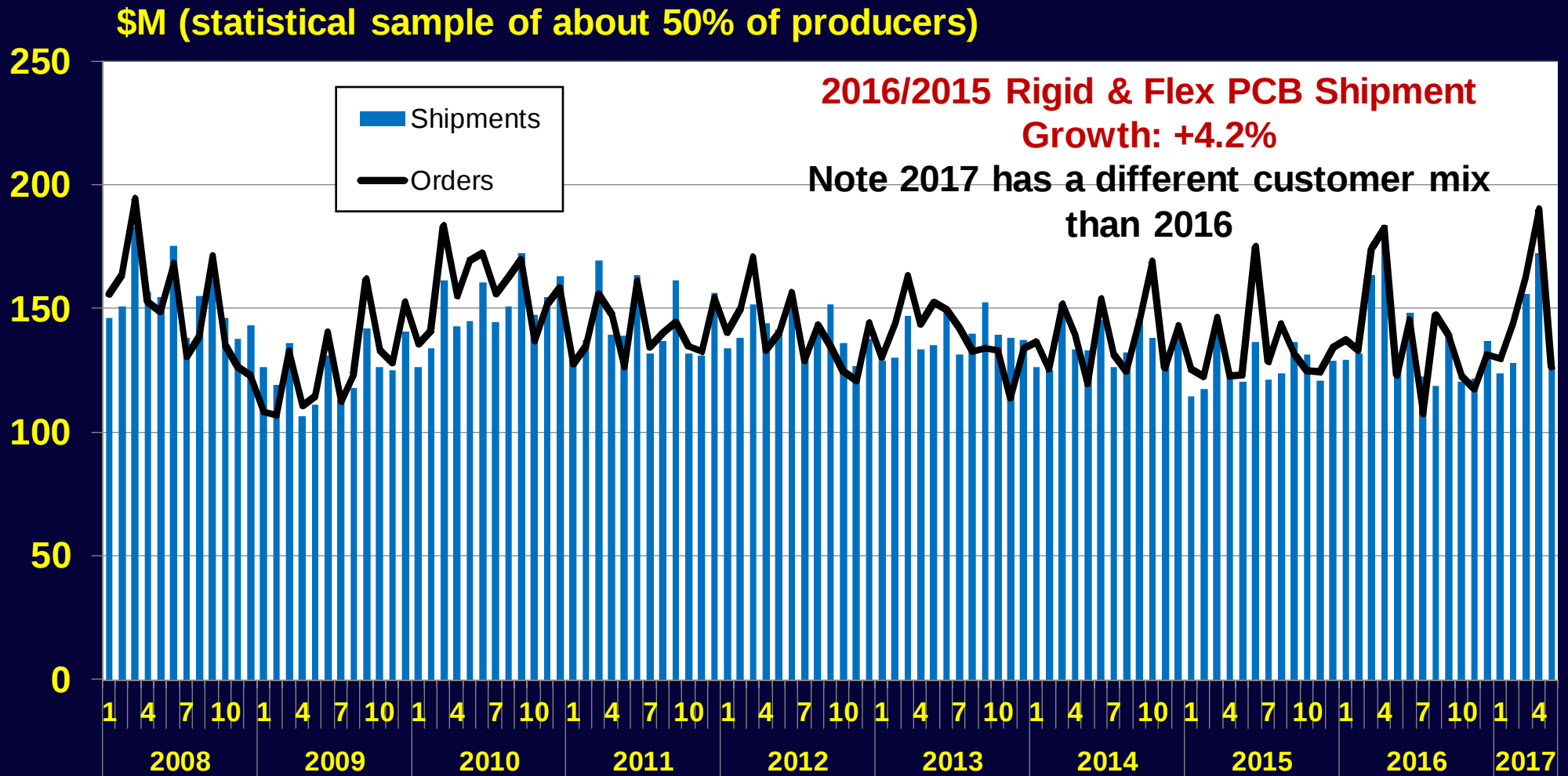


Rigid & Flexible PCB Book/Bill

N. America

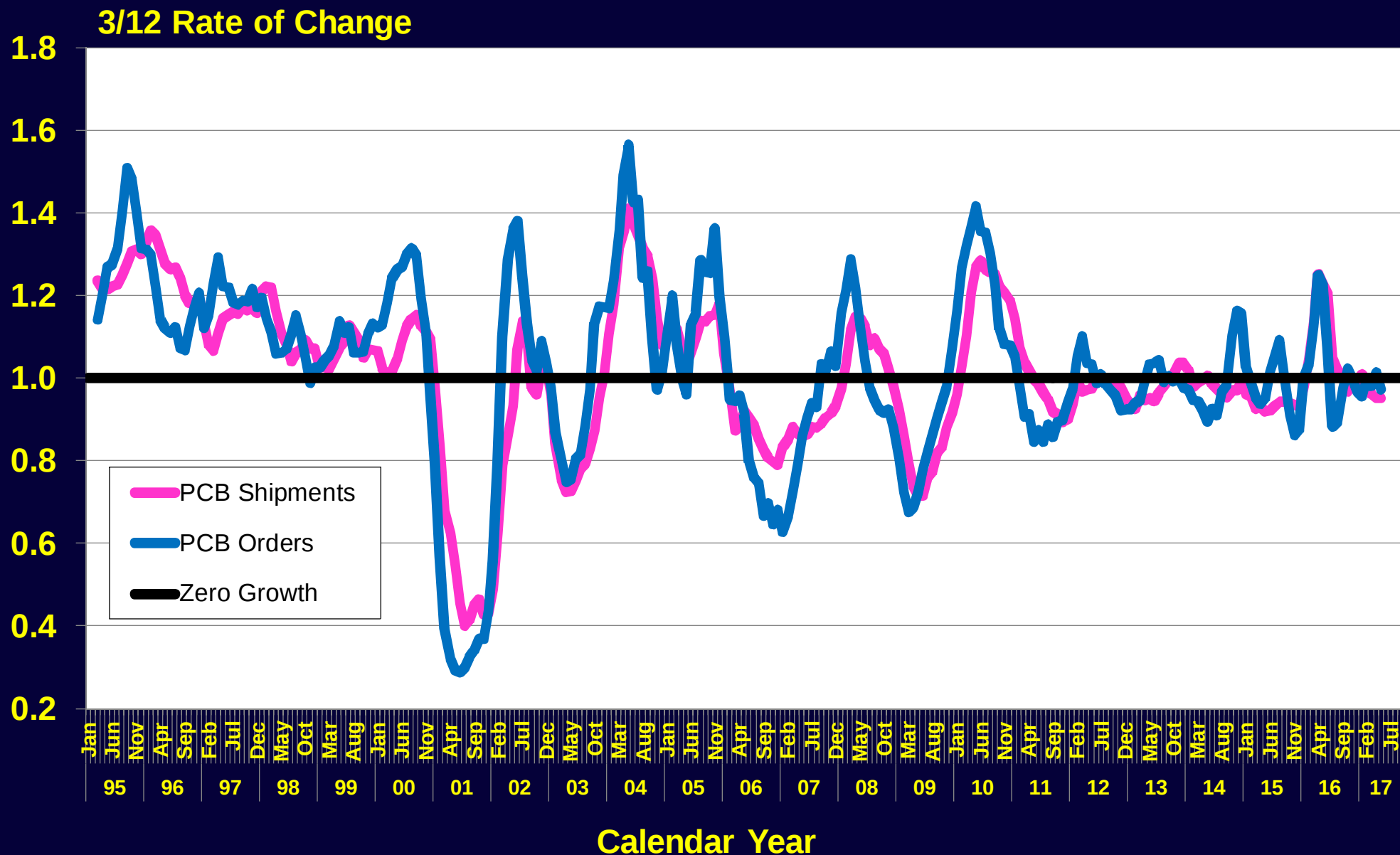


N American Rigid & Flexible PCB Shipments & Orders

