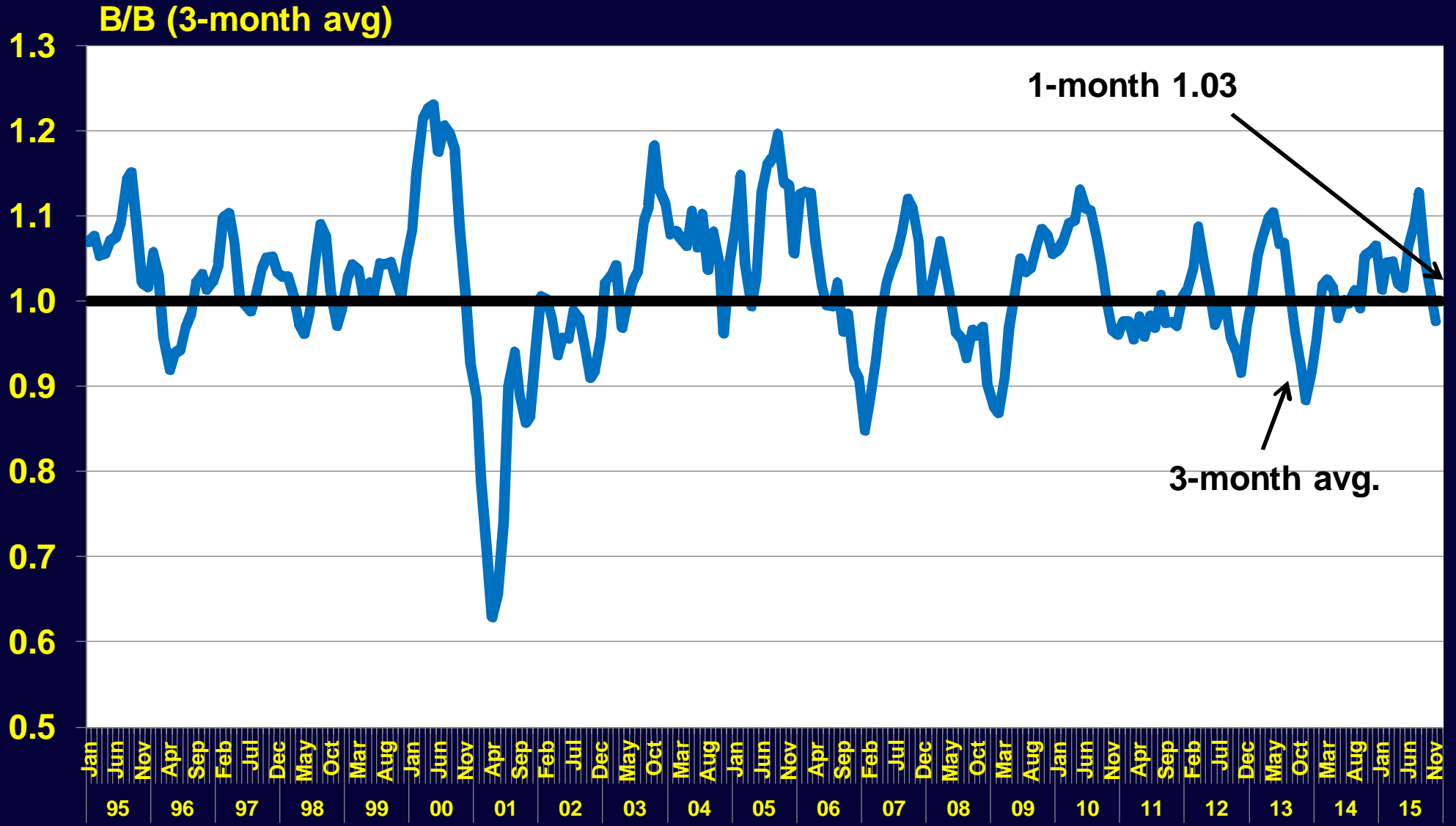
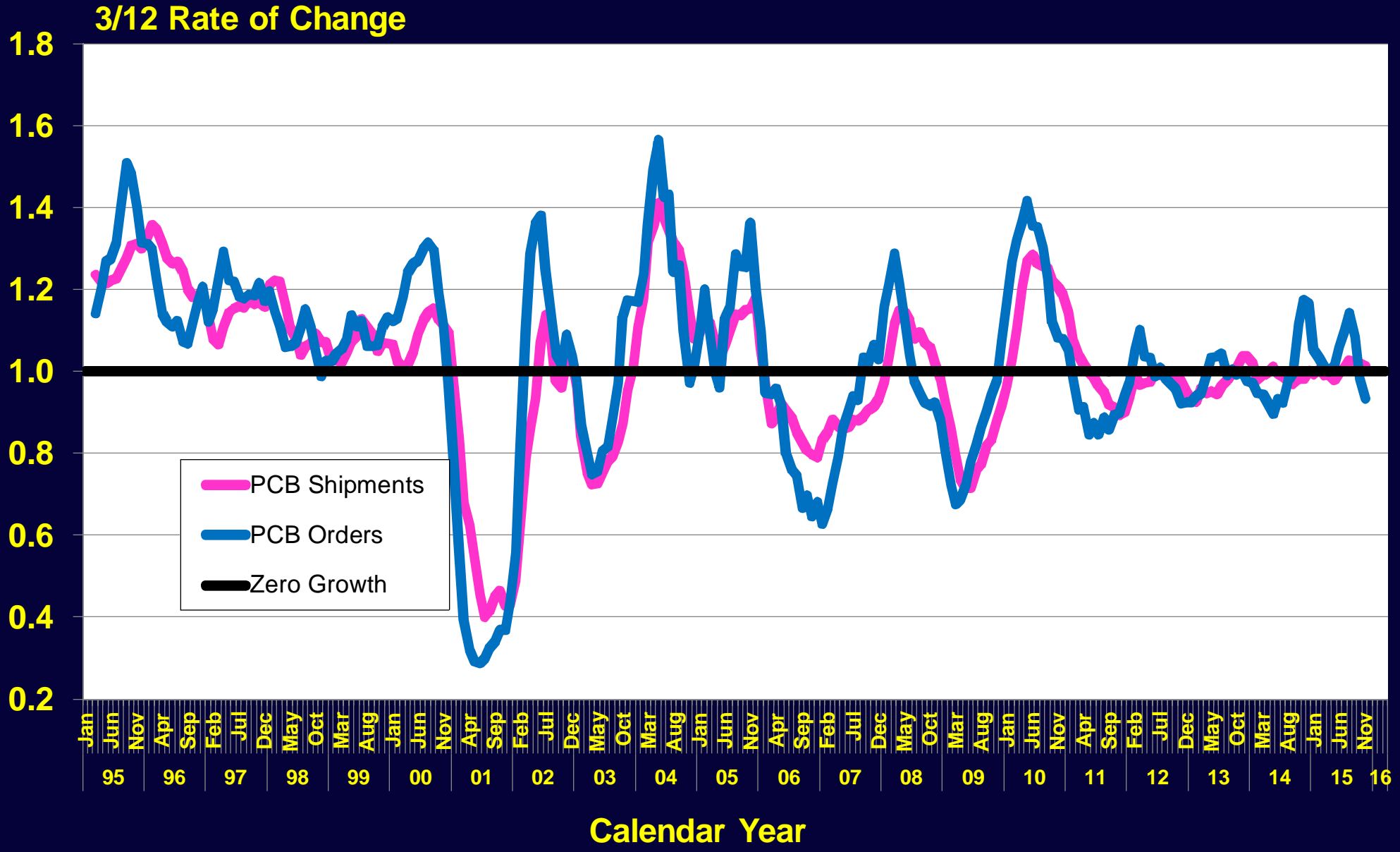


