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August 1, 2005

BY HAND

U.S. Department of Commerce Central Records Unit, Room 1870 14th St. & Pennsylvania Ave, NW. Washington, DC 20230

Attention: Joseph A. Spetrini Acting Assistant Secretary for Import Administration

> Comments on the Department's Labor Calculation Methodology Re:

Dear Acting Assistant Secretary Spetrini:

These comments are filed on behalf of Grunfeld Desiderio Lebowitz Silverman &

Klestadt, LLP ("GDLSK") in response to the U.S. Department of Commerce's request for

comment on the NME labor calculation methodology, as published in 70 Fed. Reg. 37,761 (June

30, 2005).

An original and six copies of GDLSK's comments are attached. These comments were also submitted by email.

Please contact the undersigned if you or your staff has any questions regarding these comments.

Respectfully submitted,

Grunfeld Desiderio Lebowitz Silverman & Klestadt LLP

B. M. Mitchell KB

Bruce M Mitchell Mark E. Pardo Paul Figueroa Richard A. Burns

SUBMISSION OF

GRUNFELD DESIDERIO LEBOWITZ SILVERMAN & KLESTADT LLP

ON

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NME LABOR RATE CALCULATION METHODOLOGY

AUGUST 1, 2005

<u>SUBMISSION OF GRUNFELD DESIDERIO</u> <u>LEBOWITZ SILVERMAN & KLESTADT,</u> <u>LLP ("GDLSK")</u>

Grunfeld Desiderio Lebowitz Silverman & Klestadt LLP ("GDLSK"), hereby responds to the United States Department of Commerce's ("Department" or "DOC") request for comment on the NME labor rate calculation methodology, published in 70 Fed. Reg. 37,761 (June 30, 2005).

Factual Background

On June 30, 2005, the Department of Commerce published a request for comment on the nonmarket economy ("NME") labor rate calculation methodology. While the Federal Register notice provides a summary of the calculation methodology in general, the Department failed to mention the impetus behind the request for comment. As such, we begin with the facts.

Pursuant to 19 C.F.R. 351.408(c)(3), Commerce determines the surrogate value for labor by using a regression-based analysis of the observed relationships between wages and national income in market economy countries to estimate wage rates for NME countries.¹ The regulation states, in its entirety:

Labor. For labor, the Secretary will use regression-based wage rates reflective of the observed relationship between wages and national income in market economy countries. The Secretary will calculate the wage rate to be applied in nonmarket economy proceedings each year. The calculation will be based on current data, and will be made available to the public.

19 C.F.R. 351.408(c)(3).

¹ Wage Rate = (NME country's GNI per-capita * X Coefficient) + Constant. <u>See http://ia.ita.doc.gov/wages/index.html</u>.

On October 6, 2004, the Department made its annual revision to the NME labor rate calculation and posted updated 2002 wage and Gross National Income ("GNI") data.² That information was posted on the Department's website at http://ia.ita.doc.gov/wages/index.html. The Department stated that the updated expected wage rate for China, based on the new 2002 information, was \$0.93/hour.

GDLSK argued in <u>Wooden Bedroom Furniture from the PRC</u> and <u>Frozen and</u> <u>Canned Warmwater Shrimp from the PRC</u> that this regression analysis labor calculation was improper because it relied on Chinese GNI data, which Commerce deems "unreliable" due to China's non-market economy status. <u>See</u> Allied Pacific's Case Brief at pp. 37-39 (Oct. 19, 2004). In addition, GDLSK noted that Commerce's updated labor calculation contained calculation errors and that it did not appear to utilize all available 2002 wage rate and GNI information.³ <u>Id.</u> GDLSK argued that, should the Department continue to value labor using its regression analysis based on wage rates and GNI for countries throughout the world, it must disclose additional information and correct specific errors in its calculation. <u>Id.</u> at 39-42. Finally, GDLSK noted that – simply using the countries Commerce acknowledged were included in its calculation – the 2002 data should have yielded a surrogate labor value for China of \$0.72 per hour rather than \$0.93. <u>Id.</u>

² GNI was previously known as GNP (Gross National Product).

³ The Department had not disclosed documentation underlying the Department's data points, it did not reveal the "X-Coefficient" or the "Constant" for the updated labor rate calculation as it had done in past-years' updates, and most importantly, the 2002 wage data actually yielded an hourly rate of \$0.72/hour, not \$0.93/hour as stated by the Department. See Allied Pacific Case Brief. at 39-40. Allied Pacific provided Commerce with a worksheet displaying its correction of the Department's error. See id. at Exhibit 6.

On approximately November 1, 2004, Commerce removed from its web site the back-up information for its original 2002 labor rate calculation. On November 15, 2004, Commerce released a revised 2002 wage rate calculation. However, this revised calculation removed the 2002 wage rate data and replaced it with the 2001 data from the previous year. The Department continued to reach the \$0.93/hour wage rate for China by combining 2001 wage rate data and 2001 per-capita GNI data with 2002 GNI data for China. See Commerce's Notes on its surrogate wage rate calculation at http://ia.ita.doc.gov/wages/index.html. The Department mixed 2001 and 2002 data despite the fact that 2002 data was readily available. Commerce had never previously mixed data from separate years, and it provided no explanation for this deviation in its methodology.

In notes accompanying its revised labor rate calculation, Commerce stated that it relied on wages reported in the <u>Yearbook of Labor Statistics 2002</u> (Chapter 5B), published by the ILO, which includes wage rates from 1996-2001. <u>Id.</u> Per-capita GNI for 2001 for market economy countries was taken from the <u>2003 World Development</u> <u>Indicators</u>, and per-capita 2002 GNI for China was taken from the <u>2004 World</u> <u>Development Indicators</u>, published by the World Bank. <u>Id.</u> However, Commerce failed to mention that *2002* per-capita GNI data was available from the <u>2004 World</u> <u>Development Indicators</u>, and *2002* wage data was available from the <u>Yearbook of Labor Statistics 2003</u> or the ILO's website.⁴ Thus, the very same sources Commerce used for its hybrid 2001/2002 calculation would have enabled Commerce to perform the calculation based solely on the more current 2002 data, as it had originally claimed to do.

⁴ Wages by country for Chapter 5B (manufacturing wages) are available on-line at the ILO's website, at http://laborsta.ilo.org/.

In its Final Determination in both <u>Furniture</u> and <u>Shrimp</u>, the Department explained that it needed more time "to determine an accurate construction of a new dataset and to conduct a new regression analysis." <u>Id.</u> at 18. However, Commerce did not explain why it required more time to review this particular calculation, and it did not state how much time would be required.

The Department's labor calculation was appealed to the Court of International Trade in both the <u>Furniture</u> and <u>Shrimp</u> cases. In both cases, the Department consented to a remand on this issue, stating "[u]pon further review of this issue, it appears that Commerce's calculation of the labor wage rate may be erroneous and in need of recalculation." <u>Allied Pacific v. United States</u>, Court No. 05-00056; <u>See also</u>, <u>Dorbest</u> <u>Ltd., Rui Feng Woodwork (Dongguan) Co., v. United States</u>, Court No. 05-0003; <u>citing</u> <u>SKF v. United States</u>, 254 F. 3d 1022 (Fed. Cir. 2001) (a remand is appropriate when the agency has doubts about the correctness of its decision.).⁵

Finally, on June 30, 2005, the Department published a request for comment on the wage calculation methodology. The request, however, makes no mention of its errors in the calculation of the 2002 Chinese labor rate. Instead, the request gives background information about how the wage calculation is made in general and proposes new NME wages for 2003.

⁵ Despite requesting a remand in these appeals and acknowledging errors in its calculation, the Department has continued to use the "revised" 2002 labor calculation based on the 2001 data in each Chinese case since <u>Furniture</u>, including the final results of Administrative reviews.

Proposed Modifications

The Department's 2003 Wage Rate Calculation Should Include All Available Data

The Department's proposed 2003 wage rate calculation remains flawed because it does not use all available wage and GNI information.

As discussed above, Commerce states on its website that it obtains country-wide labor rates from the <u>Yearbook of Labor Statistics</u>, and that it obtains per capita GNI data from <u>World Development Indicators</u>. See Commerce's Notes regarding its regression based labor calculation at http://ia.ita.gov/wages.html. The 2003 data set used in Commerce's calculations contain per-capita GNI and wage data from 52 market economy countries.⁶ Id. However, the <u>Yearbook of Labor Statistics</u> and the <u>World Development</u> <u>Indicators</u> include per-capita GNI and wage data for numerous other countries that Commerce did not use in its calculation. In fact, these two sources contain the necessary information meeting the Department's criteria for 66 countries.⁷ Commerce, however, inexplicably ignored the available 2003 data from 14 of the 66 countries.⁸

Commerce has offered no explanation for the exclusion of this available data from these additional 14 countries, and its omission directly conflicts with Commerce's justification for adopting the regression based calculation. When adopting its regulation

⁶ For the 2003 calculation, the Department dropped the Dominican Republic, Algeria and Kenya because ILO wage rate data were not available for these countries in the instant dataset. Commerce also dropped Zimbabwe because 2003 GNI data were not available. ⁷ The Department requires that each country's wage data is no more than 6 years old. The Department also requires that each country has available a consumer price index. <u>See</u> Request for Comment on Calculation Methodology, 70 Fed. Reg. 37761 (June 30,

^{2005).}

⁸ Per capita GNI and wage data from the past six years were also available for the following countries that Commerce did not use in its calculation: Albania, Cambodia, Czech Republic, Denmark, Hungary, Indonesia, Iran, Kazakhstan, Kuwait, Latvia, Macedonia, Mongolia, Slovakia and Uruguay.

for use of a regression based wage rate, the Department stated, "we believe that more data is better than less data" and "the regression-based approach will yield a more accurate result" because it relies on multiple countries. <u>Notice of Final Rule Making</u>, 62 Fed. Reg. at 27,367. Clearly if more data is better than less data the Department should use the information from the 14 other countries whose data is available from the same sources.

In addition, it is widely accepted that the omission of available data in a regression analysis results in biased and distorted results. <u>See, e.g.</u>, JAN KMENTA, ELEMENTS OF ECONOMETRICS at 341-344 (1971). <u>See also</u>, Report of Daniel W. Klett, included as **Exhibit 1** to this letter; Report of Dr. Tapan K. Nayak, included as **Exhibit 2**. Thus, the exclusion of data from certain countries cannot be reconciled with Commerce's use of a regression-based calculation. This fact is especially pertinent in the instant case since Commerce's methodology purports to calculate a "worldwide" relationship between wages and GNI. The calculation cannot be said to be "worldwide" if 14 out of the 66 countries whose data is published in the sources used by the Department are omitted without justification.