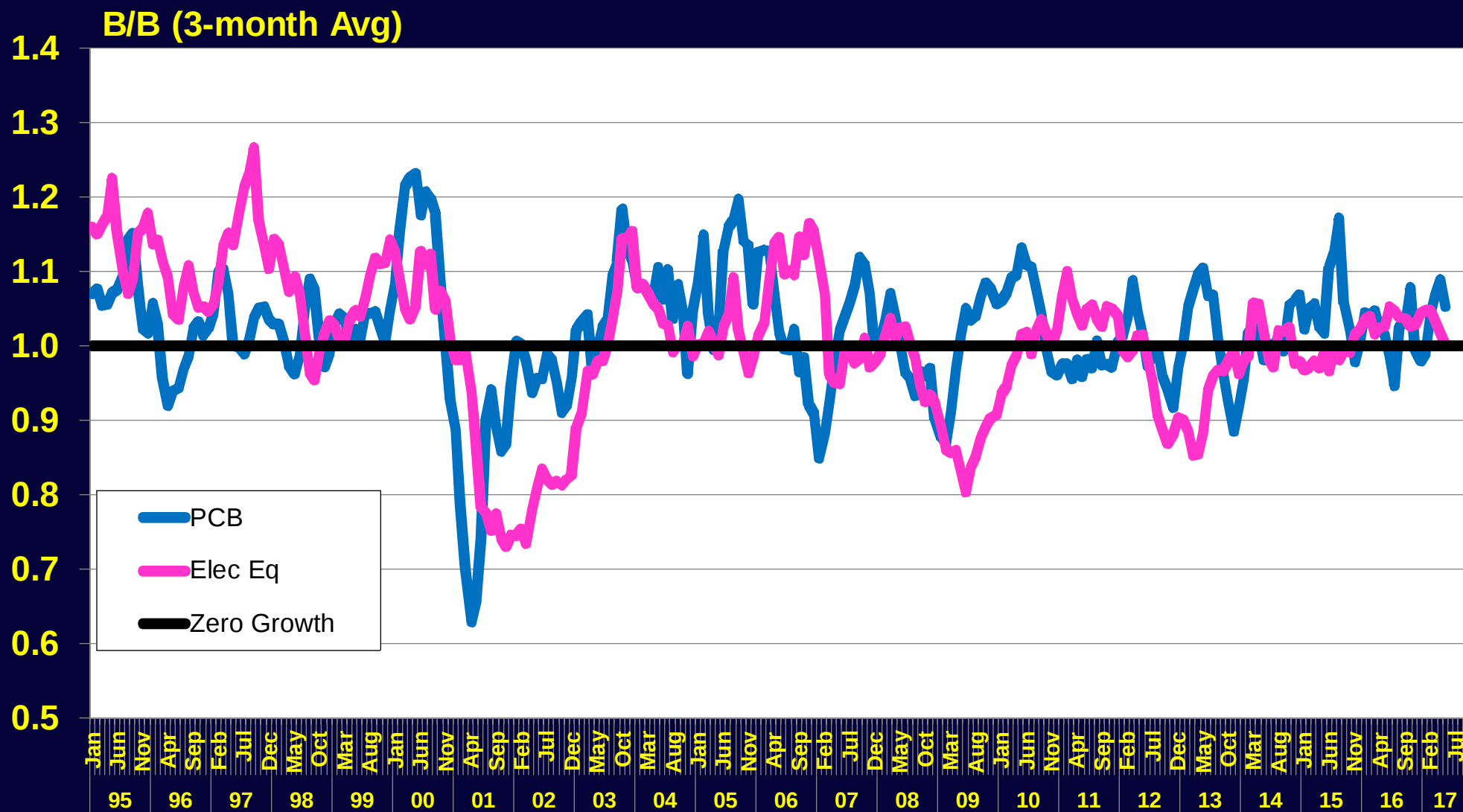


Note: IPC survey captures "market" not domestic production. About 15% of the above represents imported boards resold by N American PCB producers in survey.