Rigid & Flexible PCB Book/Bill N. America

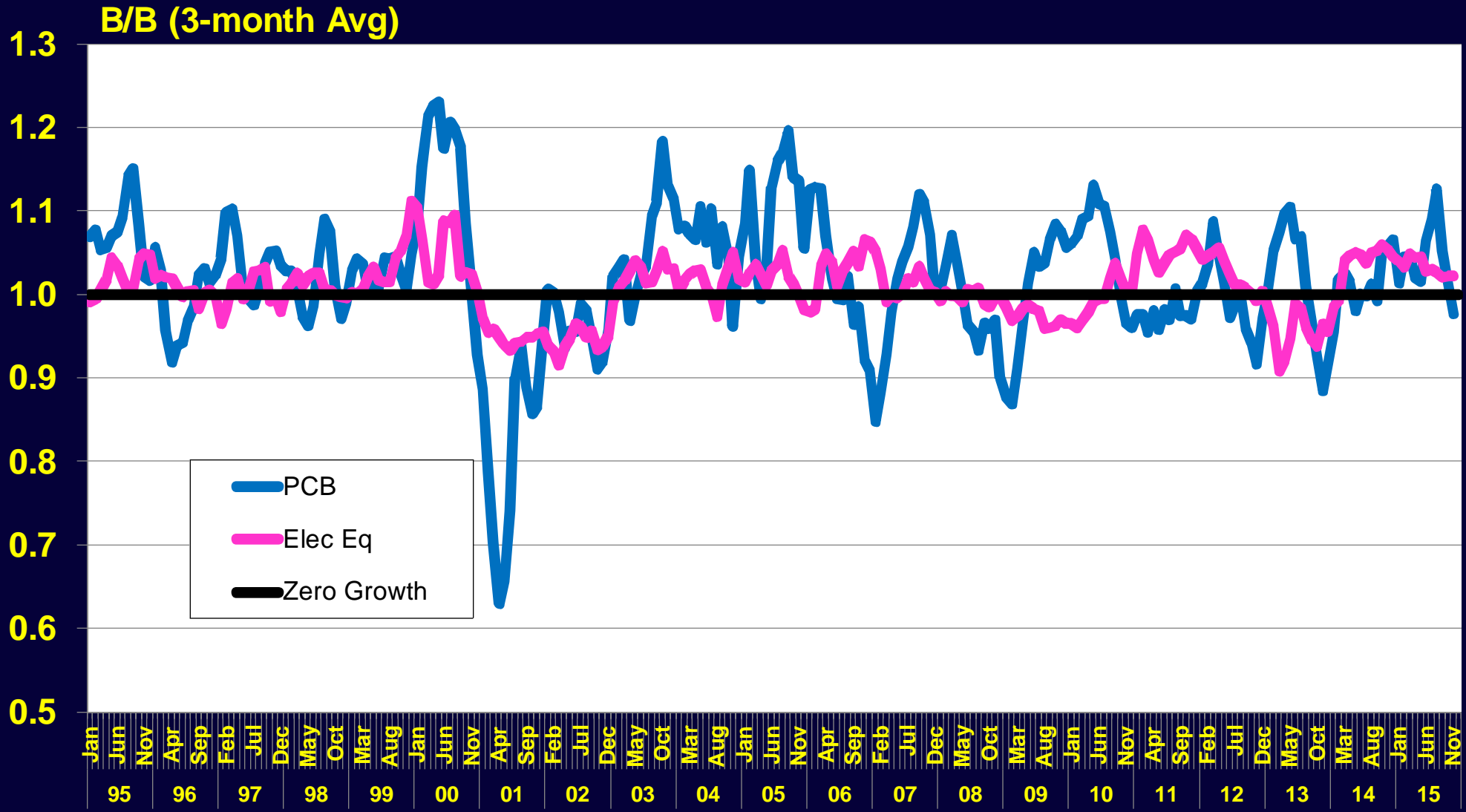


N. America Rigid & Flexible PCB Orders & Shipments

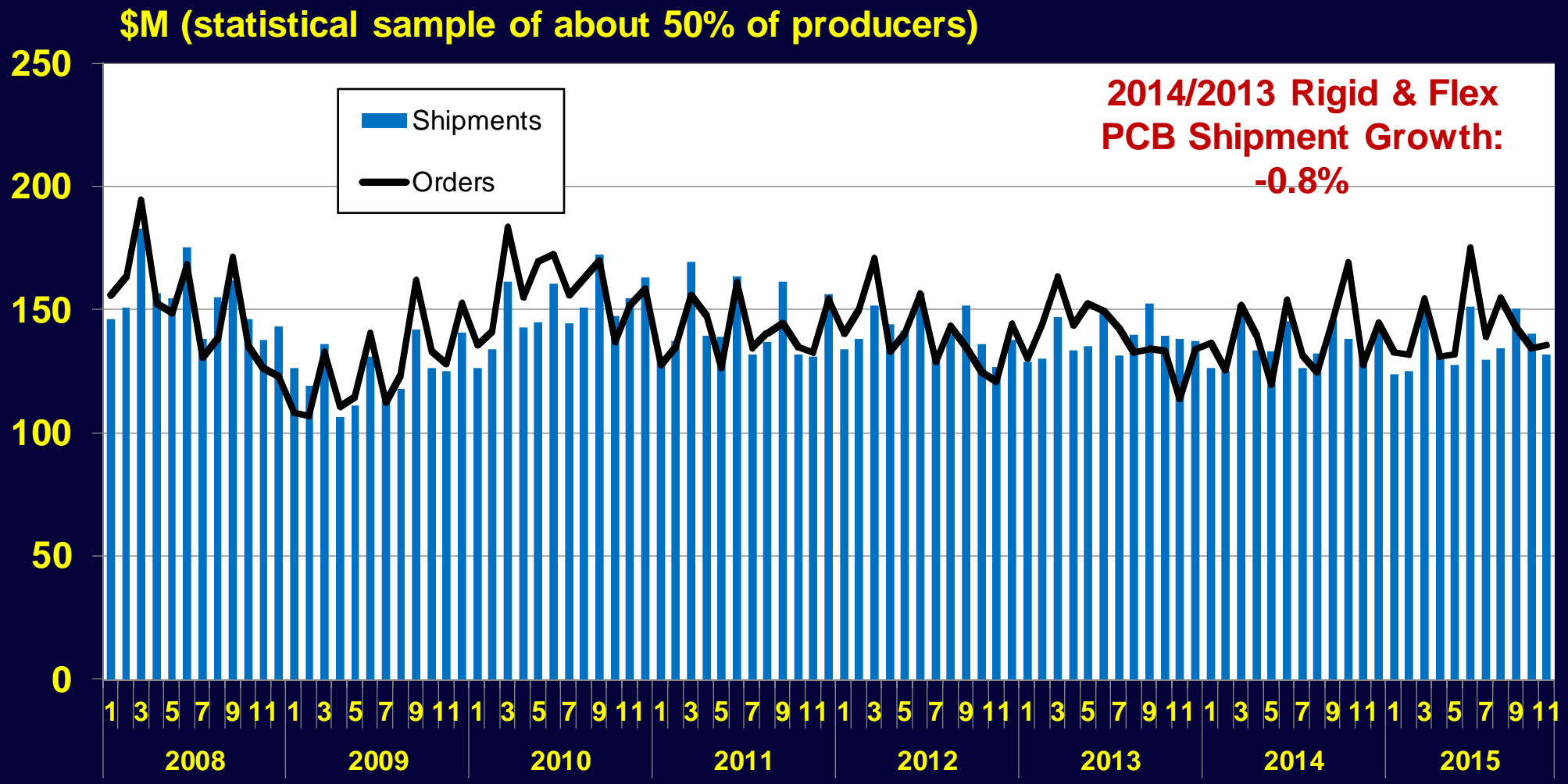


Data: IPC T/MRC & <http://www.census.gov/indicator/www/m3/>

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

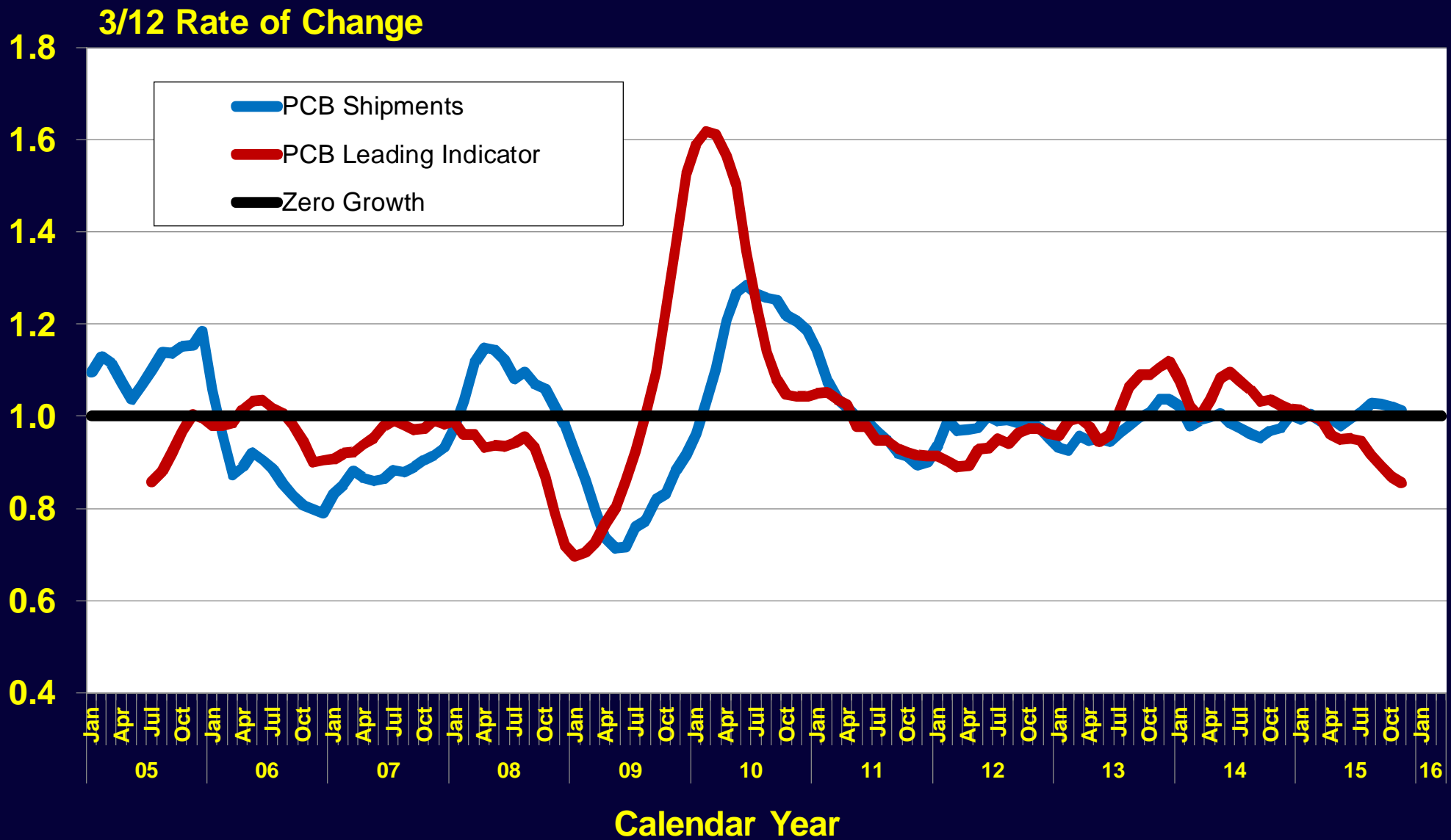


N American Rigid & Flexible PCB Shipments & Orders