Furthermore, the Department's error cannot be explained away by arguing that its choice of 52 countries is a random sampling. First, in any random sampling, "standard errors decrease as sample size increases." Report of Dr. Tapan K. Nayak, included as **Exhibit 2**. As such, using the data from 66 countries would lead to more accurate results than using 52 countries. Second, record evidence indicates that the 14 countries the Department disregarded were not excluded randomly because these countries have been disregarded without explanation in prior years as well. <u>See</u>

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http://ia.ita.doc.gov/wages/index.html. Third, there is no need to sample at all in this situation because the total amount of available data consists of only 66 countries. Including these 14 countries would not result in any additional burden to the Department and would result in a more representative wage rate. <u>See, e.g.,</u> Report of Dr. Tapan K. Nayak, in **Exhibit 2.**

In addition, this error in Commerce's calculation calls into question the validity of the reasoning Commerce used when adopting this regression based methodology in the first place. As discussed above, Commerce asserted that the regression-based labor calculation was valid (despite the fact that it appeared to violate the statute's requirements for surrogate country sources that were economically comparable and significant producers of comparable merchandise) because it promoted accuracy, fairness and predictability. Notice of Final Rule Making, 62 Fed. Reg. at 27,367. However, if Commerce is free to cherry-pick a subset of available data and thereby distort the resulting calculation without even informing the public of this irregularity, then this methodology cannot be promoting accuracy, fairness or predictability. Furthermore, it is not performing a true regression based analysis in a representative manner.

For the above reasons, if Commerce continues using a regression-based labor calculation, it should revise its 2003 calculation to include all market economy countries for which a) per-capita GNI data for 2003 is available from the <u>2005 World Development</u> <u>Indicators</u>, and b) wage data is available from the ILO's <u>Yearbook of Labor Statistics</u> <u>2004</u> for any year between 1998 and 2003.

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<u>Exhibit 1</u>

Report of Daniel W. Klett, Principal Capital Trade, Incorporated

Department of Commerce NME Wage Methodology

I. Introduction

I have been retained by Grunfeld Desiderio to provide an opinion on the statistical reliability of the most recent regression-based methodology used by the Department of Commerce ("Commerce") to value non-market-economy (NME) wage rates. My background is included as Attachment 1 to this report.

Pursuant to 19 CFR 351.408(c)(3), the Department relies on regression analysis of the observed relationships between wages and national income in market economy countries to estimates wage rates for non-market economy countries in antidumping duty investigations. This regulation also states that "The calculation will be based on current. data, and will be made available to the public." In its response to comments on this proposed change to its methodology for valuing NME wage rates, the Department stated that "In general, we believe that more data is better than less data, and that averaging of multiple data points (or regression analysis) should lead to more accurate results in valuing any factor of production.¹

The most recent estimates by Commerce for NME wages is based on a regression of market economy 2001 wages and per capita Gross National Income (GNI), the results of which are applied to 2002 per capita GNI for NMEs to estimate NME wages.² Previous estimates relied on <u>contemporaneous years</u> for both market economy and NME data.³

There are two issues addressed below regarding the methodology for the current estimates of NME wages. First, why is Commerce relying on 2001 market economy data

¹ 62 FR 27367 (May 19, 1997).

² See Attachment 2, a PDF version of the November 15, 2004 updates of NME wages for 2002.

³ See <u>http://ia.ita.doc.gov/wages/index.html</u>, accessed on January 3, 2005.

when more current data are available, and is it appropriate to apply the regression results from 2001 market economy data to 2002 NME GNI data? Second, why are datapoints from some market economies for which data are available excluded from the regression analysis, and what does this mean for the reliability of the statistical results?

II. Reliance on Non-Current 2001 Market Economy Data

In notes supporting its calculations, Commerce reports that it has relied on wages reported in the <u>Yearbook of Labour Statistics 2002</u> (Chapter 5B), published by the ILO. It states that it included reported wage rates for the years 1996 to 2001. Data for years prior to 2001 are inflated to 2001 based on consumer price indices of the <u>International Financial Statistics Online Service</u>. Per capita GNI for 2001 for market economy countries was from the 2003 <u>World Development Indicators</u>, and per capita 2002 GNI for NMEs was from the 2004 <u>World Development Indictors</u>, published by the World Bank.⁴

Commerce provides no rationale for why it has relied on 2001 data for the market economy regression, when data are available for 2002 per capita GNI from the 2004 <u>World</u> <u>Development Indicators</u>, and for many countries 2002 wages from the <u>Yearbook of Labour</u> <u>Statistics 2003</u> or the ILO's website.⁵ This runs counter to the Department's own regulations that the annual re-calculation of the wage rate be based on "current data." Furthermore, application of the 2001 market-economy regression results to 2002 NME per capita GNI is an apples-to-oranges comparison that departs (with no explanation given since 2002 market economy data are available) from how NME wages were estimated in

⁴ See Attachment 2.

⁵ See Attachment 3 Table 1.1 from the <u>World Development Indicators</u>. Commerce did present 2002 data for market economy wages and per capita GNI in a prior estimate on its website posted in October 2004, but these data were withdrawn after a critique by respondents in the investigation involving furniture from China which could not replicate the Commerce results. Wages by country for Chapter 5B (manufacturing wages) are available on-line at the ILO's website, at <u>http://laborsta.ilo.org/</u>. Data from this source is included in Attachment 4, which has been modified to exclude lines other than "total" wages.

prior periods. As shown in the tabulation below, the regression based results can vary

considerably from year-to-year:

Period	Constant	Coefficient 1/
1995	.3705	.000516
1997	.3715	.000475
1998 2/	.4540	.000464
1999	.3981	.000475
2000	.4622	.000432
2001	.5123	.000437
2002 (used) 3/	.5123	.000437
2002 (actual) 4/	.3620	.000504

1/ applied to per-capita GNP or GNI.

2/ Commerce inexplicably dropped Denmark from the market economy countries for this period, although it had been included in previous regressions.

3/ Based on regression of 2001 market economy data, applied to 2002 NME per-capita GNI. See Attachment 2.

4/ Based on regression of 2002 market economy data for same set of countries as for 2001 regression. However, per capita GNI data for the Dominican Republic was not reported by the World Bank for 2002, so this country is omitted. (See Attachment 5 for data support, and Attachment 6 for results).

As shown in the above tabulation, a regression using the same set of market

economy countries as in 2001, but using current 2002 data, yields significantly different

results. The Department's arbitrary decision to use less contemporaneous data when more

current data is available runs counter to the stated reasons for adopting the regression-

based approach as being "fair," and "entirely predictable." It should be noted that

predictability in this regard is not with respect to the results, but with respect to a

consistent method.

Finally, for some countries, Commerce has relied on dated wage data from the

ILO's hard copy 2002 Yearbook, (with the data inflated to 2001), even though actual wage

data for later years is available from the on-line database from this same source.⁶ In this

regard, there is no reason to rely on the hard-copy ILO publication, when more current data

⁶ For example, among the countries for which 2002 data are available on-line, but not in the most recent hard-copy publication (<u>2003 Yearbook</u>) are Botswana, Brazil, Chile, Mexico, and the United States. This list is not all-inclusive.

are available from this same source on the ILO website. Reliance on the website data will not result in Commerce continuously having to update its estimates when/if more current data are made available on-line, since it is clear that its estimates are re-calculated only on an annual basis. There is no reason to not rely on the most up-to-date data available when the estimates are made, particularly give the Department's regulations that the estimates be based on "current" data. The online data is available to all potential respondents around the world who have internet access, thereby allowing respondents to have access to the same data as the DOC, thereby enabling them to better predict the annual wage rate calculation.

III. Commerce Has Arbitrarily Selected a Subset of Market Economy Data, Which Distorts its Results and Undercuts the Representativeness of the DOC's Calculated Worldwide Relationship Between Wages and GN1

In its notes to its NME wage rate calculations for 2002, Commerce states that "the selection of countries was based upon the availability of wage data as reported in the <u>Yearbook of Labor Statistics 2002</u>." The notes also state that countries reporting wages for the years 1996 to 2001 are included in the analysis. In its latest calculation, Commerce relied on per-capita GNI and wage data from 56 market economy countries.⁷ However, there are a significant number of market economy countries that were excluded from the analysis, where per-capita GNI was available from the <u>World Development Indicators</u> and manufacturing wage data were available from the ILO. These countries are:

Albania	Albania Iran			
Bangladesh	Kazakstan*	Serbia & Montenegro		
Cambodia	Kuwait	Slovakia		
Czech Republic	Latvia	Swaziland		

⁷ See Attachment 2. The notes indicate that it used countries where data were available from 1996 to the year at issue. Where the most recent wages were for a year prior to that for which the regression was applied, the wages were inflated based on consumer price indices. As discussed in the section above, there is no basis for relying on the 2002 <u>Yearbook</u> of Labour Statistics when more current data are available from the 2003 Yearbook, and on the ILO's website.

Denmark	Macedonia	Uruguay
Gambia	Mongolia	Venezuela
Hungary	Portugal	
Indonesia	Rwanda	

* Kazakstan received market economy status in 2001 so should be in the list of market economy countries for a 2002 regression-based analysis of wages.

There is no reason why data from these countries should be excluded, given Commerce's position that "more data is better than less data" when supporting its use of the regression-based methodology.⁸ Furthermore, the exclusion of these datapoints from the analysis seriously undermines the reliability of the results for statistical reasons. It is well known that the results of a regression with missing values is biased.⁹ In fact, the distortion can be confirmed by evaluating the results with and without data from these 22 countries, as shown in the following tabulation (based on 2002 market economy wage and per capita GNI data):10

	Constant	GNI Coefficient
55 Countries ¹¹	.362	.000504
77 Countries	.045	.000533

Since the DOC's methodology purports to calculate a worldwide relationship between wages and GNL using only a subset of countries for which data is available does not yield a representative relationship. As demonstrated above, using the 2002 wage and GNI data from the countries selected by the DOC versus all countries for which data are available yields a different result. Thus, the Department's use of only a subset of the countries for which data are available does not yield a correlation between wage and GNI for all countries for which data is available. Any resulting estimated surrogate wage rate

⁶² FR 27367 (May 19, 1997).

⁹ See, e.g., <u>Elements of Econometric</u>, Jan Kmenta, 1971, at 341-344 (see Attachment 7). ¹⁰ See Attachment 5 for data and Attachment 6 for results.

¹¹ There is no 2002 per capita GNI data available for the Dominican Republic in the most recent World Development Report, which is why we include only 55 of the 56 countries that the Department used based on 2001 data.

using the results of a regression calculation based on only a subset of available datapoints is therefore based on a statistically unrepresentative calculation.

IV. Conclusion

For the above reasons, Commerce should revise its 2002 wage rates for NME's based on using 2002 per capita GNI data from the 2004 <u>World Development Indicators</u>, and the most current wage rate data from the ILO (hard copy and on-line), inflated to 2002 when necessary. Commerce should also include in its regression-based wage analysis all market economy countries for which: a) per capita GNI data for 2002 is available from the <u>World Development Indicators</u>, and b) wage data is available from the ILO for any year between 1996 and 2002.

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Attachment 1

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DANIEL W. KLETT

EDUCATION

1985, M.A., Economics, Georgetown University 1976, B.A., Economics, College of the Holy Cross

EXPERIENCE

Mr. Klett is a principal with Capital Trade, Incorporated. His background is in international economics and trade regulation, with specific expertise in assessing the economic impact of imports on U.S. industries and consumers. He has participated in studies involving U.S. export control regulations, direct foreign investment in the United States, and financial analysis of the member companies of an international consortium.