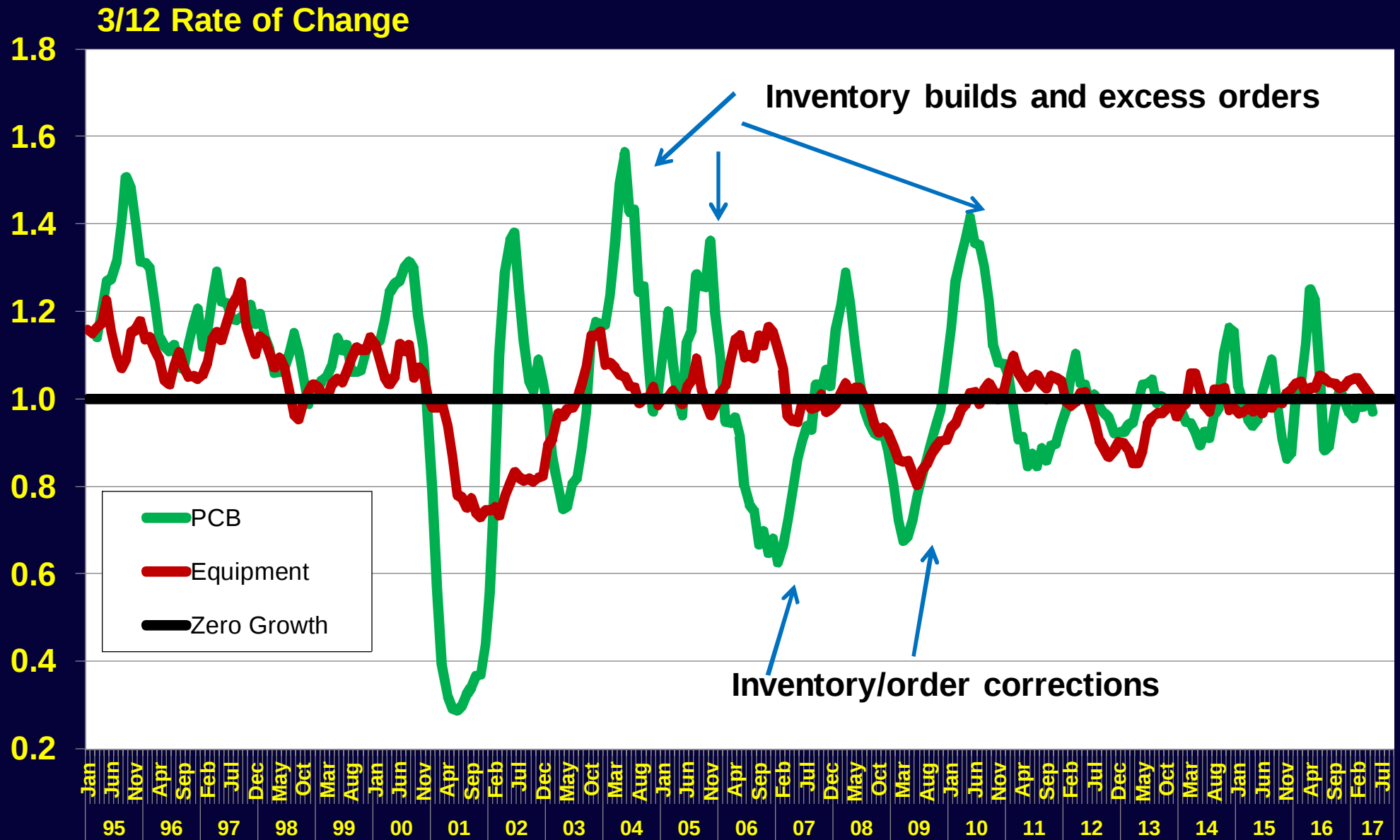
N. America Rigid & Flexible PCB Orders & Shipments



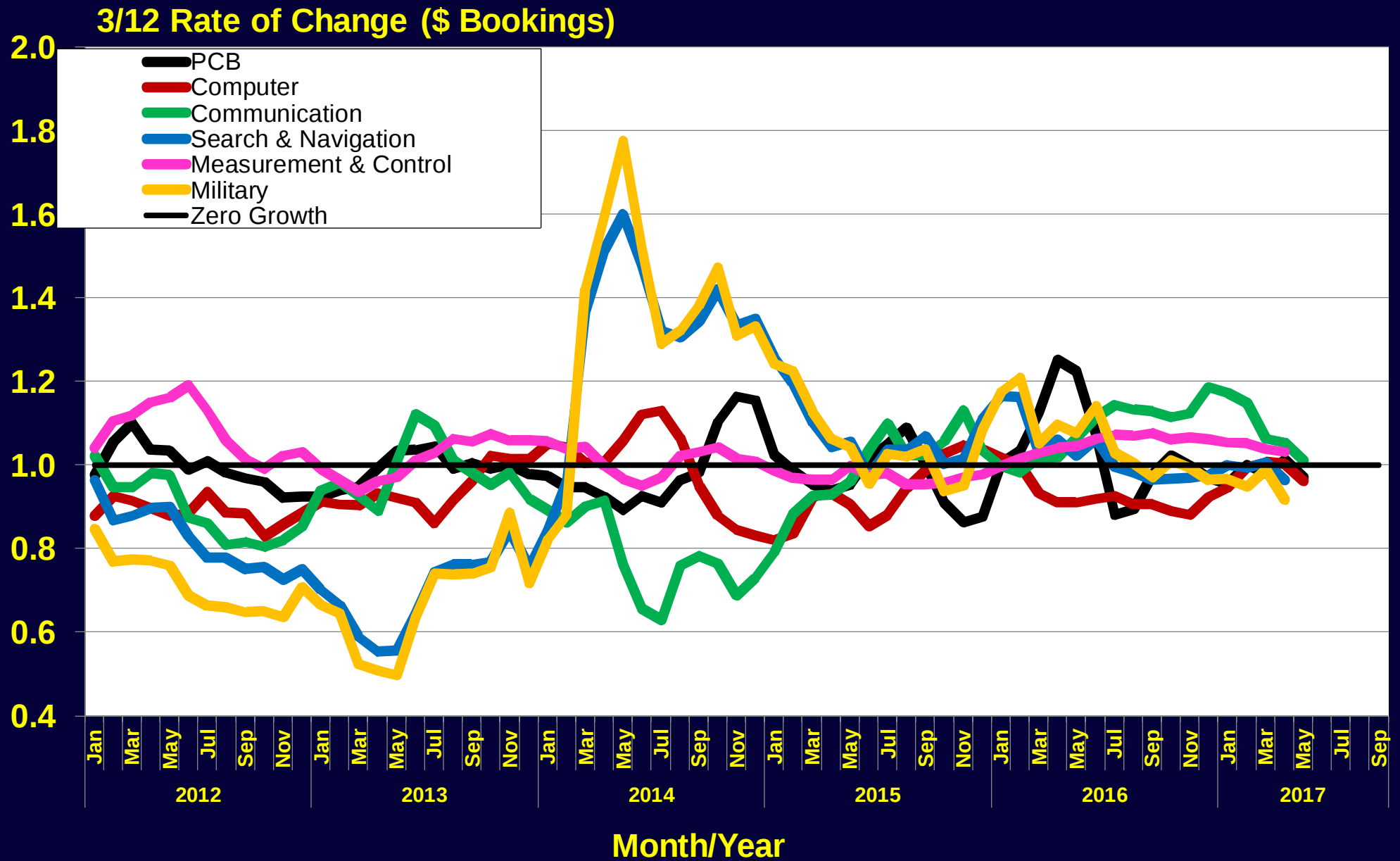
N American Rigid & Flex PCB & U.S. Electronic Equipment Book/Bill Ratios