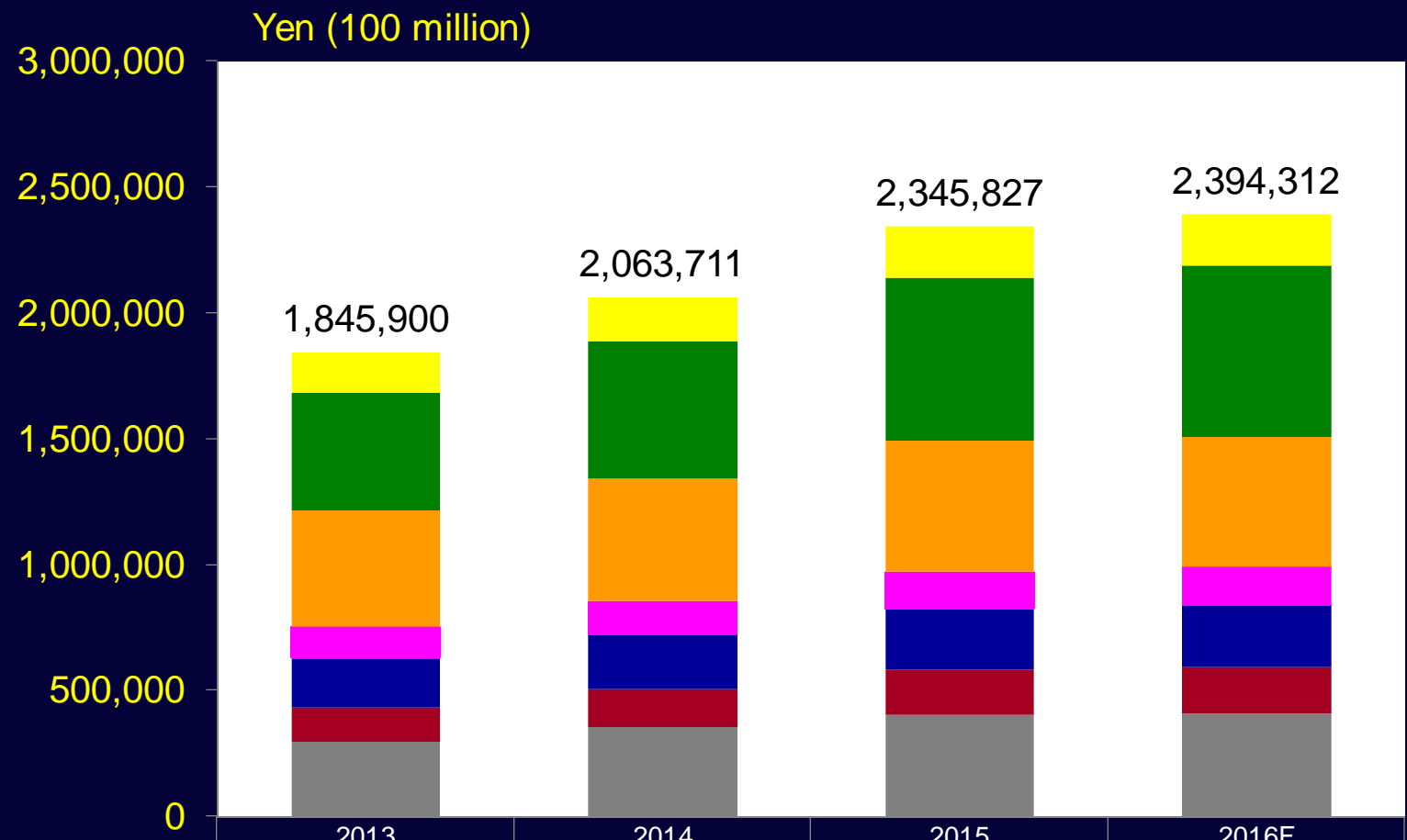
Note: IPC survey captures "market" not domestic production. About 15% of the above represents imported boards resold by N American PCB producers in survey.

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



Source: Custer Consulting Group

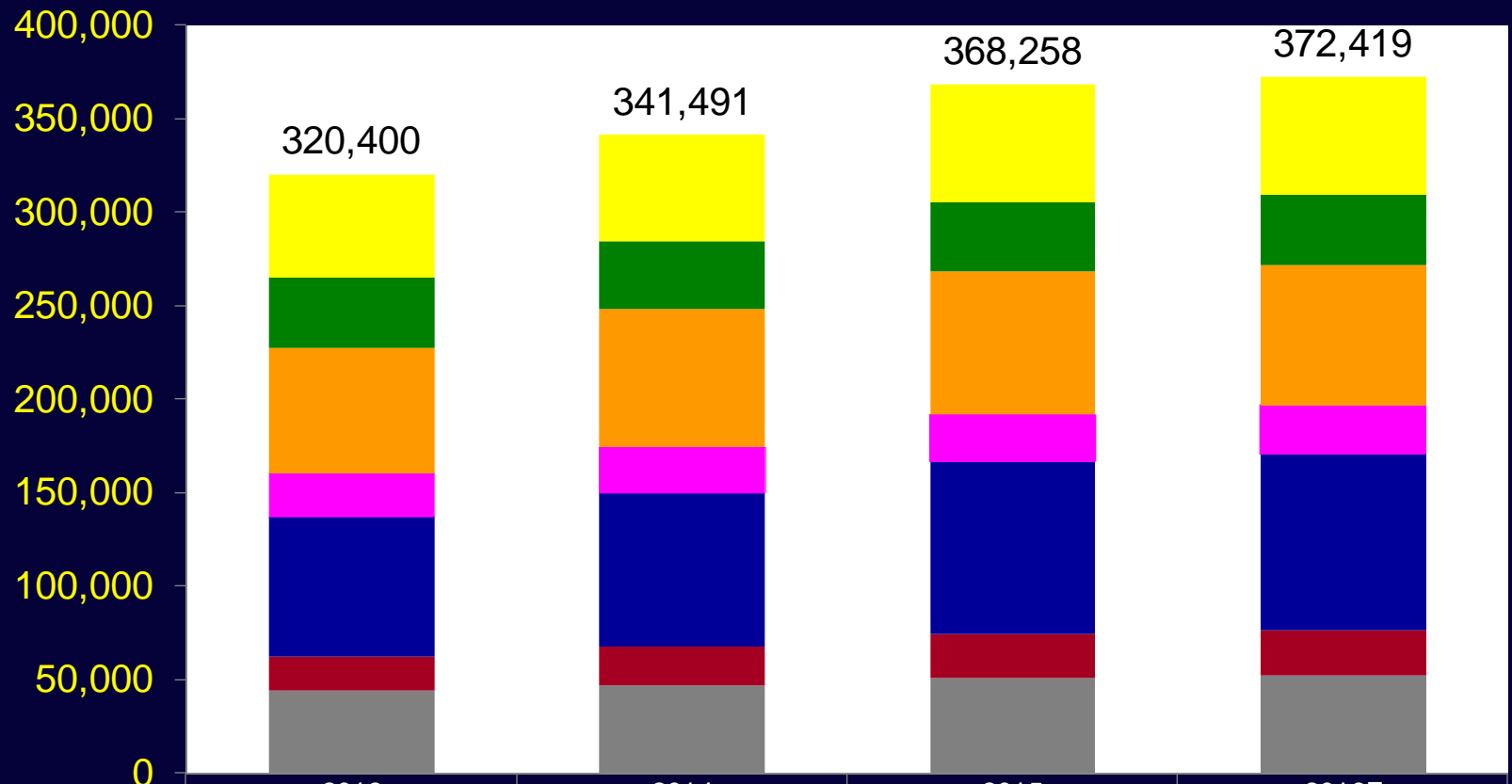
World Electronics Production JEITA Forecast