Economic Analysis

Mr. Klett's experience in economic analysis of international trade issues includes:

- Analysis of impact of imports on competing U.S. industry, including use of existing economic models, econometric analysis of time series data, and testimony
- Estimation of impact of trade restrictions on consumers
- Economic analysis relating to domestic industry issues in Section 337 investigations at the U.S. International Trade Commission, and expert testimony
- Statistical analysis to support arguments made to the Department of Commerce in antidumping investigations

Case Experience - U.S. International Trade Commission:

- Framing Stock from the UK
- Softwood Lumber from Canada
- Uranium
- Flat Panel Displays from Japan
- Cement (Japan, Mexico, Venezuela)
- Industrial Nitrocellulose
- Atlantic Salmon from Norway
- Silicon Metal from Brazil
- Aspheric Ophthalmoscopy Lenses from Japan
- Honey from China
- Pencils from China
- Bulk Diltiazem (Section 337)

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DANIEL W. KLETT

Case Experience - U.S. International Trade Commission (cont.):

- Polyvinyl Alcohol (Japan, Korea, Taiwan, PRC)
- Salinomycin Biomass (Section 337)
- Rebar from Turkey
- Pasta from Italy and Turkey
- Stainless Steel Wire Rod
- Wheat Gluten (Section 201)
- EEPROMs (Section 337)
- Titanium Sponge (Changed Circumstance Review)
- Cut-to-Length Carbon Steel Plate
- Ferrosilicon (Changed Circumstance Review)
- Roller Chains from Japan (Sunset Review)
- Color Picture Tubes (Sunset Review)
- Silicon Metal (Sunset Review)
- Various carbon steel products
- Table Grapes from Chile
- Steel Wire Rope
- Ammonium Nitrate (Russia, Ukraine)
- Large Diameter Line Pipe
- Low-Enriched Uranium
- Automotive Replacement Glass from China
- Oil Country Tubular Goods
- DRAMs from Korea
- Urea Ammonium Nitrate
- Shrimp
- Outboard Motors from Japan

Case Experience - U.S. Department of Commerce:

- Industrial Nitrocellulose from Seven Countries
- Atlantic Salmon from Norway
- Kiwifruit from New Zealand
- Man-Made Fiber Sweaters from Korea
- Potassium Permanganate from Spain and China
- Aspheric Ophthalmoscopy Lenses from Japan
- Flat-Rolled Carbon Steel Products from various countries
- Oil Country Tubular Goods from various countries
- Stainless Steel Bar from India
- Sebacic Acid from China

CAPITAL * TRADE

DANIEL W. KLETT

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Other Projects

Mr. Klett has participated in other international trade-related projects, including:

- Consumer cost study for Japanese semiconductor companies involved in an EC antidumping proceeding.
- Analysis of the impact of U.S. national security export controls on the international business strategies of U.S. high-technology companies.
- Assistance to a Swiss manufacturer in assessing the feasibility of setting up manufacturing facilities in the United States, and site location.
- Analysis of the financial condition of Airbus members, in the context of state support and commercial conditions.
- Section 301 investigation involving modified wheat starch from the EU (on behalf of EU grain industry).

Prior Experience

Prior to forming Capital Trade, Incorporated, Mr. Klett was a Vice President with ICF Consulting Associates (1990-92), and a supervisor at Coopers & Lybrand (1987-90).

From 1979 to 1987, Mr. Klett was an economist at the U.S. International Trade Commission, first in the Office of Economics (1979-1986) and then as the economic advisor to four Administrative Law Judges (1986-1987) involved in Section 337 proceedings.

From 1977 to 1979, Mr. Klett served as a Peace Corps volunteer in Sierra Leone, teaching economics at the high school junior to introductory university levels.

PROFESSIONAL AFFILIATIONS

American Economic Association

PUBLICATIONS AND CONFERENCES

"The U.S. Tariff Act, Section 337: Off-Shore Assembly and the Domestic Industry," Journal of World Trade Law, May-June 1986.

"Price Sensitivity and ITC Injury Determinations: A Matter of Definition," (with T. Schneider) Journal of World Trade, April 1994.

"Proposed Changes Concerning Import Duties and Domestic Indirect Tax Rebates--Conformity to the GATT, and Benefits to the Peruvian Export Sector," Presented at Foro Internacional Sobre Devolucion de Impuestos y Drawback a Las Exportaciones, Lima, Peru, August, 1994.

Attachment 2



go back one page

page updated: November 15, 2004

EXPECTED WAGES OF SELECTED NON-MARKET ECONOMY COUNTRIES Expected Wage Calculation: 2002 GNI Data Regression Analysis: 2001 GNI Data Revised November 2004

EXPECTED 2002 WAGES OF SELECTED NME COUNTRIES

CALCULATION OF 2001 WAGES PER HOUR IN US DOLLARS

WAGES AND GNI PER CAPITA IN US DOLLARS MANUFACTURING WAGES AND GNI PER CAPITA (graph) NOTES

Amenia	\$790	\$0.86
Azerbaljan	\$710	\$ 0.82
Belarus	\$1,360	\$1.11
Estonia	\$4,190	\$2.34
Georgia	\$650	\$0.80
Kazakhstan	\$1,520	\$1,18
Kyrgyz Republic	\$290	\$0,64
Lithuania	\$3,670	\$2.12
Moldova	\$460	\$0.7
People's Republic of China	\$960	\$0.9
Romania	\$1,870	\$1.3
Russian Federation	\$2,130	\$1.4
Tajikistan	\$180	\$0.5
Turkmenistan	\$950	\$0.9

http://ia.ita.doc.gov/wages/02wages/02wages.html (1 of 6)1/3/2005 2:50:21 AM

Ukraine	\$780	\$0.85
Uzbekistan	\$310	\$0.65
Vietnam * *	\$430	\$0.70
Wage Rate = GNP * 0.000437	+ 0.512269	

* Applicable only to review periods that pre-date the effective date of graduation to market-economy status (Estonia (01/01/03); Lithuania (01/01/03); Romania (01/01/03); and Russia (04/01/02); Kazakhstan (10/01/01)).

** On November 8, 2002, the Department determined that Vietnam will be treated as a non-market economy country for purposes of antidumping duty and countervailing proceedings (see Memorandum for Faryar Shirzad, Antidumping Duty Investigation of Certain Frozen Fish Fillets from the Socialist Republic of Vietnam-Determination of Market Economy Status (A-552-801)).

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Norman (1997) Ang Pangang (1997) Ang Pangang (1997)					// Fight seals			Wates :		112 1.046 S.3 112 1.1
	-11 - 12 - 12 - 12 - 12 - 12 - 12 - 12									
Algeria	12,323.00	Dinars	month	192	64.18	1996	1,1912	76.45	77.22	0.99
Argentina.	4.29	Pesos	hour	1	4.29	2001	1.0000	4.29	1.00	4.29
Australia	17.38	Dollars	hour	1	17.38	1998	1.1065	19.23	1,92	10.00
Austria	26,104.00	Schillings	month	192	135.96	1999	1.0507	142.85	15.41	9.27
Belgium	417.56	Francs	hour	. 1	417.56	1998	1.0626	443.68	45.18	9.82
Bolivia	1,120.00	Bolivianos	month	192	5.83	2000	1.0159	5.93	6.61	0.90
Botswana	783.00	Pula	month	192	4.08	2000	1.0656	4.35	5.84	0:74
Brazil	846.00	Reals	month	192	4.41	2001	1.0000	4.41	2.36	1.87
Bulgaria	219.00	Lev	month	192	1.14	2000	1.0736	1.22	2.18	0.56
Canada	18.58	Dollars	hour	1	18.58	2001	1.0000	18.58	1.55	11.99
Chile	213,394.00	Pesos	month	192	1,111.43	2001	1.0000	1,111.43	634.94	1.75
Colombia	420,734.00	Pesos	month	192	2,191.32	2000	1.0797	2,365.94	2,299.63	1.03
Costa Rica	128,207.00	Colones	month	192	667.74	2001	1.0000	667.74	328.87	2.03
Croatia	4,465.00	Kunas	month	192	23.26	2001	1.0000	23.26	8.34	2.79
Dominican Republic	21.60	Pesos	hour	1	21.60	1997	1.3092	28.28	16,95	1.67
Ecuador	346.74	Dollars (US)	month	192	1.81	2000	1.0283	1.86	1.00	1.86
Egypt	121.00	Pounds	week	44	2.75	1999	1.0502	2.89	4.49	0.64
El Salvador	10.09	Colones	hour	1	10.09	2000	1.0375	10.47	8.75	1.20
Finland	12,510.00	Markkaa	manth	192	65.16	1999	1.0603	69.09	6:66	10.3
France	10,230.00	Francs	month	192	53.28	1996	1.0391	55.36	7.35	7.5
Germany	14.42	2 Euros	hour	1	14.42	2001	1.0000	14.4	2 1.12	12.8
Greece	1,539.76	5 Drachmas	hour	1	1,539.76	1998	1.0942	1,684.8	2 381.70	4.4
Guatemalà		5 Quetzales	month	192		· · · · · · · · · · · · · · · · · · ·	1.0763	+		
India		Rupees	month	192		- ili -				
			- listing a second second		1	la comune	- lan mar isana			1