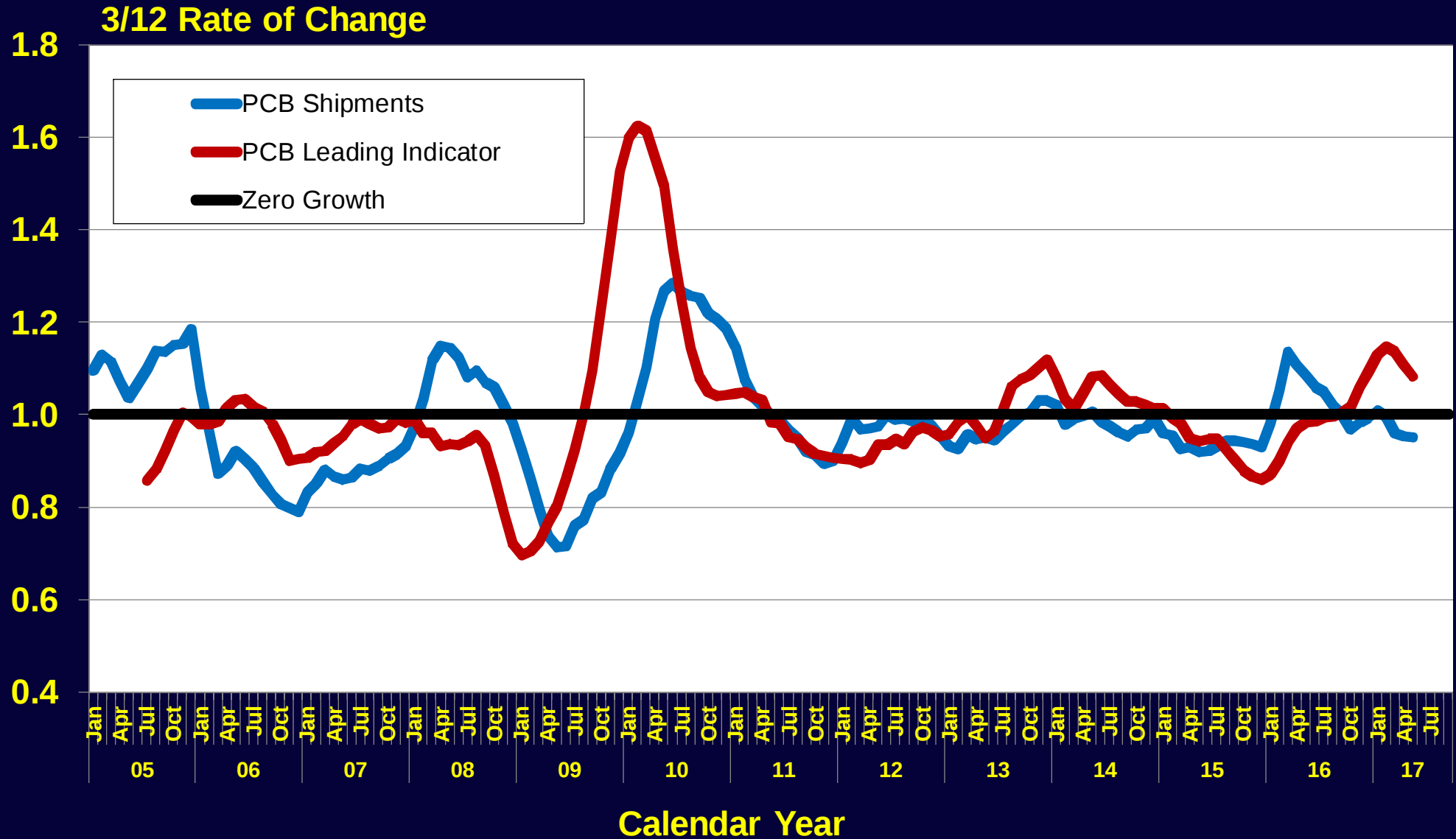
U.S. Electronic Equipment vs. Rigid & Flex PCBs \$ Order Growth