	2013	2014	2015	2016F
Total	1,845,900	2,063,711	2,345,827	2,394,312
AV Equipment	162,095	178,193	205,888	207,074
Communication	467,890	544,019	644,400	679,321
Computers & Information Terminals	462,640	484,799	523,913	513,779
Other Electronic Equip	124,097	133,222	148,076	153,135
Electronic Components	196,187	217,325	239,441	246,173
Display Devices	136,574	151,838	177,747	182,889
Semiconductors	296,417	354,315	406,362	411,941

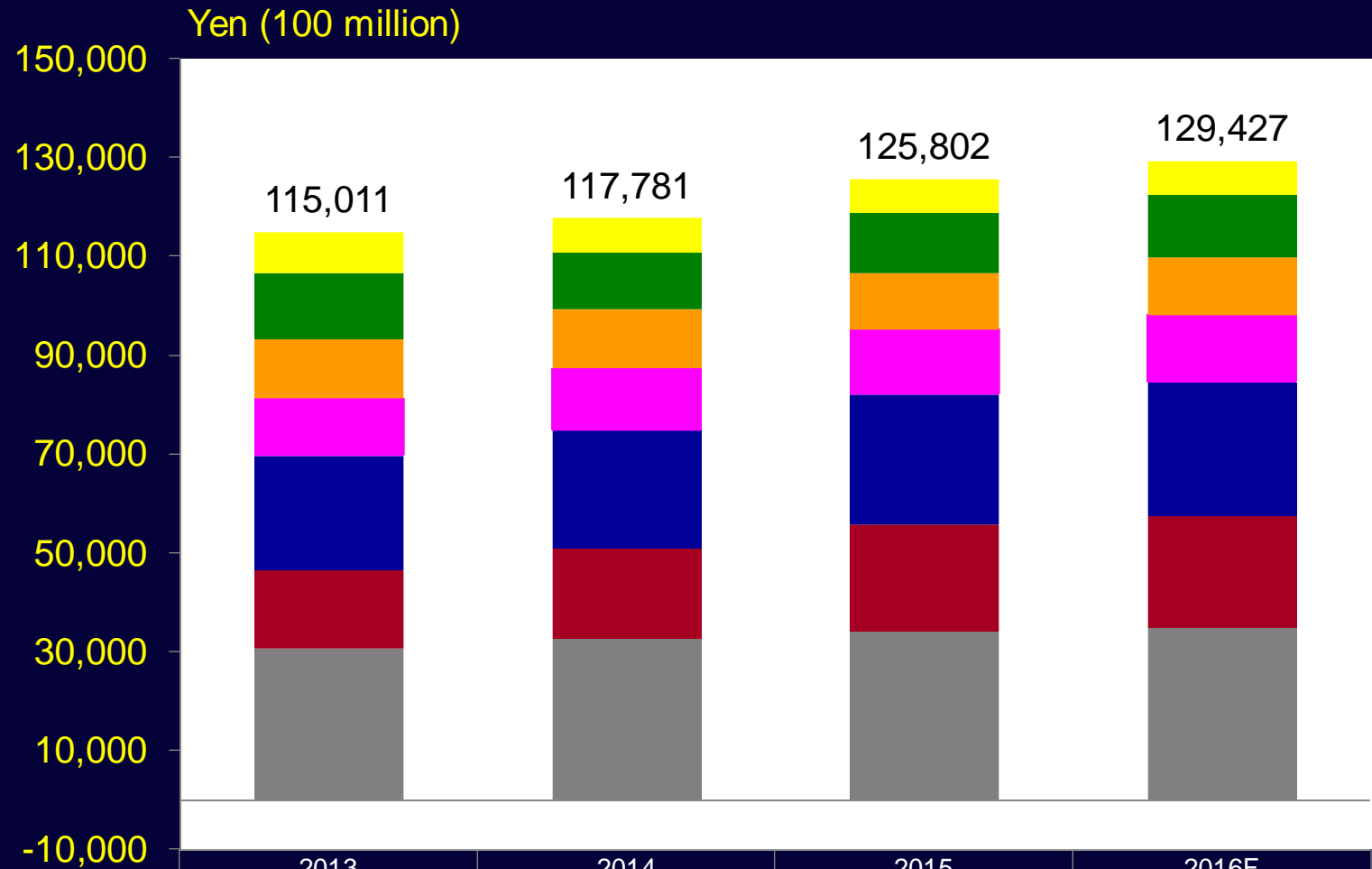
World Production by Japanese Electronics Companies JEITA Forecast

Yen (100 million)



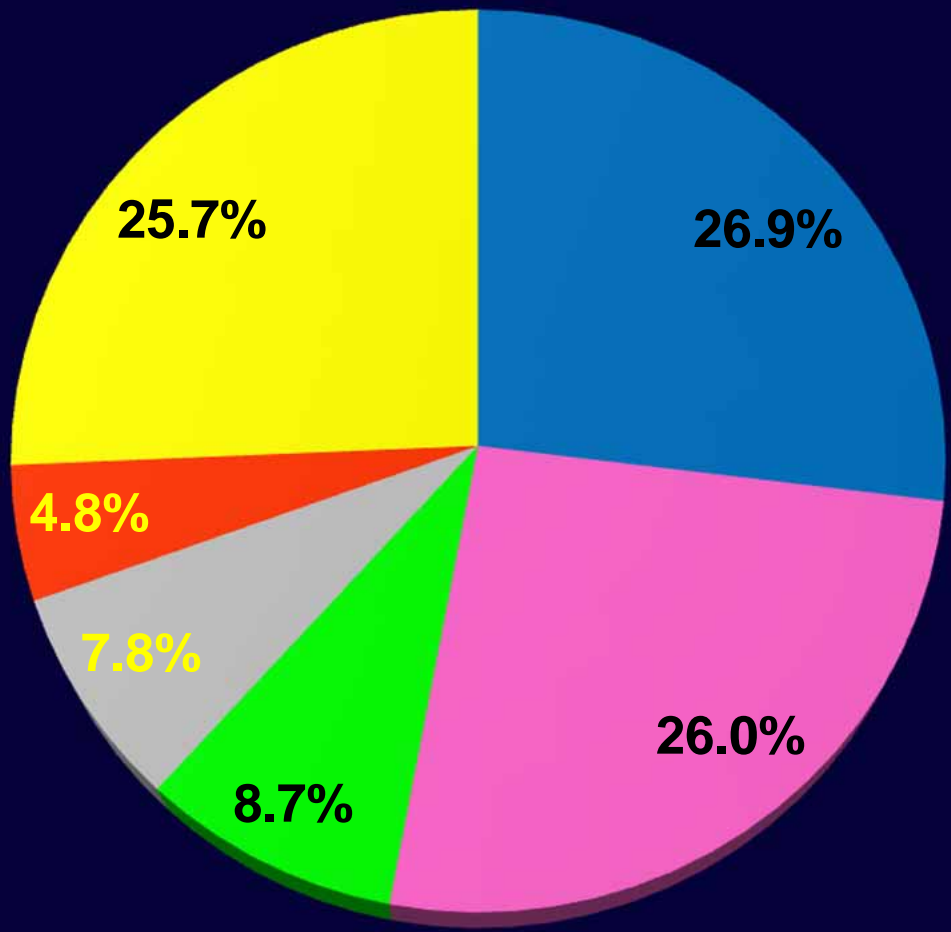
	2013	2014	2015	2016F
Total	320,400	341,491	368,258	372,419
■ AV Equipment	54,866	56,581	62,825	63,032
■ Communication	37,957	36,529	36,609	37,214
■ Computers & Information Terminals	66,762	73,758	76,763	75,257
■ Other Electronic Equip	23,302	24,086	25,233	25,649
■ Electronic Components	74,818	82,792	91,908	94,181
■ Display Devices	17,902	20,190	23,555	24,357
■ Semiconductors	44,793	47,555	51,365	52,729