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Ineland	7.18	Pounds	hour	. 1	.7.18	1998	1.1251	8.08	0.88	9.16
Israel	SEA1957 AND 6	New Shekels	menth	192	47.14	2001	1.0000	47,14	4.21	11.20
Japan	297,500.00	Yen	month	192	1,549.48	2001	1.0000	1,549.48	121.53	12.75
Jordan	5.54	Dinars	day.	8	0.69	1999	1.0246	0.71	0.71	1.00
Kenya	5,510.80	Shillings	month	192	28.70	1997	1.3124	37.67	78.56	0.48
Korea	1,702,400.00	Won	month	: 192	8,866.67	2001	1.0000	8,866.67	1,290.99	6.87
Malaysia	1,531.00	Ringgit.	month	192	7.97	2001	1.0000	7.97	3.80	2.10
Mauriüus	174.28	Rupees	day	8	21.79	2000	1.0539	22.96	29.13	0.79
Mexico	23.26	Pesos	hour	1	23.26	2001	1.0000	23.26	9.34	2.49
Netherlands	34.42	Guilders	hour	1	34.42	2000	1.0453	35.98	2.47	14.57
New Zealand	17.53	Dollars	hour	1	17.53	2001	1.0000	17.53	2,38	7.36
Nicaragua	3,272.90	Cordobas	month	192	17.05	2001	1.0000	17.05	13.37	1.27
Norway	24,426.00	Kroner	month	192	127.22	2001	1.0000	127.22	8.99	14.15
Pakistan	2,980.97	Rupees	month	192	15.53	2000	1.0315	16.01	61.93	0.26
Panama	250.90	Balboas	month	192	. 1.31	1999	1.0181	1.33	1.00	1.33
Paraguay	741,416.00	Guaranies	month	192	3,861.54	1999	1.1690	4,514.15	4,105.92	1.10
Peru	27.12	Nuevos Soles	day .	8	3.39	2001	1.0000	3.39	3.51	.0.97
Philippines	7,300.00	Pesos .	month	192	38.02	2000	1.0610	40.34	50.99	0.79
Poland	1,924.95	New Zlotys	month	192	10.03	2001	1.0000	10:03	4.09	2.45
Singapore	3,117.00	Dollars	month	192	16.23	2001	1.0000	16.23	1.79	9.07
Slovenia	178,596.00	Tolars	month	192	930.19	2001	1.0000	930.19	242.75	3.83
South Africa	4,226.00	Rand	month	192	22.01	2000	1.0483	23.07	8.61	2.68
Spain	10.46	Euro	hour.	1	10.46	2001	1.0000	10.46	1.12	9.34
Sri Lanka	27.10	Rupees	hour		27.10	2001	1.0000	27.10	89.38	0.30
Sweden	114.90	Kronor	hour	· · · ·	114.90	2001	1.0000	114.90	10.33	11.12
Switzerland	5,862.00	Francs	month	192	30.53	3 2000	1.0095			L1
Thailand	5,907.00	Baht	month	. 19:	2 30.77	7 1999	9 1.0324	31.76	44.43	0.71
Trinidad and Tobago	938.82	2 Dollars	week	4	1 21.34	1 1999	9 1.0929	23.3	6.23	3.74
Turkey	1,640,856.00	Liras	day		3 205,107.0	199	7 7.2813	1,493,455.24	1,225,590.00	1.22
United Kingdom	10.49	Pounds	hour		1 10.4	9 200	1 1.0000	10,4	0.69	15.11
United States	14.83	B Dollars	hour		1 14.8	3 200	1 1.0000	14.8	3 1.00	14.83
Zimbabwe	7,351.16	Dollars	month	19	2 38.2	9 200	0 1.767	67.6	6 50.00	1.35

and the second second	তথার বিষয়েনি	estational (denit	AT ANY
			Wheeler's wind hour
Algenia		1,650.00	0,99
Argentina		6,940.00	4:29

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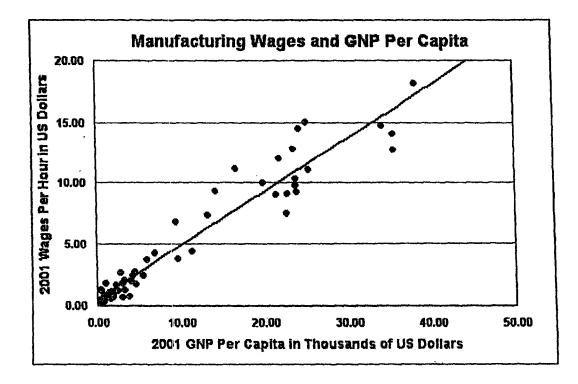
.

Australia	19,900.00	10.00
Austria	23,940.00	9.27
Belgium	23,850.00	9.82
Bolivla	950,00	0.90
Botswana	3,100.00	0.74
Brazil	3,070.00	1.87
Bulgaria	1,650.00	0.50
Canada	21,930.00	11.99
Chile ,	4,590.00	1.78
Colombia	1,890.00	1.03
Costa Rica	4,060.00	2.03
Croaba	4,550.00	2.7
Dominican Republic	2,230.00	1.6
Ecuador	1,080,00	1.8
Egypt	1,530,00	0.6
El Salvador	2,040.00	1.2
Finland	23,780.00	.10.3
France	22,730.00	7.5
Germany	23,560.00	1 2.8
Greece	, 11,430.00	4.A
Guatemala	1,680.00	1:1
India	460.00	-0.1
Ireland	22,850.00	9,1
Israel	16,750.00	11.
Japan	35,610.00	12.1
Jordan	1,750.00	1.
Kenya	350.00	0.
Korea	9,460.00	. 6.
Malaysia	3,330.00	2.
Mauritius	3,830.00	<u>'0</u> .
Mexico	5,530.00	2
Netherlands	24,330.00	, 14 .
New Zealand	13,250.00	7
Nicaragua	457.00	1
Norway	35,630.00	14
Pakistan	420.00	0
Panama	3,260.00	
Paraguay	1,350,00	1
Peru	1,980.00	0
Philippines	1,030.00	C
Poland	4,230.00	and the second sec
Singapore	21,500.00	
Slovenia	9,760.00	
South Africa	2,820.00	
Spain	14,300.00	

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Sri Lanka	880.00	0.30
Sweden	25,400.00	11.12
Switzerland	38,330.00	18,24
Thailand	1,940.00	0.71
Trinidad and Tobago	5,960.00	3.74
Turkey	2,530.00	1.22
United Kingdom	25,120,00	15.11
United States	34,280.00	14.83
Zimbabwe	480.00	1.35



	Regression Output:		
Constant			0.512269436
Std Err of Y Est			1.372926598
R Squared			0.928536609
No. of Observations			56
Degrees of Freedom			54
X Coefficient(s)		0.000436740484	
Std Err of Coef.		0.000016488034	1

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1	1		}
Wage Rate = GNP *	0.000427 + 542260		[
Avade kare = GWL	0.000437 + .512208		{
A Design of the second s	and the second	فكالمحافظ والمتحاط والمتحاط والمتحاط والمتحاد والمتحاد والمحافظ والم	<u>مانچې در پر اجمعید معنوم ماند</u> ر

General:

The selection of countries was based upon the availability of wage data as reported in the <u>Yearbook of Labour</u>. <u>Statistics 2002</u>, International Labour Organisation, (Geneva: 2002); and GNI data as reported in <u>World</u> <u>Development</u> Indicators, The World Bank, (Washington, DC: 2003 and 2004).

Notes:

Wages:

Wage rates are reported in the <u>Yearbook of Labour Statistics 2002</u>, ILO, (Geneva: 2002). Chapter 5B: Wages In Manufacturing, The years of the reported wage rates range from 1996 to 2001. Wages reported prior to 1996 and after 2002 are excluded from the analysis.

Wages reported by ILO are to most cases based on cash payments received from employers on a regular basis. In addition to remineration for normal working hours, cost of Jiving allowances and other regularly paid allowances are included in wayes. Wages do not include remuneration for overtime, bonuses and gratuities, family allowances, or other social security payments made by the employer. See <u>Yearbook of Labour Statistics</u> 2002 for further discussion of wage data.

Where monthly or dally wages are given, hourly wages are calculated assuming 24 working days per month, 5.5 working days per week, 8 working hours per day.

inflator:

Wages are inflated, where the base year is not 2001, using consumer price index data reported in <u>Internationalt.</u> <u>Financial Statistics Online Service.</u> International Monetary Fund. (http://www.imf.org). The inflator rate is calculated by dividing the consumer price index for 2001 by the consumer price index for the year the wage rate was reported.

Exchange rates:

Exchange rates are expressed as foreign currency per one U.S. dollar. For the majority of the countries in this analysis, the exchange rates used are as reported in <u>international Financial Statistics Online Service</u>.

Since exchange rates were not available in the International Financial Statistics for Austria, Belgium, Finland, France, Germany, Greece fieland, Nethedands, and Spain, the Department relied on the exchange rate Information which it regularly obtains from Dow Jones B.J.S. and the Federal Reserve and posts on the Import Administration web site for these counties. The exchange rates used are 2001 market averages.

National Income:

GNI per capita is reported in <u>World Development Indicators</u>. The World Bank, (Washington, DC: 2003 and 2004). For its regression analytis, the Department used GNI per capita figures from the 2003 publication. For its calculation of expected NME wages, the Department used GNI per capita figures from the 2004 publication. See <u>World Development Indicators</u> for further information.

GNI data was not available in the <u>World Development Indicators</u> for Nicaragua for 2001. Therefore, we used GNI data from the <u>international Financial Statistics</u>. We derived the per capita GNI from the population data included in this source.

Analysis:

Regression based on ordinary least squares method:

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Attachment 3

Size of the economy

	Population	Surface area	Population donsity	Grose nat Incom	1	Gross nat Income per	. 1		pross nation: Income ^a	•	Gr domestic	ss product
	millions	thousand sq. km	people per sq. ion	\$ billions	Tank	\$ 00003	rank	\$ billions	Per capita S	rank 2902	% growth	Per capita % growth
	2002	2002	3002	2002	2002	2002*	2002 l	2002	2002	2002 1	2001-02	2001-02
fghanistan	28*	652	43							=		
bania	3	29_	115	4.6	120	1,450	120	18	4,960	112	4.7	4.1
gene		2,382	13	53.8		1,720	114	173*	5,530	_103	4.1	
ngola	<u> </u>	<u>1,247</u> 2,780	<u> </u>	<u>9.3</u> 154.0	<u>89</u> 27	710 4,220	146	<u>- 24</u> • 387	1,840*	<u>163</u> 72	<u>15.9</u> -10.9	<u>12.0</u> -12.0
menia	3	30	109	2.4	145	790	144	10	3,230	139	12.9	13.6
ustralia	20	7,741	3	384.1	14	19,530		539	27,440	19	2,7	1.4
uștria	8	84	97	192.1	- 20 -	23,860	18	233	28,910	12	1.0	0.8
erbajan	8	87	94	5.8	108	710	146	25	3,010	142	10.6	9.8
engladesh	136	144	1,042	51.1	51	380	171	241	1,770	165	4.4	2.6
elana	10	208	48	13.5	80	1,360	124	55	5,500	105	4.7	5.2
olgium	10	31	315	237.1	18	22,940	21	291	28,130	1.6	0.7	0.2
enin	1	113	59	2.5	144	380	171	7	1,060	185	6.0	3.3
olivia	9	1,099		7.9	96	900	140	21	2,390		2.8	0.5
osnia and Herzegovina	4	51	81	5.4	112	1,310	125				3.9	2.5
otswana	2	582	3	5.1	114	3,010	88	13	7,740	84	3.1	2.1
razli	174	8,547	21	494.5	12	2,830	91	1,300	7,450	86	1.5	0.3
ulgaria	8	111	72	14.1		1,770	111	56	7,030	87	4.8	5.5
urkina Faso	<u>12</u> 7	274	<u>43</u> 275	<u> </u>	<u>139</u> 179	250	<u>187</u> 206	<u>13</u> •	1,090* 630*	<u>184</u>	<u>4.6</u> 3.6	<u>2.1</u> 1.7
ambodia	12	181	71	3.8	126	300	178	25•	1,970*	159	5.5	3.6
ameroon	16	475	34	8.7	94	550	156	30	1,910	162	4.4	2.3
anada	31	9,971	3	702.0	8	22,390	23	907	28,930	11	3.3	2.3
Central African Republic	4	623	6	1.0	171	250	187	4*	1,170*	183	-0.8	-2.2
had	8	1,284	7	1.8	151	210	194	8	1,010	187	9.9	6.7
hile	16	757	21	66.3	43	4,250	73	147	9,420	76	2.1	0.9
hine	1,280	9,598	1 137	1,234.2	6	960	136	5,792	4,520	125	8.0	7_3
Hong Kong, China	7			167.6	25	24,690	16	. 187	27,490	18	2.3	1.3
Colombia	44	1,139	42	79.6	42	1,820	109	269*	6,150*	96	1.6	0.0
Jongo, Dem. Rep.		2,345	where we should see the state	5.0	115	100	206	32*	<u>630 °</u>	204	3.0	0.0
longo, Rep.		342		2.2	147	610	153	3	710	202	3.5	0.6
losta Rica		51		16,1	75	4,070			8,560	81	3.0	1.2
tote d'hoire	17			10.2	87	620	152	24	1,450			3.8
roatia	4	57		20.3	66	4,540 h	71	45	10,000	74	5.2	5.3
Cuba			and the second s					152	****		2.0	2.1
Czech Republic		79	and a subset of the second sec	56.0	<u> 46</u> 26	5,480	<u>68</u> 9	164	<u>14,920</u> 30,600	<u>55</u> 8	2.0	
Denmark Dominican Republic	<u>5</u> 9	43		162.6	20			54*	6,270*	97	4.1	
Ecuador	13	28		19.1	70	1,490	118	43	3,340	138	3.4	
Evot, Arab Rep.	66	1.00		97.6	10 37	1,470	119	253	3,810	132	3.0	a construction of the second sec
El Salvador		2:	the State and Address of The Address	13.6	79	2,110	101	31*	4,790*	120	2.1	
Eritrea	4	11		0.8	173	190	196	4		186	1.6	
Estonia	1	4		5.7	109	4,190	75	16	11,630	63	6.0	
Ethiopia	67	1,10		6.5	102	100	206	52*			2.1	
Finland	5	33	8 17	124.2	29	23,890	17	136	26,160	25	1.	3 1.
France	59	55	2 108	1,362.1	5	22,240	24	1,609	27,040	21	1.	2 0.
Gabon	1	26	8 5	4.0	123	3,060	87		5,530	103	3.) 0.
Gambia, The	1	1		0.4	193		184					
Georgia	5	7		3.4	135	ب منصوب الأكامي بالكامي وأطعه	151	And in the local division of the local divis	ه بزمطي مقطوه المالين ا	152		And the second second
Germany	82	35		1,876.3	3		22		26,980	22	Statement in the second se	the second s
Ghana	20	23		5.5	111					and a subsect of the subsection of the subsectio		
Greece	11	13	and a second sec	123.9	30		48		18,770	43	Contraction in the second strengthere	and the second second
Guatemala	12	10		21.0	64		112					
Guinea		24	the second s	3.2	137		169		2,060			
Guinea-Bissau	1		6 51	0.2	203	3 130	205	51	• 680 [°]	• 203	i _7.	2 -9

