Big MacCurrencies

The Economist offers some hot tips on exchange rates

Argentina

Australia

Brazil

Britain

Canada

Chile

China

Denmark

Euro area

France

Italy

Spain

Hungary

Indonesia

Israel

Japan

Malaysia

New Zealand

Mexico

Poland

Russia

Singapore

South Africa

South Korea

Switzerland

Sweden

Taiwan

Hong Kong

Germany

Netherlands

COME readers find our Big Mac index hard to swallow. This year, however, has been one to relish for burgernomics.

When the euro was launched at the start of the year, most forecasters expected it to

rise. The Big Mac index, however, suggested the euro was overvalued against

the dollar—and it has indeed fallen. The Big Mac index was devised 13 years ago as a light-hearted guide to

whether currencies are at their "correct" level. It is based upon one of the oldest

concepts in international economics: purchasing-

power parity (PPP)-the notion that a dollar, say, should buv the same amount in all countries. In the long run, argue PPP fans,

currencies should move towards the rate which equalises the prices of an identical basket of goods

and services in each country. Our "basket" is a Mc-Donalds' Big Mac, which is produced in more than 100

countries. The Big Mac PPP is the exchange rate that would leave hamburgers costing the same in America as abroad. Comparing actual exchange rates with PPPs sig-

have once again been munching their way around the globe. The first column of the table shows local-currency prices of a Big Mac; the second converts them into

nals whether a currency is under- or over-valued. Our correspondents

dollars. The American price (the average in four cities, including tax) has dropped by 5% over the past year, to \$2.43. Elsewhere, the cheapest Big Mac is in Malaysia (\$1.19), whereas in Switzerland it costs a beefy \$3.97. Hence the Swiss franc is the

most overvalued currency (by 64%), the ringgit the most undervalued (by 51%).

The third column calculates Big Mac PPPs. For example, dividing the Japanese price by the American price gives a dollar PPP of ¥121, implying that the ven is spot

on McParity. The price of a Big Mac varies widely within the euro area, but the average price (weighted by GDP) in the 11 countries is €2.52, or \$2.71 at current exchange

rates. This implies that despite its fall, the

euro is still 11% overvalued. The table also

The hamburger standard **Big Mac prices** Implied

in local in PPP* of currency dollars the dollar rate 30/03/99 United States† \$2.43 2.43 Peso2.50 2.50 1.03 A\$2.65 1.66 1.09 Real2.95 1.21

1.71 £1.90 3.07 C\$2.99 1.98

Euro2.52

FFr8.50

DM4.95

FI5.45

Pta375

HK\$10.2

Forint299

Shekel13.9

¥294

M\$4.52

Peso 19.9

NZ\$3.40

Zloty5.50

\$\$3.20

Rand8.60

Won3,000

SKr24.0

SFr5.90

NT\$70.0

Rouble33.5

Rupiah14,500

Lire4,500

1.28‡ 1.23 Peso 1.25 2.60 Yuan9.90 1.20 DKr24.75 3 58

2.50

2.66

2.43

1.32

1.26

1.66

3.44

2.44

2.46

2.88

3.97

2.11

1.235

9.88

2.43

28.8

4.07 10.19 2.71 0.97§ 2.87 7.20 2.72 2.04

518

6.10 1.82 1.852 1,799 2.24 2.05 154 155

Actual \$

exchange

1.00

1.59

1.73

1.51

484

8.28

6.91

1.08§

1.61‡

4.20 7.75 -46 123 237 -48 5,967 8.725 -32 5.72 4 04 +42 121 120 0 1.86 3.80 -51

Under(-)/over (+)

valuation

against the

dollar, %

+3

-32

-30

+26

-19

+7

-51

+47

+11

+18

+12

+3

+10

+1

+19

+64

-13

0

1.19 2.09 8.19 9.54 -14 1.82 1.40 1.87 -25 1.38 2.26 3.98 -43 1.35 13.79 24.7 -44 1.85 1.32 1.73 -24 1.38 3.54 6.22 -43

1,218

8.32

1.48

33.2

Thailand Baht52.0 1.38 21.4 37.6 -43 §Dollars per euro



shows prices in the euro's biggest member countries-ranging from the equivalent of \$2.87 in France to \$2.43 in Spain. Since their currencies are now irrevocably fixed, this gap can only be narrowed by prices falling in France or rising in Spain.

The currencies of the European economies that have decided to stay outside the euro are all noticeably overvalued. For example, according to the Big Mac index. sterling is overvalued by 26% against the dollar and by 13% against the euro. In contrast, most of the

emerging-market currencies, notably those in East Asia, Russia and Brazil, are significantly undervalued against the dollar, following large devaluations. There is one big exception: the Israeli

shekel is 42% overvalued. We admit that the Big Mac is an imperfect measure of PPP, because prices may be distorted by trade barriers, sales taxes and differences in the cost of non-

traded inputs such as rents.

But experience suggests that

investors ignore burgernomics at their peril. It is now time to lay down our chips: according to the Big Mac index, sterling and the other non-euro currencies will fall over the next year or so; the shekel is likely to suffer a sharp fall; but

China, where Big Macs are

almost as cheap as in Malay-

sia, does not need to devalue

the yuan.