Domestic Production by Japanese Electronics Industry JEITA Forecast



	2013	2014	2015	2016F
Total	115,011	117,781	125,802	129,427
■ AV Equipment	8,223	6,930	6,825	6,941
■ Communication	13,431	11,451	12,223	12,509
■ Computers & Information Terminals	12,030	12,014	11,414	11,732
■ Other Electronic Equip	11,627	12,386	13,204	13,659
■ Electronic Components	23,119	24,135	26,407	27,217
■ Display Devices	15,876	18,314	21,690	22,471
	30,705	32,551	34,039	34,898

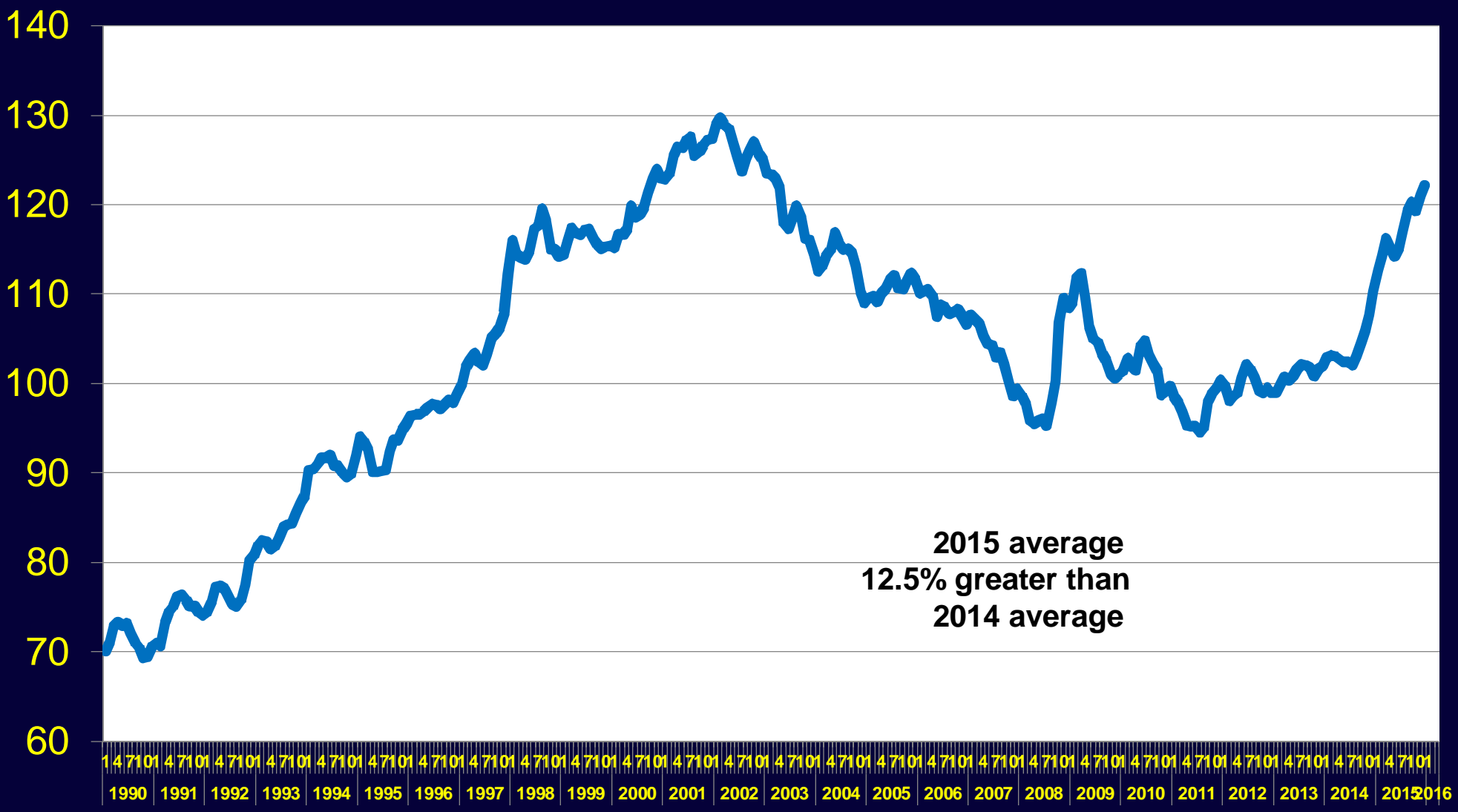
Thin & Terminal Client Device 3Q'15 Share