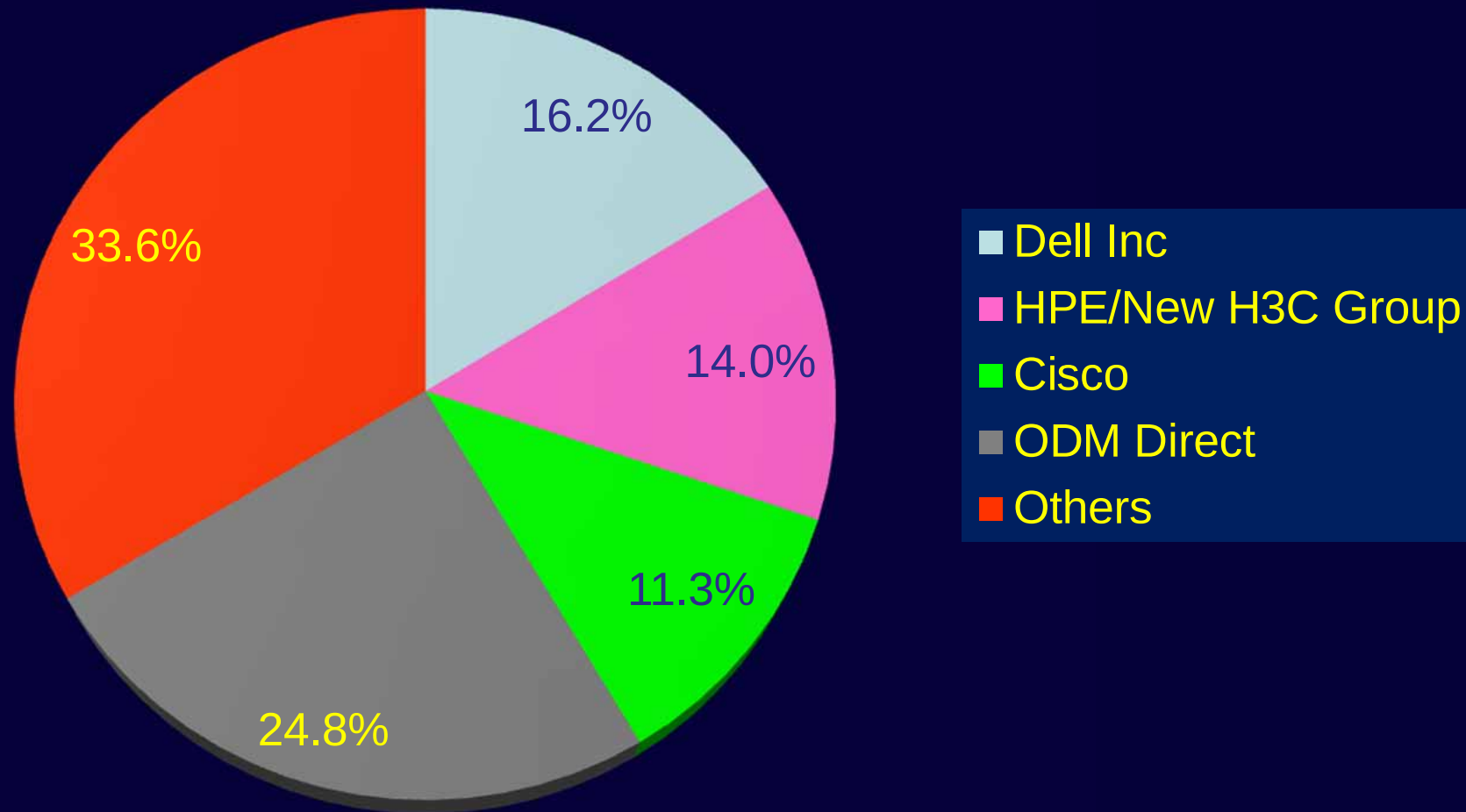
U.S. Rigid & Flex PCB vs. Electronic Equipment Orders