14 2004 World Development Indicators

Size of the economy

Notice propin j statice propin j statice nut j rint j statice static static static <th>Poj</th> <th>putation </th> <th>Surlace</th> <th>Population</th> <th>Gross na</th> <th></th> <th>Gross M</th> <th></th> <th></th> <th>gross nation</th> <th>al </th> <th>Gn</th> <th></th>	Poj	putation	Surlace	Population	Gross na		Gross M			gross nation	al	Gn	
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2021 2021 2022 2022 2022 2022 2022 2022 2024 2022 2044 40													capita
Integery 10 537 10 537 10 537 10 537 133 13070 53 23 Inde 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.03 1.04 1.03 1.04 1.04 1.05 1.04 1.05 1.05 1.02 1.01 1.05 0.05 1.01 1.05 1.01												•	% growth 2001-02
Henggry 10 93 110 53.7 49 5.200 69 133 130.707 59 33 Indea 1.49 3187 353 494.4 11 470 561 2.778 2.8070 144 317 Item, Hisrok Rep. 66 1.146 40 112 33 1.770 114 439 5.907 51 5 </td <td>······</td> <td>1</td> <td>:112</td> <td></td> <td>6.3</td> <td>105</td> <td>930</td> <td>138</td> <td>17.</td> <td>2 540 1</td> <td>147</td> <td>28</td> <td>0.0</td>	······	1	:112		6.3	105	930	138	17.	2 540 1	147	28	0.0
Inde 1.049 3,827 3953 494.6 11 470 161. 2776* 2800* 148. 4.6 Non-Lingho Rep. 66 1.464 40 112.0 33 1.720 114 630 650 3.070 41. 3.7 Tem-Lingho Rep. 66 1.464 40 112.0 33 1.720 114 630 6.990 91 6.7 Tem-Lingho 4 70 77 21.0 126 126.0 26.170 41 0.0 Tem-Lingho .7 21.3 190.2 3.0 10.0 26.00 3.0 124 0.4 Tem-Lingho .7 11.2 44 7.0 100 26.00 3.0 124 0.0 3.0 3.0 2.0 3.3 3.0 0.0 3.6 0.0 3.6 10.3 134 1.1 4.0 1.4 1.1 4.0 1.1 4.0 1.1 4.0 1.0 1.0 </td <td></td> <td>10</td> <td>a name of the second se</td> <td></td> <td>strates and strategy and an</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3.6</td>		10	a name of the second se		strates and strategy and an								3.6
Island: 66 1.144 60 112.6 33 1.1720 114 438 6.900 61 61 Imped 4 70 57 90.3 82 20.00 21 112 93 11720 114 20.07 6 6.80 Immed 7 21 318 106.2 35 40.020 37 125 10.000 41 -0.8 Immed 7 21 318 106.2 35 40.00 30 125 25.070 44 0.4 Ammedia 3 11 242 7.00 100 2.680 134 11 Stemm 100 100 100 100 100 100 100 100 101 9.8 Keephonn 12 124 133 30.0 174 32 1.00 101 100 101 100 101 100 100 100 100 100 100		1,049	3,287	353	494.8	11	470	161	2,778*				3.0
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Norway 5 324 15 175.8 23 38,730 3 166 36,690 3 1.0 Oman 3 310 8 19.9 67 7,830 59 33 13,000 59 0.0 Paidstan 145 796 188 60.9 45 420 168 284 1,960 160 2.0 Panama 3 76 40 11.8 83 4,020 78 18* 6,060* 99 0.0 Panua New Guines 5 463 12 2.8 140 530 158 12* 2,180* 153 -0.0 Paragua New Guines 6 407 14 6.4 103 1.170 128 25* 4,590* 124 -2.0 Peru 27 1.285 21 54.0 47 2,020 103 130 4,880 117 4.030 Peru 27 1.285 21					the second se						195	3.0	-0.1
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	and the second subject to the second se				109.1	34	10,720					0.4	
Puerto Rico 4 9 436	lico	4		436				<u> </u>					

1 15 2004 World Development Indicators

Size of the economy

	Population	Surface	Population	Gross nat	lional	Gross nat	Isnoi	PPP	gross nation	al j	Gro	
		area	doesity	incom	••	income per	capita		Income #		domestic	product
		}										
					1		ļ		Por	- 1		Per
		thousand	people				[capita			ospita
	millions	sq. km	per sq. lun	\$ billions	rank	\$	namk 1	\$ billions	\$	rank	X growth	% growth
	2002	2002	2002	2002*	2002	2002	2092	2002	2002	2002	2001-02	2001-02
omenia		238	97	41.7	53	1,870	108	145	6,490	93	4.3	4.8
ussian Federation	144	17,075	9	306.6	16	2,130	99	1,165	8,080	83	4.3	4.8
wanda	8	26	331	1.8	150	230	191	10*	1,260 *	182	9.4	6.3
audi Arabia	22	2,150	10	186.8	21	8,530	57	277*	12,660*	60	1.0	-1.8
enegal	10	197	52	4.6		470	161	<u>15</u> •	1,540	176	1.1	-1.2
erbia and Montenegro	<u> </u>	102		11.6		1,400	123				4.0	35.7
lern Leone		72	73	0.7		140	201	3	500	208	6.3	4.2
Ingapore	4	1	6,826	<u>86.1</u> 21.3	<u>39</u> 63	20,690 3,970	<u> </u>	<u>99</u> 68	23,730 12,590	<u>31</u> 61	<u>2.2</u> 4.4	<u> </u>
lovak Republic Iovonia	2	<u>49</u> 20		21.3	<u>65</u>	3,970	52	36	12,590	45	2.9	3.6
omelia		638	<u> </u>	£V.7		10,010						
outh Africa	45	1,221	37	113.4	32	2,500	94	445*	9,810	75	3.0	1.8
pain		506	82	596.5	10	14,580	- 40-	868	21,210	36	2.0	1.6
iri Lanka	19	66	293	16.1	74	850	142	67	3,510	135	4.0	2.7
ludan	33	2,506	14	12.2	82	370	173	57•	1,740*	166	5.5	3.3
waziland	1	17	63	1.4	159	1,240	127	5	4,730	122	3.6	1.7
weden	9	450	22	231.8	19	25,970	12	230	25,820	26	1.9	1.5
witzerland		41	184	263.7	17	36,170	4	232	31,840	7	0.1	0.7
yrlan Arab Republic	17	185			69	1,130	130	59	3,470	136		0.3
ajikistan		<u>143</u> 945	45	<u>1,1</u> 9.7 ^m	<u>164</u>	<u>180</u> 290 ^m	<u>197</u> 181	<u>6</u>	<u>930</u> 580	<u>191</u> 206	<u> </u>	<u>8.5</u> 4.1
enzania halland	62	513	121	123.3	.31	2,000	104	425	6,890	88	5.4	4.7
	5	57	88	1.3	161	270	184	7.	1,450*	177	4.6	2.4
Hinidad and Tobago	1	5	254	8.8	93	6,750	63	12	9,000	79	2.7	2.1
unista	10	164	63	19.5	68	1,990	105	63	6,440	94	1.7	0.6
urkey	70	775	90	173.3	24	2,490	95	438	6,300	96	7.8	6.1
urimenistan	5	488	10		**	· · · · · · · · · · · · · · · · · · ·		23	4,780	121	14.9	13.1
iganda	25	241	125	5.9	107	240	189	33•	1,360*	190	6.7	3.8
lioraine	49	604	84	37.9	56	780	145	234	4,800	119	4.8	5.6
United Arab Emirates	3								24,030*	<u>30</u> 23	1.8	<u>-6.0</u>
United Kingdom	59288	243		1,510.8	4	25,510	13_	1,574	26,580		<u>1.8</u> 2.4	1.4
Inited States		9,629		10,207.0 14.6	$-\frac{1}{n}$	35,400		10,414 26	<u>36,110</u> 7,710	85	-10.8	-11.3
Uzbekistan		447		7,8		310	176	41	1,640	171	4.2	2.9
Venezuela, RB	25	912		102.3	36	4,080	76	131	5,220	110	-8.9	-10.5
Vietnam	80	332		34.8	57	430	166	185	2,300	151	7.0	5.8
West Bank and Gaza	3	• • • •		3.6	130	1,110	131		· ···· ····		-19,1	-22.5
Yemen, Rep.	19	525	35	9.1	91	490	160	15	800	195	3.6	0.5
Zambia	10	75		3.5	133	340	175		800	195		1.6
Zimbabwe	13	391		••	••			28	2,180	153	-6.6	-6.7
World	6,199					5.120	V	45.462 (V	1.9	
Low Income	2,495	33,61	بمريقتك الليطنيساليرين ومناد	1,070		430		5,269	2,110		4.0	
Middle Income	2,738	67,88	and the state of the second se	6,056	*****	1,850		15,884	5,800		3.1	
Lower middle income	2,408	<u>54,96</u> 12,91	and the second se	<u>3,372</u> 1,682		<u>1,400</u> 5.110		<u>12,749</u> 3,145	<u>5,290</u> 9,550		-1.2	
Low & middle income	5,232	101,49		6,123	— · · · ·	1,170		21,105	4,030		3.3	
East Asia & Pacific	1,838	16,30		1,768		960		7,874	4,280		6.7	and the second se
Europe & Central Asia	473	24,20		1,023		2,160		3,263	6,900		4,1	
Latin America & Carlo.	525	20,45		1,721		3,280		3,650	6,950		-0.1	
		11,13	the state of the second st	685		2,240		1,733	5,670		3,	
Middle East & N. Africa								Provide statements and a second statements and a secon				
Contraction of the second seco	1,401	5,14	0 293	638		460		3,453	2,460		4.:	
Middle East & N. Africa South Asia Sub-Saharan Africa	1,401 689	5,14 24,26		<u>638</u> 311		460		1,174	and the second		2.	
South Asia			7 29					and the second s	1,700			8 0.5