- HP
- Dell
- Ncomputing
- Centerm
- Igel
- Others

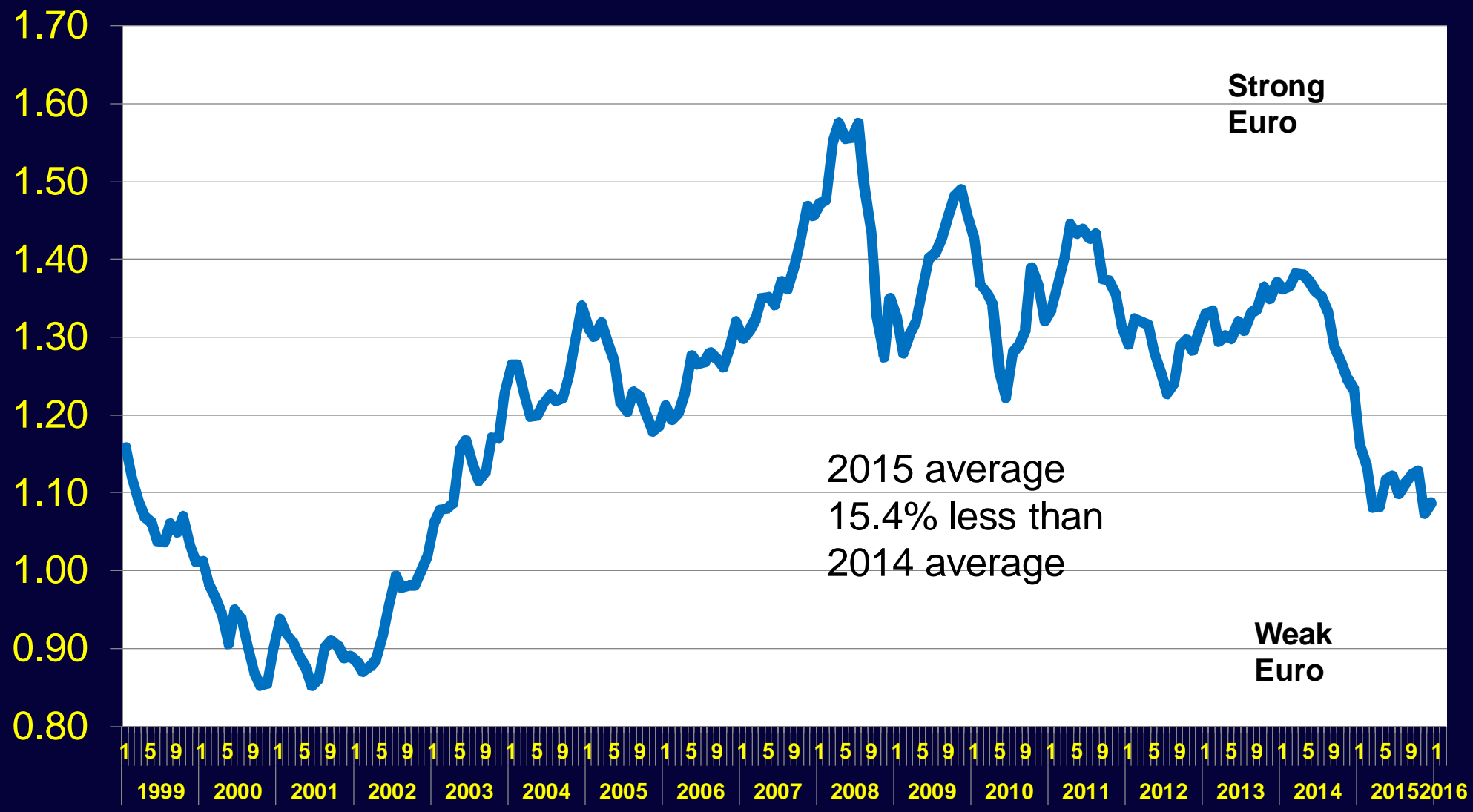
TOTAL: 1,259 Thousand Units

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



Euro vs. U.S. Dollar

US\$/Euro



Canada \$ vs. U.S. \$

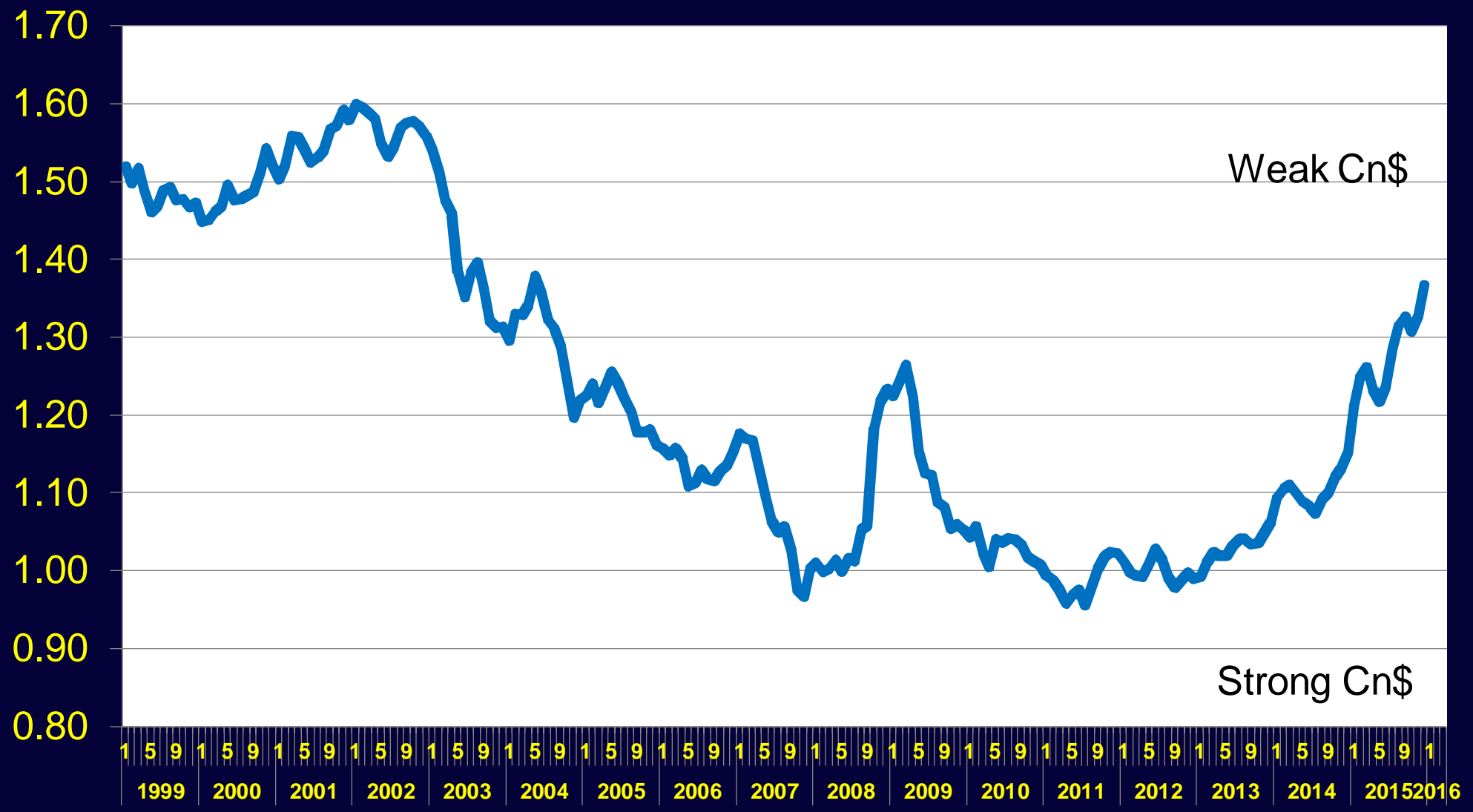
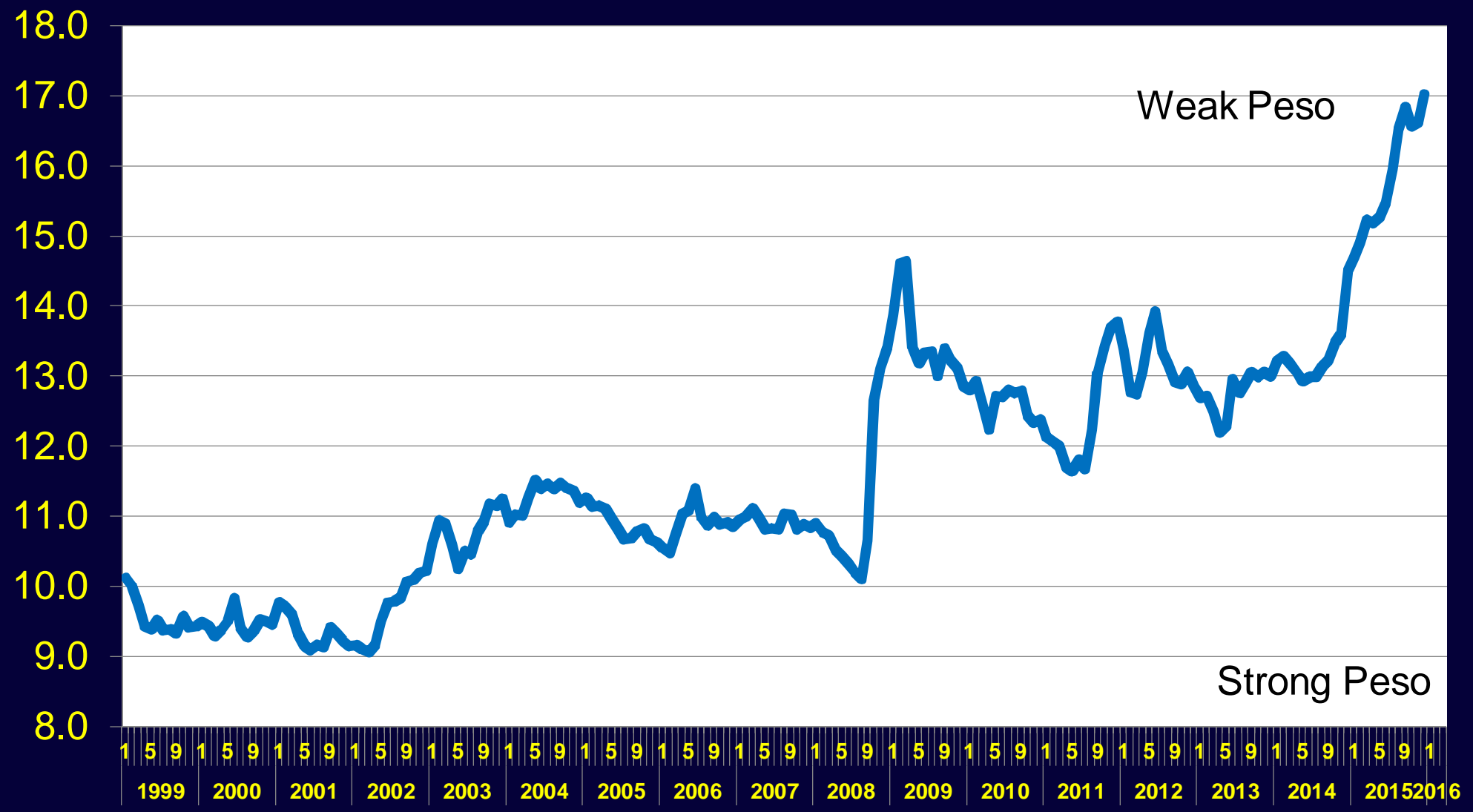
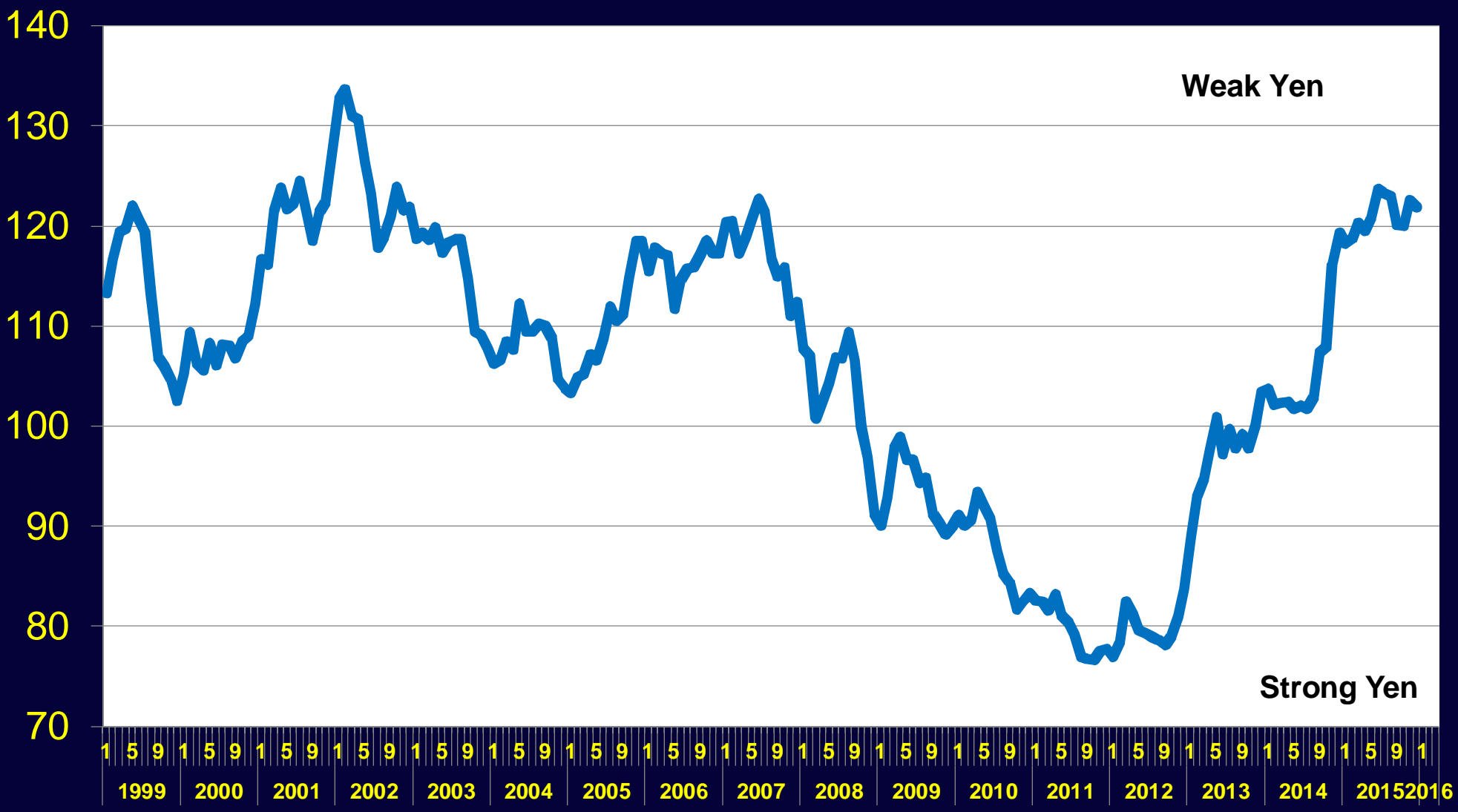