N America CCG PCB Leading Indicator vs. N America Rigid & Flex PCB Shipments

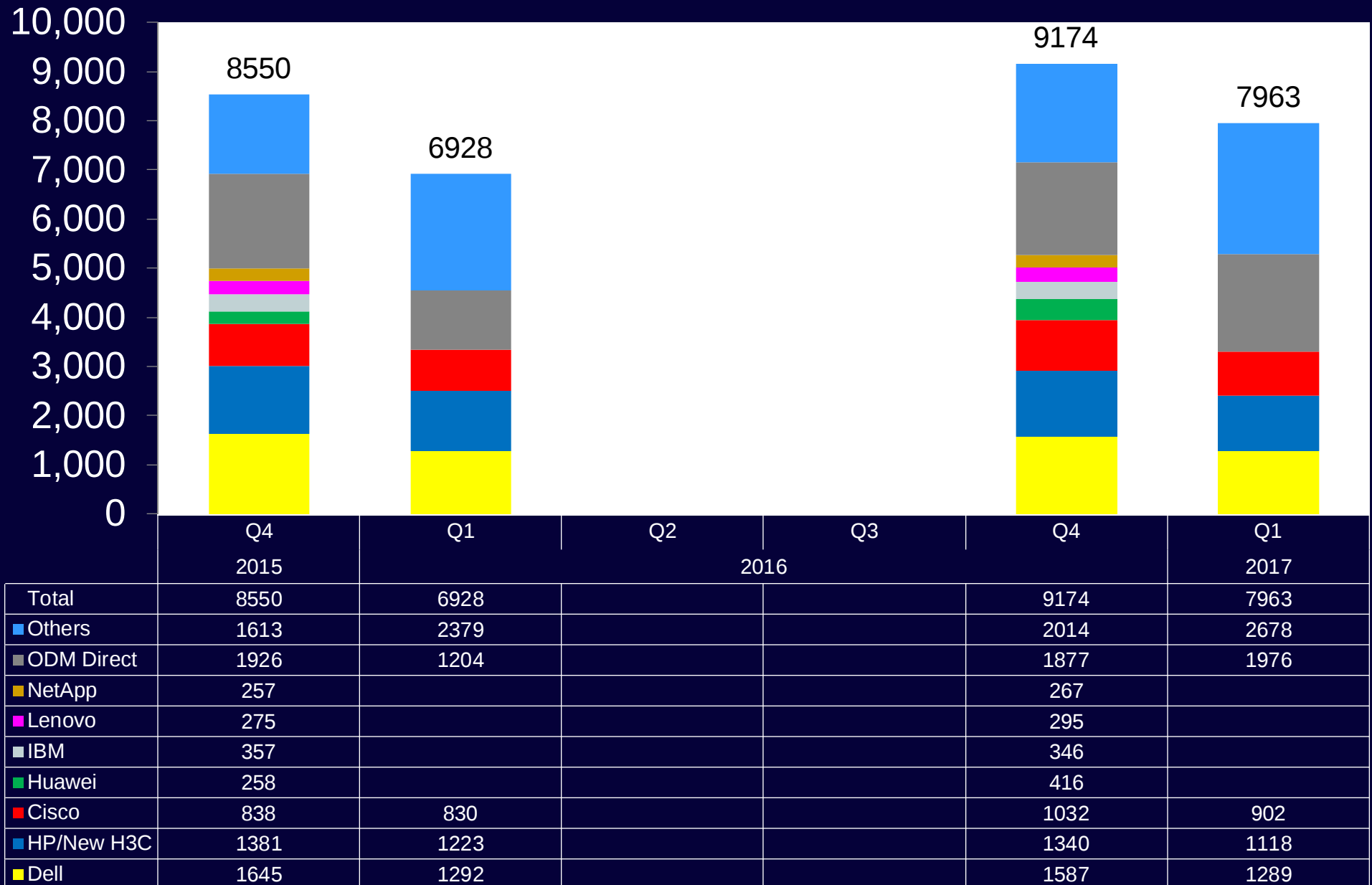


Worldwide Cloud IT Infrastructure Revenue 1Q'17

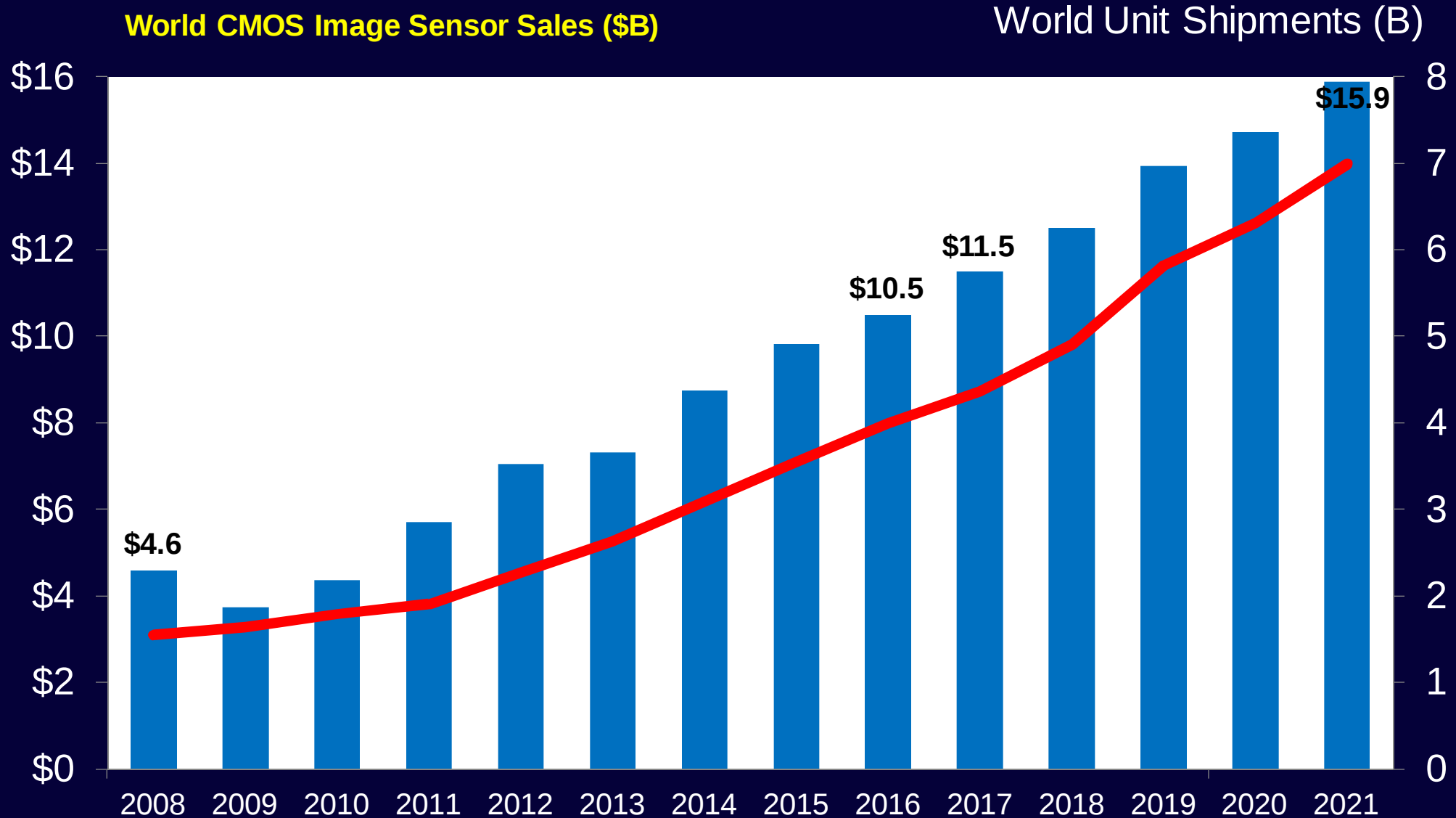


1Q'17 World Total US\$ 7.96 Million

Worldwide Cloud IT Infrastructure Revenue



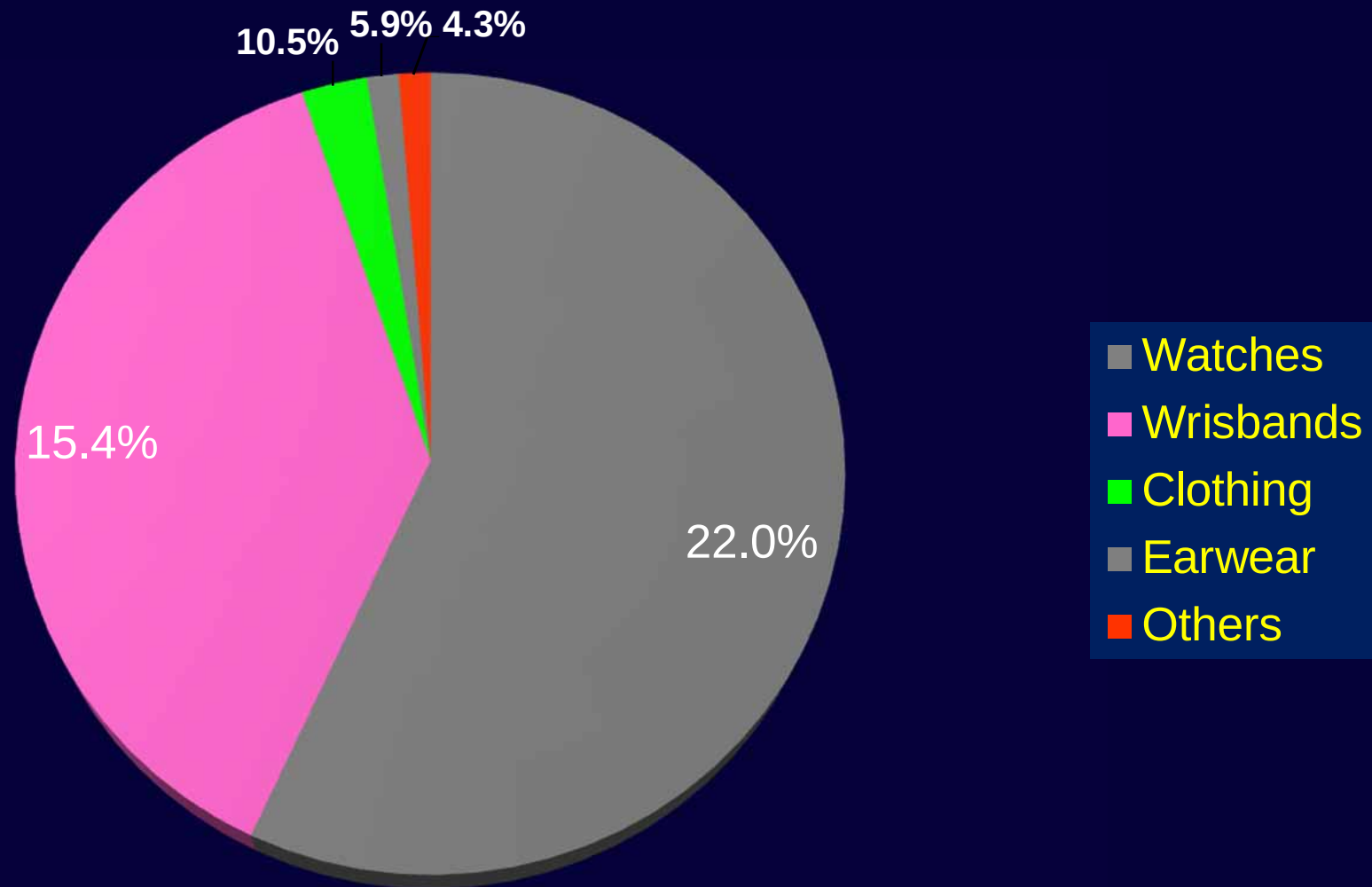
CMOS Image Sensor Growth