a. PPP is purchasing power servir; see Definitions. b. Cirkolated using the World Bank Atlas method. c. Estimate does not account for recent relative flows. d. Estimated to be low income (\$735 or less). e. The estimate is based on negression; others are estrapolated from the latost international Comparison Programme benchmark estimates. f. includes Talwan, Ching Macco, China; and Hong Kong, China; d. Estimate based on bilinteral comparison between China; and Hong Kong, China; d. Estimate based on bilinteral comparison between China; and Hong Kong, China; d. Estimate based on bilinteral comparison between China; and Hong Kong, China; d. Estimate based on bilinteral comparison between China; and Hong Kong, China; d. Estimated to be lower middle income (\$730-52,351). I off and ON por ception estimates include the Finneth overseas departments of Franch Guians, Guadeloupe, Martingue, and Relative, j. Estimated to be upper middle income (\$2,395–\$9,075). I. Estimated to be high income (\$9,076 or more). I. Excludes data for Kasovo. m. Data refer to mainland Tarxania only.

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1.6 2004 World Development Indicators

About the data

Population, land area, income, and output are basic measures of the size of an economy. They also provide a broad indication of actual and potential resources. Population, land area, income~as measured by gross national income (GNI)---and output--as measured by gross domestic product (GDP)---are therefore used throughout World Denskopment Indicators to normalize other indicators.

Population estimates are generally based on extrapolations from the most recent national census. For further discussion of the measurement of population and population growth, see About the data for table 2.1. and Statistical methods.

The surface area of a country or economy includes inland bodies of water and some coastal waterways. Surface area thus differs from land arus, which excludes bodies of water, and from gross area, which may include offshore territorial waters. Land area is particularly important for understanding the agricultural capacity of an economy and the effects of human activity on the environment. (For measures of land area and data on rural population density, tand use, and agricultural productivity, see tables 3.1–3.3.) Recent innovations in satellite mapping techniques and computer databases have resulted in more procise measurements of land and water areas.

GNI (or gross national product in the terminology of the 1968 United Nations System of National Accounts) measures the total domestic and foreign value added claimed by residents. GNI comprises GDP plus net receipts of primary income (compensation of employees and property income) from nonresident sources.

The World Bank uses GNI per capita in U.S. dollars to classify countries for analytical purposes and to determine borrowing eligibility. See the Users guide for definitions of the income groups used in World Development Indicators. For further discussion of the usefulness of national income as a measure of productivity or welfare, see About the data for tables 4.1 and 4.2.

When calculating GNI in U.S. dollars from GNI reported in national currencies, the Worki Bank follows its Allas conversion method. This involves using a three-year average of exchange rates to smooth the effects of transitory exchange rate fluctuations. (For further discussion of the Atlas method, see Statistical methods.) Note that growth rates are calculated from data in constant prices and national currency units, not from the Atlas estimates.

Because exchange rates do not always reflect international differences in relative prices, this table also

shows GNI and GNI per capita estimates converted into international dollars using purchasing power parity (PPP) rates, PPP rates provide a standard measure allowing comparison of real price levels between countries, just as conventional price indexes allow comparison of real values over time. The PPP conversion factors used here are derived from price surveys covering 118 countries conducted by the International Comparison Program. For Organisation for Economic Co-operation and Development (OECD) countries data come from the most recent round of surveys, completed in 1999; the rest are either from the 1996 surex, or data from the 1993 or earlier round and extrapolated to the 1996 benchmark. Estimates for countries not included in the surveys are derived from statistical models using available data.

All economies shown in World Development Indicators are ranked by size, including those that appear in table 1.6. The ranks are shown only in table 1.1. (World Bank Atlas includes a table comparing the GNI per capita rankings based on the Atlas method with those besed on the PPP method for all economies with available data.) No rank is shown for economies for which numerical estimates of GNI per capita are not published. Economies with missing data are included in the ranking process at their approximate level, so that the relative order of other economies remains consistent. Where available, rankings for small economies are shown in World Bank Atlas.

Growth in GDP and growth in GDP per capita are based on GDP measured in constant prices. Growth in GDP is considered a broad measure of the growth of an economy, as GDP in constant prices can be estimated by measuring the total quantity of goods and services produced in a period, valuing them at an agreed set of base year prices, and subtracting the cost of intermediate inputs, also in constant prices. For further discussion of the measurement of economic growth, see About the data for table 4.1.

Definitions

· Population is based on the de facto definition of population, which counts all residents regardless of legal status or citizenship-except for refugees not permanently settled in the country of asylum, who are generally considered part of the population of their country of origin. The values shown are midvear estimates for 2002. See also table 2.1. . Surface area is a country's total area, including areas under inland bodies of water and some coastal waterways. · Population density is midvear population divided by land area in square idiometers. • Gross mational income (GNI) is the sum of value added by all resident producers plus any product taxes (less subsidies) not included in the valuation of output plus net. receipts of primary income (compensation of employees and property income) from abroad. Data are in ourrent U.S. dollars converted using the World Bank Atlas method (see Statistical methods). . GNI per capita is gross national income divided by midyear population, GNI per capita in U.S. dollars is converted using the Workt Bank Atlas method. • PPP GNI is gross national income converted to international dol lars using purchasing power parity rates. An international dollar has the same purchasing power over GNI as a U.S. dollar has in the United States. . Gross domestic product (GDP) is the sum of value added by all resident producers plus any product taxes (less subsidies) not included in the valuation of output. Growth is calculated from constant price GDP data in local currency. • GDP per capita is gross domestic product divided by midyear population.

Dala sources

Population estimates an propagate by World Bark staff from a variety of sources (see Data sources for table 2:1). The tata on surface and land single are from the Tood and Agriculture Organization (see Data sources for table 3:1). GNT, GNI per capita, GDP growth, and GDP per capita growth are estimated by World Bank staff based on national sociums data collected by Bank staff during economic missions or reported by national statistical offices to other international organizations such as the OECD. Purchasing power party conversion factors are estimates by World Bank staff based on data collected by the international Companison Program.

Attachment 4

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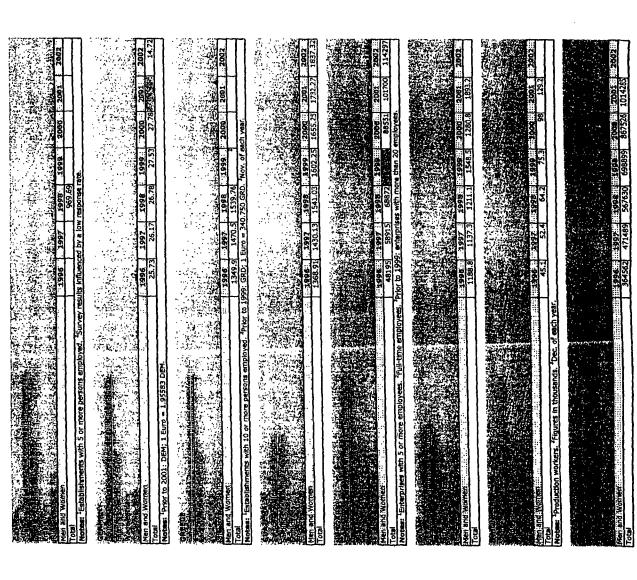
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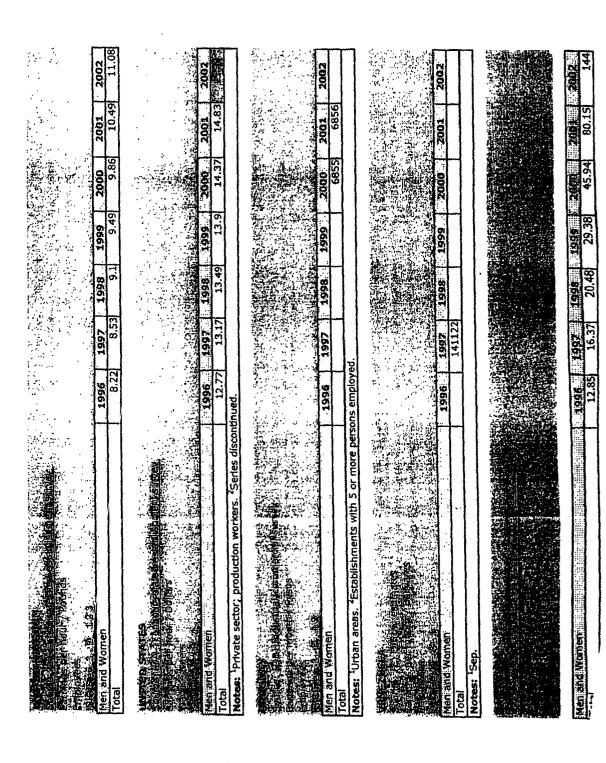
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Attachment 5