Chart 13

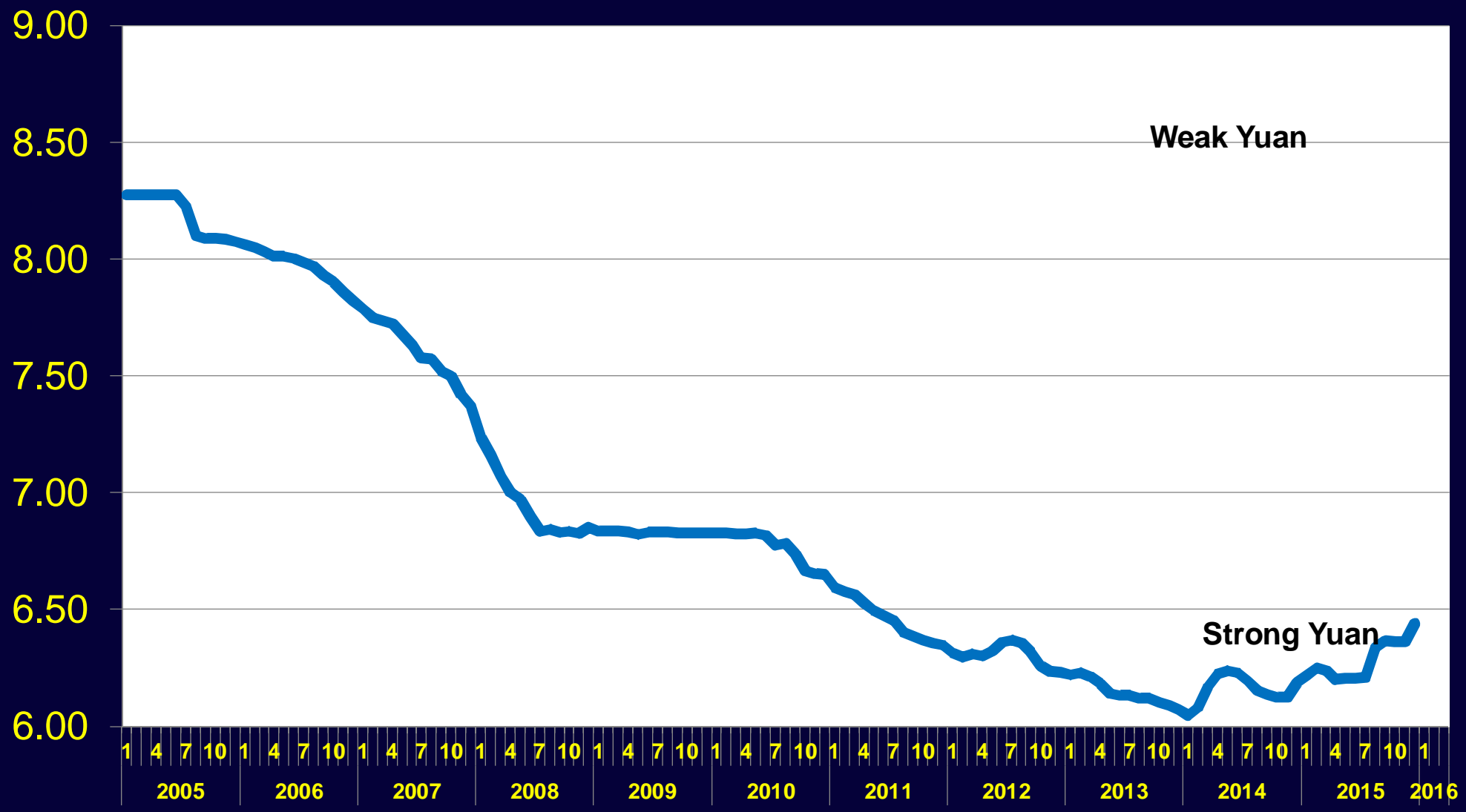
Mexico Peso vs. U.S. \$



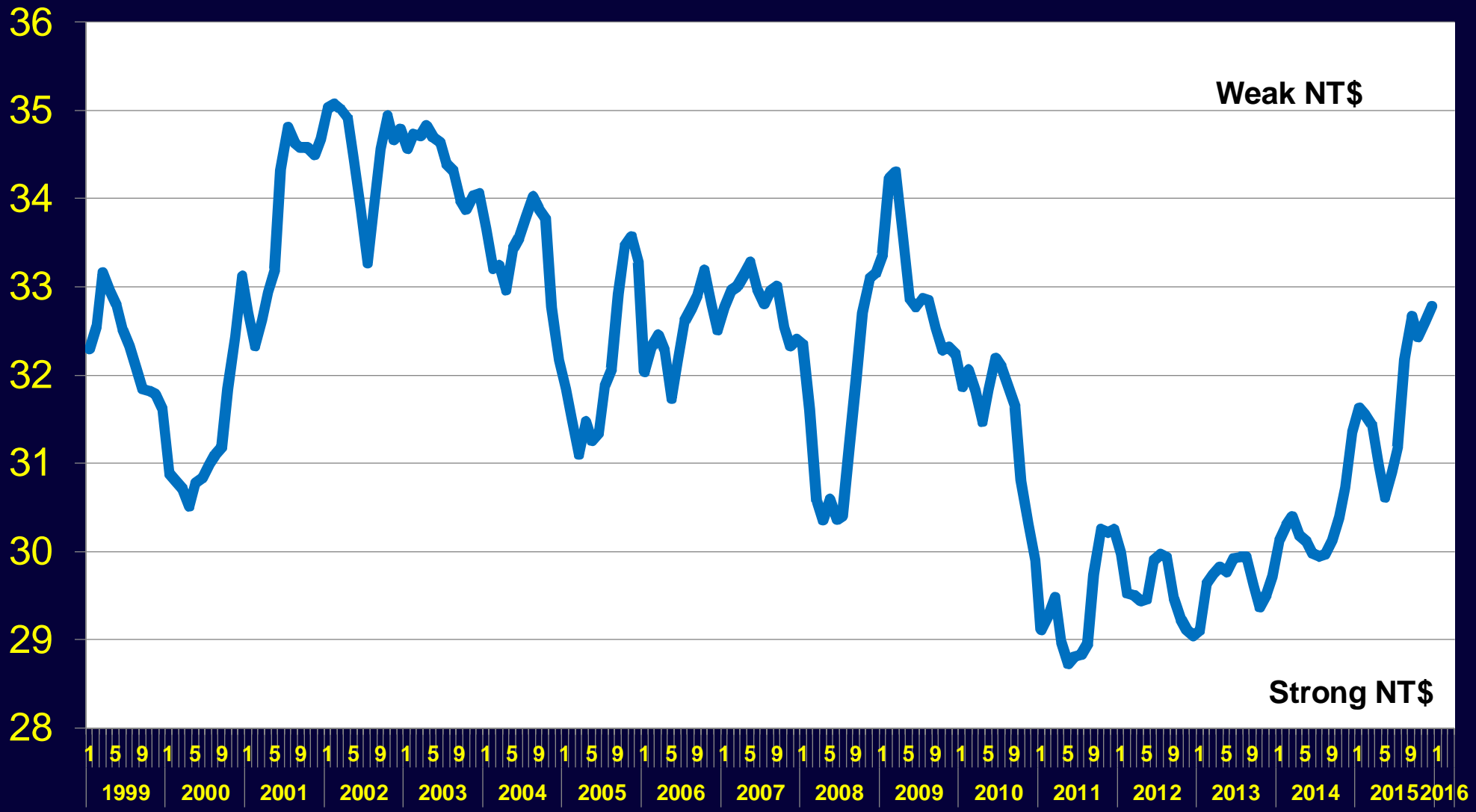
Japanese Yen vs. U.S. Dollar



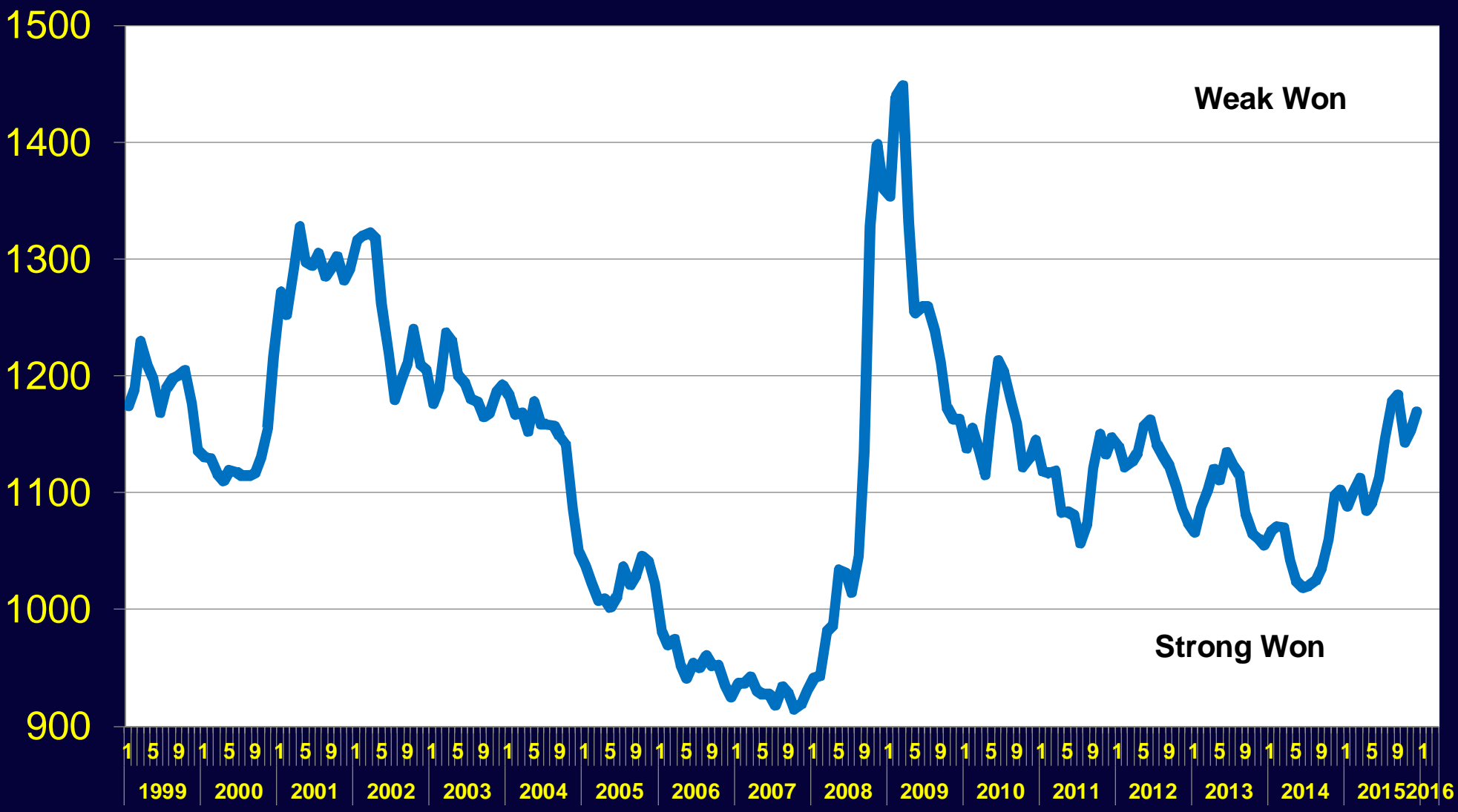
China Yuan vs. U.S. Dollar