Wearable Devices

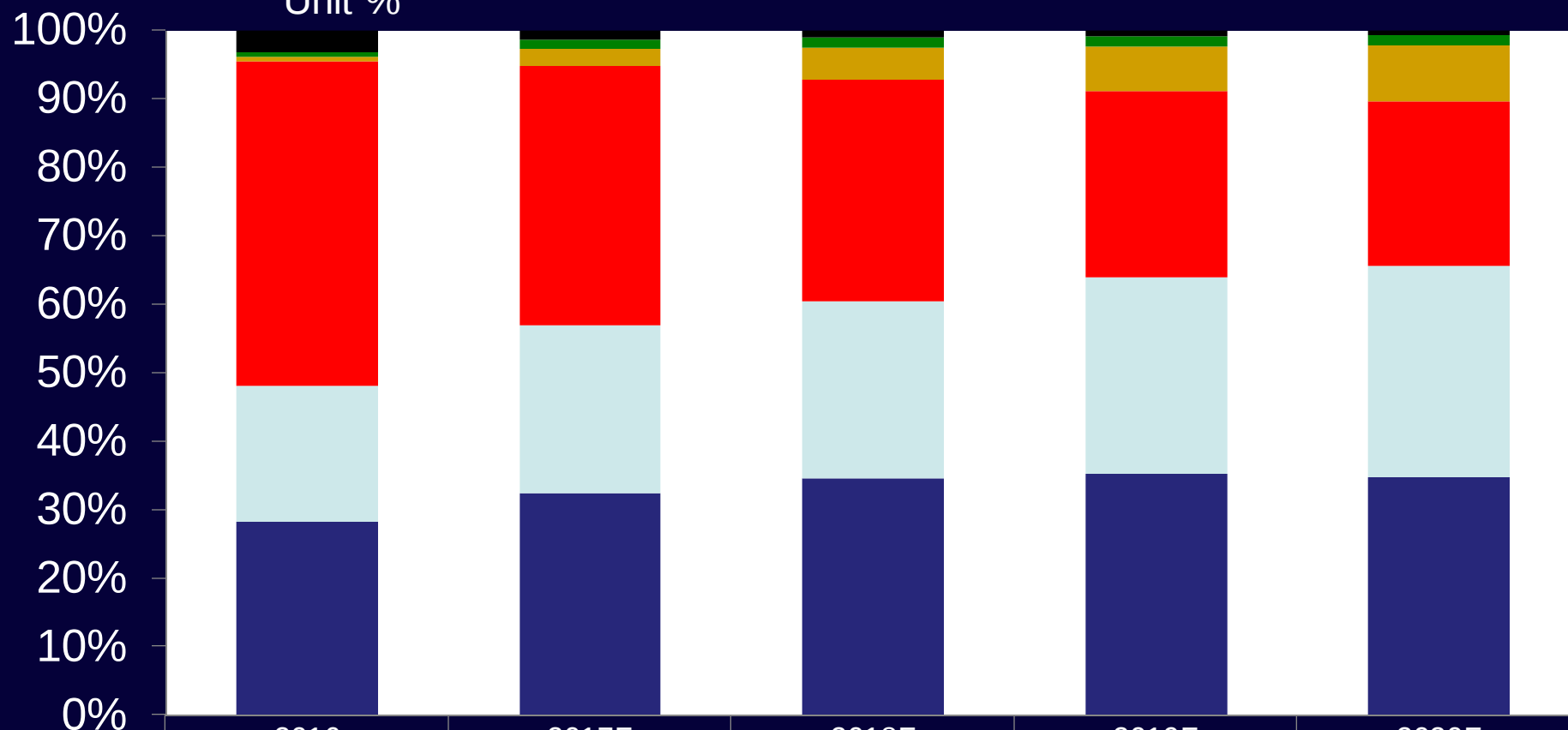
2017

Units



Worldwide Wearable Devices Market Share by Product Type

Unit %



Other	3.1	1.3	1.0	0.8	0.6
Earwear	0.7	1.3	1.5	1.5	1.6
Clothing	0.7	2.6	4.7	6.6	8.2
Wrist Band	47.2	37.9	32.3	27.1	23.9
Smart Watches	19.7	24.5	25.9	28.8	31.0
Basic Watches	28.1	32.5	34.7	35.2	34.7