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Country	Reported	Measuring	Measuring	Hours per	Hourly	Reporting	Inflator	Inflated	2002	2002	
	Wage Rate	Currency	Unit	Measuring	Wages	Year	to 2002	Hourly	Exchange Rate, per US\$	Wages, US\$ per hour	2002 GNI
Alhania	14334	leks	month	192	74.656	2002	1.000	74.66		0.53	1,450
Alceria	12.323.00 Dinars	Dinars	month	192	64.182		1.208	77.54	79.72		
Artenting	4.29	9 Pesos	hour	-	4.290	2001	1.259	5.40	3.32		4,220
Australia	20.45	20.45 Dollars	hour	Ŧ	20.450	2002	1.00	20.45	1.76		19,530
Austria	2.046.00	Euros	month	192	10.656	2001	1.018	10.85	1.0626		23,860
Rendezh	84.85	b ka	day	8	10.606	1996	1.306	13.85	57.888		0//1
Beinitum	11	Euros	hour	1	11.000	1999	1.068	11.75	1.0626		22,940
Dolivin	1 120.00	50	month	192	5.833	2000	1.025	5.98	7.49		806
	RRG	Τ	montin	1321	4.630	2002	1.000	4.63	5.46		3,010
BOLSWAITH	CO1 A5 Reals		month	1921	4.697	2002	1.000	4.70	3.53		2,830
	201100		thom	192	1.271	2002	1.000	1.27	1.89		1,770
Buigana	UUUEVC		month	192	1265.625	2001	1.032	1306.31	3912.08	0.33	8 8
Cambodia	104		hair		19.100	2002	1.000	19.10	1.58	12.09	22,390
Canada	1.01			197	1139.271	2002	1.000	1139.27	712.38	1.60	4,250
Chile	218/40.00		in month	197	1841.615	2002	1.000	1841.61	2,864.79	0.64	1,820
Colombia	00 100 001		thinkin the	185	667.745	2001	1.092	728.93	378.72	1.92	4,070
Costa Rica	00.102,021			192	24,969	2002	1.000	24.97	7.15	3.49	4,540
Croatia	00,400,4		thoma	195	77.516	2002	1.000	77.52	32.7385	2.37	5,480
Czech Republic	14,883.001	Auna	hour		207.020	2002	1.000	207.02	7.8947	26.22	30,260
Denmark	20.102				1 270	2001	1,125	1.43	-	1.43	1,490
Ecuador	1.2.1	Collars (Co)	Tiour		3 341	2002	1.000	3.34	4.5	0.74	1,470
Egypt	14/				1 210	2002	1.000	1.21	8.75	0.14	2,110
El Salvador		100	inou		10.6801	2000	1.000	10.661	1.0626		23,890
Finland	10.66		nour	181	8.141	2002	1.000	8.14	1.0626		22,240
France	1,583.00	T		15	5 050	19981	1.161	5.86	19.9182	62.0	270
Gambia	R9.696				14 720	2002	1.000	14.72	1.0626	13.85	22,740
Germany		T	Inour		1530 7AD	1998	1.134	1745.57	325.12		11,860
Greece	1,539.76	Τ	nour	- 6	0 560	2000	1.000	9.67	7.81		1,760
Guatemala	1,837.32	3965	monu	1001	505 797	2000	1.000	595.30	257.887	2.31	5,290
Hungary	114,297.00		Innorm	402	9 AGN	2001	1.044	10.29	48.03	0.21	470
India	1,893.20		morrun		APE APAC	2000	1,100	3230.76	9311.19	0.35	210
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Israel		Shekeis		1001	1543 750	2002	1.000	1543.75	119.9	12.88	34,010
Japan			Innom		0 0ev	HUCC C	1 0181	0.98	0.71	1.38	1,760
Jordan	185		mont	1921	toe'n	2002	000	115.26	153.279	0.75	1,520
Kazakstan	-		mont	1281	1007-0C	1001	1 338	38.41	70.77	0.50	360
Kenya	-	28	month	132	201.02	2000		9671.88	1.186.20	8.15	9,930
Korea			month	132	330 1		1 031	140	0.30	4.60	16,340
Kuwait		2	5		DCC'I	360		0.76	0.62	1.23	3,480
Latvia			month	781	22.2			£1 79	64.35	0.80	1,710
Mecedonia			month	7AL	101.10		1 018	8 12	3.8	2.14	3,540
Mainysia	1,531.00	Τ	month	132	12100	2000		32.06	28.2	1.10	3,860
Maurititus	6,155.00		month	182	34.001			00.90	13.31	1.89	5.920
Mexico	25.09	Pesos	hour		Inen'07	2002	17727-1	1			

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Calculation of Hourly Wage Rates

(cont.)
Rates
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				1010 230	0000	000	257 01	1110 31	0 221	120
Mongolia	68/00/mgmms	шош	781	CI 0.700	7007		10.100	10.011	170.0	2000
Netherlands	15.62 Euros	hour	Ŧ	15.619	2000	1.0821	16.891	1.0520	DA.CT	73,330
New Zealand	18 Dollars	hour	-	18.000	2002	1.000	18.00	1.9	9.47	13,260
Ninaranta	13.46 Cordobas		1	13.460	2002	1.000	13.46	14.67	0.92	710
Norway		Γ	192	135.370	2002	1.000	135.37	6.97	19.42	38,730
Dekisten	4 113.70 Rubees	month	192	21.426	2002	1.000	21.43	58.53	0.37	420
Panama	1.8iBalboas	Г		1.800	2002	1.000	1.80	11	1.80	4,020
Deradiav	739.738.00/Guaranies	Г	192	3852.802	2002	1.000	3852.80	7,103.59	0.54	1,170
Dent	28.07 Nuevos S	olesdav	8	3.509	2002	1.000	3.51	3.51	1.00	2,020
Philippines	7.300.00 Pesos Imon	Imonth	192	38.021	2000	1.092	41.53	53.1	0.78	1,030
Datand	1 955.71 New Zioty	s month	192	10.186	2002	1.000	10.19	3.84	2.65	4,570
Dortical	610.16[Euros	month	192	3.178	1999	1.112	3,53]	1.0626	3.33	10,720
Puende	27.659.00 France	month	1921	144.057	1997	1.141	164.37	476.327	0.35	230
Cardina Cardi Arahla		week	40	16.425	1997	0.962	15.80	3.745	4.22	6,530
Serbis and Montenerin	7.666.001Dinars	Imonth	192	40.969	2002	1.000	40.97	65)	0.63	1,400
Carpia and more diversity		month	192	16.427	2002	1.000	16.43	1.74	9.44	20,690
Standia		menth	192	72.068	2002	1.000	72.07	45.3267	1.59	3,970
Siuvania		month	192	1021.979	2002	1.000	1021.98	221.07	4.62	10,370
Sloverna	5 407 M Dand	throm 1	192	27.068	2002	1.000	27.07	8.64	3.13	2,500
Sourh Airca	40.07 Euro	hour		10.970	2002	1.000	10.97	1.0626	10.32	14,580
Spain	31 03 01 01 01	hour		31.930	2002	1.000	31.93	96.73	0.33	850
Sri Lanka			1921	9.924	1997	1.527	15.15	10.5407	1.44	1,240
Swaziland		Т	421	118 200	2002	1000	118.20	8.83	13.39	25,970
Sweden		moul	1001	32.057	2002	1 000	32.06	1.39	23.06	36,170
Switzerland		thin in the	(a)	31.586	2001	1.006	31.78	43.15	0.74	2,000
I heiland	0,004.00 Daily	Third in	4	26.401	2002	1.000	26.40	6.3	4.19	6,750
Trinidad and Lobago		hour		2917600.00	2001	2.238	6,530,318	1,643,700.0	3.97	2,490
Turkey			192	35.712	2001	1.140	40.71	21.26	1.92	4,340
Uruguay		In the second		11.080	2002	1 000	11.08	0.62	17.87	25,510
United Kingdom	spuno-190'11	Liou		15 3001	2002	1 000	15,30	+	15.30	35,400
United States	- 1	mol	001	735 0101	1997	2 686	1974.24	1160.95	1.70	4,080
Venezuela		INHOIH		144 000	2004	1000	144 00	55.04	2.62	735
Zimbabwe	144 Z. Dollars	nour		1000.441	11003					

Sources: Wages, measuring currency, unit, and reporting year from ILO, Chapter 5B, on-line database, at http://laborsta.ilo.org/ imfators are based on consumer price indices from the international Monetary Fund (see attached calculations) Exchange rates from the CIA World Factbook (see attached). Countries in *bold itali*fos are those not included by the Department in its most recent calculation of NME wages for which both wage and per capita GNI data are available.

Consumer Price Indices

Country	1996	1997	1998	1999	2000	2001	2002	Base	Inflator
Algeria	87.497	£2,514	97.093	99.662	100	104.226	105.704	1996	1.208
Argentina	100.674	101.205	102.137	100.945	100	98.933	124.526	2001	1.259
Australia	93.302	\$3,536	94.334	95.717	100	104.381	107.510	2002	1.000
Austria	95.0269	£6.286	97.157	97.704	100	102.66	104.518	2001	1.018
Belgium	93,9984	95.528	96.44	97.519	100	102.474	104.157	1999	1.068
Bolivia	83.001	88.91	93.579	95.601	100	101.596	102.534	2000	1.025
Botswana	73.6942	80.12	85.457	92.08	100	106.559	115.119	2002	1.000
Brazil	80.74	£6.332	89.091	93.42	100	106.84	115.866	2002	1.000
Bulgaria	8.429	74.47	88.375	90,649	100	107.301	113.599	2002	1.000
Canada	93.233	\$4.745	95.68	97.327	100	102.532	104.837	2002	1.000
Chile	83.534	88.659	93.188	96.299	100	103.569	106.147	2002	1.000
Colombia	58.7451	€9.587	82.579	91.557	100	107.968	114,822	2002	1.000
Costa Rica	64.751	73.318	81.871	90.096	100	111.227	121,418	2001	1.092
Croatia	82.844	86,299	91.819	94.998	100	104.760	106.547	2002	1.000
Ecuador	18.839	24.612	33,497	50.996	100	137.678	154.866	2001	1.125
Egypt	86.678	90.6874	94.477	97.386	100	102.27	105.069	2001	1.027
El Salvador	90,786	\$14.862	97.278	97.779	100	103.751	105.686	2001	1.019
Finiand	93.2	94.314	95.633	96.742	100	102,566	104.183	2002	1.000
France	96.041	97.194	97.8474	98,337	100	102.500	103.62	2002	1.000
Germany	95.292	97.083	97.992	98.55	100	101.975	103.375	2002	1.000
Greece	95.1486	90.192	94.468	96.947	100	103.361	107.095	1998	1.134
Guatemala	77.01	84.121	89,983	94.36	100	107.634	116.276	2000	1,163
India	75.699	81,122	91.856	96,145	100	103.685	108.239	2000	1.044
ireland	89.736	90.993	93.204	94.729	100	104.872	109.768	2002	1.000
Israei	81.783	89,145	93.985	98.872	100	101.1	106.8	2002	1.056
Japan	98.65	100.358	101.017	100,675	100	99.267	98.358	2002	1.000
Jordan	82.954	95.7778	98,739	99.338	100	101.788	103.644	2002	1.018
Kenya	72.351	80.5718	85.988	90.926	100	105,739	107.812	1997	1.338
Korea	86.4	90.2	97	97.8	100	104.1	106.9	2002	1.000
Malaysia	88.697	01.059	95.858	98.489	100	101.417	103.25	2002	1.018
Mauritius	78.668	84.0437	89.768	95.97	100	105.389	112.472	2002	1.000
Mexico	56.018	67.573	78.336	91.328	100	106.363	111.714	2002	1.000
Netherlands	91.598	93.573	95.428	97.538	100	104.534	108,159	2000	1.082
New Zealand	95.21	96.329	97.569	97.447	100	102.626	105.373	2002	1.000
Nicaragua	65.287	71.31	80.607	89.649	100	107.356	111.645	2002	1.000
Norway	90.371	92.704	94.7946	97.006	100	103.017	104.344	2002	1.000
Pakistan	77.764	86.611	92.005	95.816	100	103.148	106.542	2000	1.065
Panama	95.504	96,769	97.31	98.523	100	100.307	101.316	2002	1.000
Paraguay	72.031	77.065	85.954	91.757	100	107.268	118.54	2002	1.000
Peru	80.002	86.852	93.147	96.379	100	101.977	102.173		1.000
Philippines	77.32	81.845	89.801	95.825	100	106.123	109.242	2000	1.092
Poland	65.812	75.738	84.618	90.803	100	105.506	107.491	2002	
Singapore	96.962	98.905	98.6402	98.657	100	100.997	100.602	and the second se	
Slovenia	74	80.2	86.6	91.9	100	108.5	116.6		
South Africa	77.7593	84.445	90.2551	94.932	100	105.702	115.388		1.092
Spain	91.003	92.796	94.498	96.681	100	103.591	106.788		
Sri Lanka	75.072	82.259	89.962	94.183	100	114.158			
Sweden	98.275	98.926	98.658		100	102.416			
Switzerland	97.151	97.658	97.674		100	100.988	the second s	the second s	
Thailand	86.025	90.828	98.167	98.47	100	101.661	101.83		
have been a second and the second	the second s	Contraction of the local division of the loc		the second se	_				_
Trinidad and Tobago	85.302	88.395	93.356		100	105.537			
Turkey	11.417	21.205	39,154		100	154.400		the second s	
United Kingdom	89.697	92.506	95.668		100	101.821	the second s		
United States	91.086		94.662	96.733	100	102.826	the second s	_	1.000
Zimbabwe	25.86	30.705	40,475	64.16	100	176.71	424.25	6 200	2.401