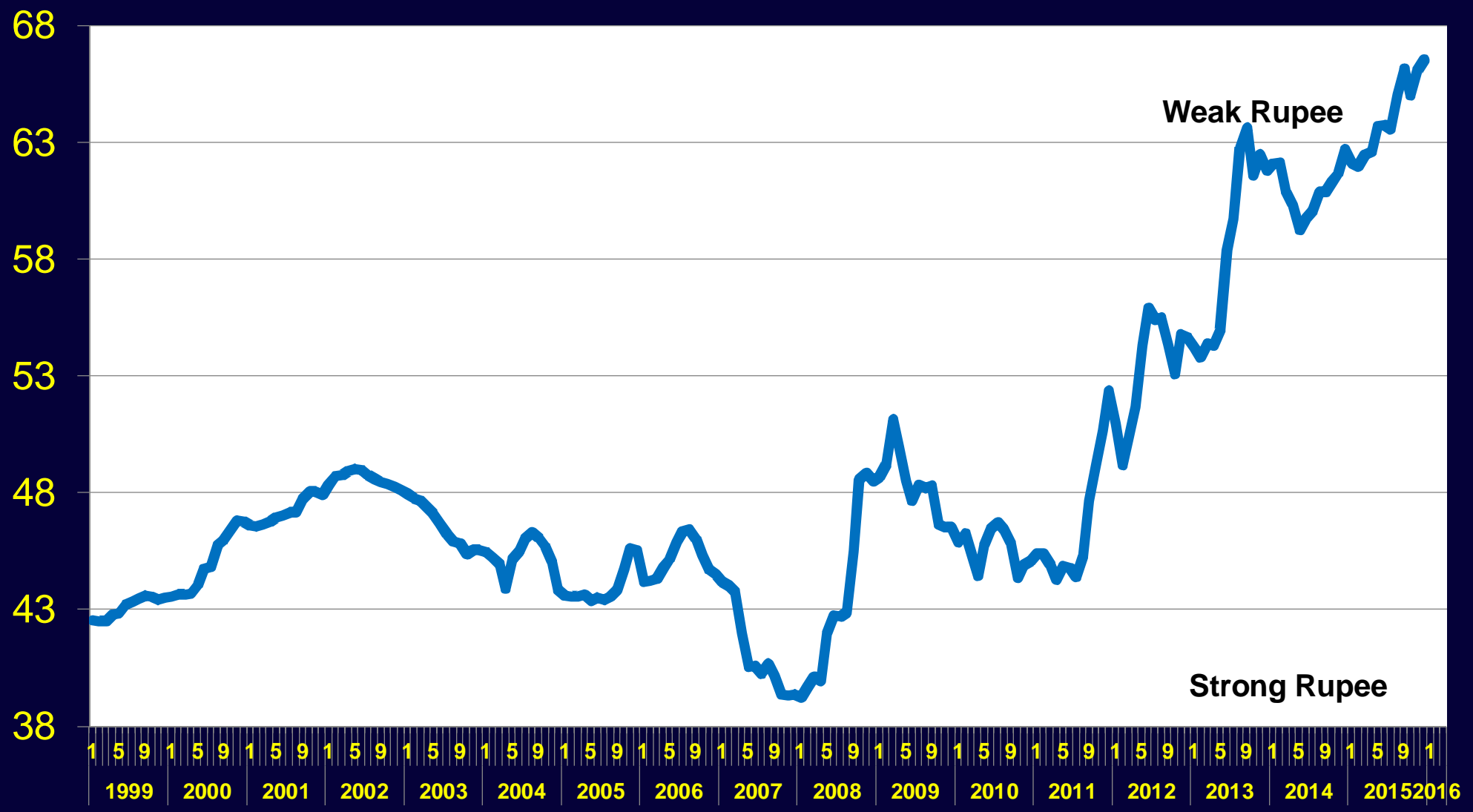
Taiwan vs. U.S. Dollar



S. Korean Won vs. U.S. Dollar



Indian Rupee vs. U.S. Dollar



Copper, High Grade (HG, Comex)



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)