China "Purchasing Managers" Indices

>50 = Growth

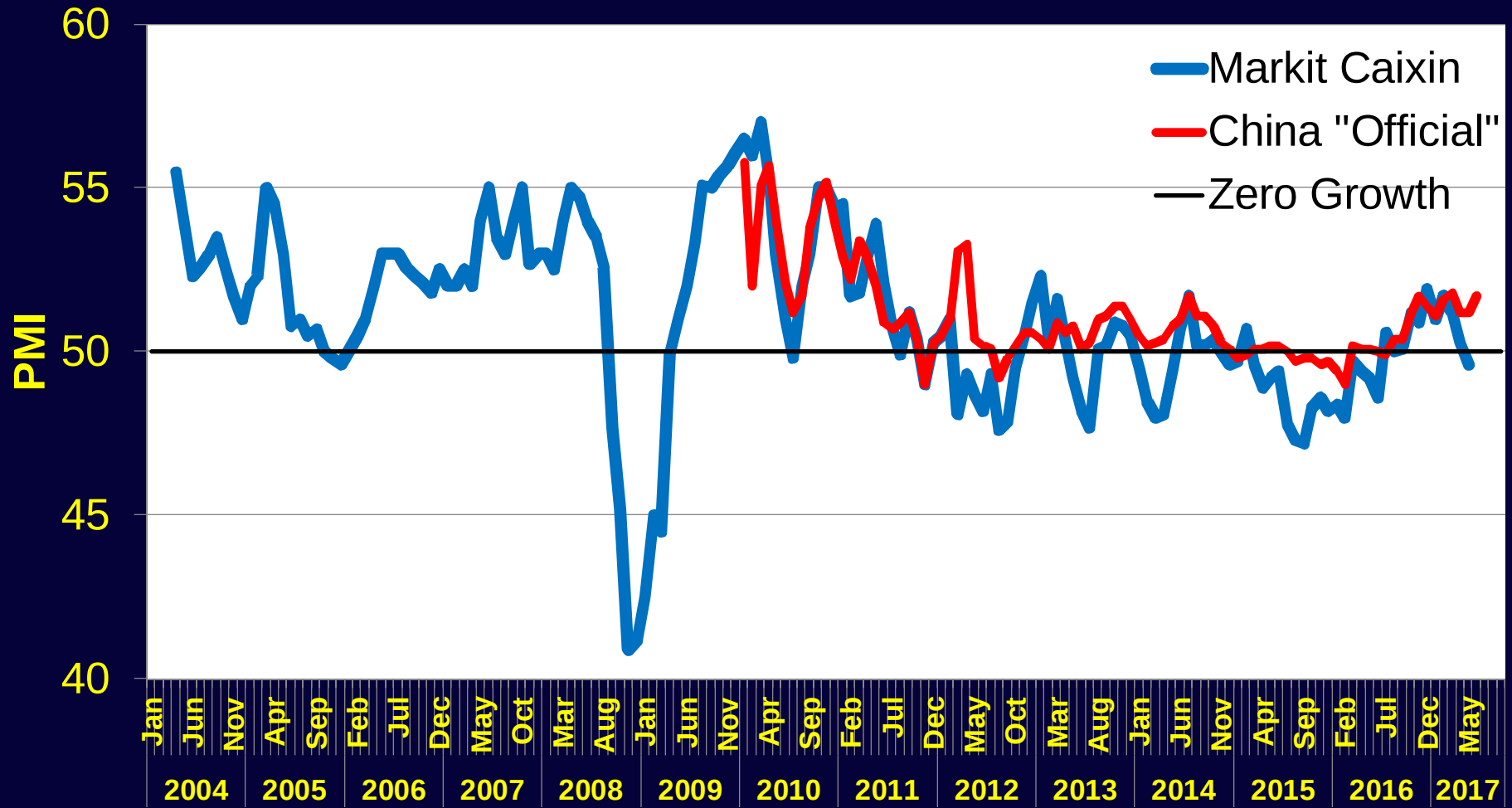


Chart 22
Chart 22

Copper, High Grade (HG, Comex)



<http://futures.tradingcharts.com/chart/CP/B9>

Tin

Price – US\$/Pound (monthly close)



Silver, 5000 oz (Si, Comex)

Price – US\$/Troy ounce (monthly close)



Gold, 100 oz (GC, Comex)

Price – US\$/Troy ounce (monthly close)