Added Countries with Latest Wage Rates Prior to 2002

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Bangladesh	80.711	85.062	92.209	97.84	100	102.007	105.407	1996	1.306
Cambodia	81.82	84.415	96.914	100.798	100	99.399	102.594	2001	1.032
Fil	91.768	97.010	98.920	100.000	104	105.067	109.451	1999	1.095
Gambla	91.849	94.404	97.701	99.81	100	108.083	113.423	1998	1.161
Indonesia	45.174	48.215	76.007	91.453	100	112.549	123.833	2001	1.100
iran	52.599	61.724	72.752	87.354	100	111.274	127.226	2001	1.143
Kazakstan	64.854	76.144	81.586	88.354	100	108.354	114.679	1997	1.506
Kuwait	94.602	95.224	95.367	98.219	100	101.657	103.075	2000	1.031
Portugal	90.571	92.529	95.042	97.232	100	104.395	108.096	1999	1.112
Rwanda	82.581	92,503	88.248	95.884	100	102.983	105.508	1997	1.141
Saudi Arabla	102.816	102.874	102.507	101.138	100	98.862	98.947	1997	0.962
Solomon Islands	71.180	76.934	86.473	93,409	100	108.886	117,742	1996	1.654
Swaziland	72.535	77.703	84,005	89.12	100	105.942	118.676	1997	1.527
Uruguay	68.042	81.527	90.341	95,453	100	104.359	118.941	2001	1.140
Venezuela	34.184	51.289	69.641	86.055	100	112.535	137.779	1997	2,686

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Source: International Financial Statistics of the IMF.

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	Tond Pactodok ** Pield Listing - Exchange Fa		_
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fi	ield Listing - Oxchan	ge reker	
	Monic Ref	renos Keps Angendines	
	Country	Exchange rates	
	THE REAL PROPERTY OF THE PROPE	ardiannas par view nollait - 50 (2013), 40 (2022), 3 000 (2011), 3 000 (2017) (2001), 2 (000 (2003) note: The 2012, The antitates van revolution and that company, are placed an appen 50 at heaths togram, dollare instance 2002, the condicat relativities (when y training official togo.	
	<u>Albania</u>	leke per US dollar - 121.863 (2003), 140.155 (2002), 143.485 (2001), 143.709 (2000), 137.691 (1999)	
	olicionar Alternative Alternat	AMPERENDUATE DEN US DOMAR 200 905 (2004), 20 0210 (2002), 3 (200 (20010), 250 590 (2009), 1560 5 (390 04900), 200 5 (2002), 200 (2002), 200 (2002), 200 (2002), 200 (2002), 200	
	American Samoa	the US dollar is used	
	Andorran	regroe har of children of state chores, frite as (22002), frita (2002), so (2) (2000), chiert (1992))	
	<u>Angola</u>	kwanza per US dollar - 74.6063 (2003), 43.5302 (2002), 22.0579 (2001), 10.041 (2000), 2.791 (1999), 0.393 (1998); note - in December 1999 the kwanza was revalued with six zeroes dropped off the old value	
· ·	Anguilla	East combinence dillara per US. dollari, -20/0- m courater street 20/60/ 2000	
• • • •	<u>Antigua and</u> <u>Barbuda</u>	East Caribbean dollars per US dollar - 2.7 (2003), 2.7 (2002), 2.7 (2001), 2.7 (2000), 2.7 (1999), 2.7 (1998) (fixed rate since 1976)	
	Argentina	Alcentine (Geospie aus. dollar), 2,9003 (2003), 2005 (2002), 200995 %. (2007) N. SUDN (2006), 6,9095 (1999), 2007 (2007), 2007 (2007), 2007 (2007), 2007 (2007), 2007 (2007), 2007 (20	
	<u>Armenia</u>	drams per US dollar - 578.763 (2002), 555.078 (2001), 539.526 (2000), 535.062 (1999)	
	APUBEL	Annen childer Annins read Stallmann 29 (2003), 179 (2003), 4729, 57 Contrative Contration Contration (2003), 179 (2003), 179 (2003), 179 (2003), 179 (2003), 179 (2003), 179 (2003)	

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CLA - The World Factbook - Field Listing - Exchange rates

<u>Australia</u>	Australian dollars per US dollar - 1.5419 (2003), 1.8406 (2002), 1.9334 (2001), 1.7248 (2000), 1.55 (1999)
<u>.WEGTE</u> R	201051047.050001477.01886020013043062677.00230631475100003348477 200854020003-0-9186501999334555114445545555555555555555555555
<u>Azerbaijan</u>	Azerbaijani manats per US dollar -⁄ 4,910.73 (2003), 4,860.82 (2002), 4,656.58 (2001), 4,474.15 (2000), 4,120.17 (1999)
<u>Bilannas, die</u> r	
Bahrain	Bahraini dinars per US dollar - 0.376 (2003), 0.376 (2002), 0.376
Banqladesh	(2001), 0.376 (2000), 0.376 (1999) /5k/ms/JJS/Jellar 558/15/2008/157/888/2002//5558067/20019
Barbados	Sz (1417/12000)) (49)0854 (11990) Barbadian dollars per US dollar - 2 (2003), 2 (2002), 2 (2001), 2
Belarus	(2000), 2 (1999) Belandslap, rubles per US (2003) 4 (2003) 4 (2007), 1 (2003)
BABARS	C/00101876-75 (C2000) 208 295 (1999)
<u>Belglum</u>	euros per US dollar - 0.886 (2003), 1.0626 (2002), 1.1175 (2001), 1.0854 (2000), 0.9386 (1999)
<u>Belize</u>	Relizean dollars percisidollars 23,2003) (2002) 27 (2001) 22 (2000) 27 27 (1999)
<u>Benin</u>	Communaute Financiere Africaine francs (XOF) per US dollar - 581.2 (2003), 696.988 (2002), 733.039 (2001), 711.976 (2000), 615.699 (1999)
<u>Barmula</u>	Bernudian dollar ber US dollar. 1 rougo krixegy at epegged korne US so Dollari si sa se
<u>Bhutan</u>	ngultrum per US dollar - 46.5806 (2003), 48.6103 (2002), 47.1864 (2001), 44.9416 (2000), 43.0554 (1999)
Bolivia	bollvianos pen US dollar - 7659292003177 127(20021, 6 5069 (2001)) 6 6 6 8 5 1 2000), 5 8 1 2 4 1 0 9 5 2 4 7 5 5 7 5 7 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
<u>Bosnia and</u> Herzegovina	marka per US dollar - 1.7329 (2003), 1.7329 (2002), 2.1857 (2001), 2.1244 (2000), 1.8371 (1999)
Buswing	ni (as pecius (b)) ar 24 pago (p2013) scrept/ar 2002) As an 24 pago (p2013) scrept/ar 2002) ar az a scrept/ar 2002) ar a scrept/ar 2002) ar a scrept/ar 2002) ar a scrept/ar a scrept/ar a
<u>Brazil</u>	reals per US dollar - 3.0771 (2003), 2.9208 (2002), 2.3577 (2001), 1.8301 (2000), 1.8147 (1999) note: from October 1994 through 14 January 1999, the official rate was determined by a managed float; since 15 January 1999, the official rate floats independently with respect to the US dollar
Ballish Virom Gibinos	
<u>Brunei</u>	Bruneian dollars per US dollar - 1.7422 (2003), 1.7906 (2002), 1.7917 (2001), 1.724 (2000), 1.695 (1999)
Bulgarday	re leva penus dollar (, 7827 (2003), 22077 (2002), 23847 (2001), 3484 8 2(289) (2000), 118364 (1999) 9 10 2 4 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

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CIA - The World Pactbook - Field Listing - Exchange rate:

Burkina Faso	Communaute Financiere Africaine francs (XOF) per US dollar - 581.2 (2003), 696.988 (2002), 733.039 (2001), 711.976 (2000), 615.699 (1999)
	enders (1996) des ensissionen ander an An Det andere ander a Anders andere ander a Anders andere ander a
<u>Burundi</u>	Burundi francs per US dollar - 1,082.62 (2003), 930.75 (2002), 830.35 (2001), 720.67 (2000), 563.56 (1999)
<u>Carnoadha</u>	na a ga ta na ang kana na kana Na kana na kana
<u>Cameroon</u>	Communaute Financiere Africaine francs (XAF) per US dollar - 581.2 (2003), 696.988 (2002), 733.039 (2001), 711.976 (2000), 615.699 (1999)
	 An anomalies model and control control is some as a second second control is a second second control of the second se second second sec
<u>Cape Verde</u>	Cape Verdean escudos (CVE) per US dollar - 97.703 (2003), 117.168 (2002), 123.228 (2001), 115.877 (2000), 102.7 (1999)
Environ Seriele	a paramente de las malares de las las las del se las las de las
<u>Central African</u> Republic	Communaute Financiere Africaine francs (XAF) per US dollar - 581.2 (2003), 696.988 (2002), 733.039 (2001), 711.976 (2000), 615.699 (1999)
	(c) Frity, Security Products in Frity and Frity Devices (5.8) (Construction Security Construction Constr Construction Construction C
<u>Chile</u>	Chilean pesos per US dollar - 691.433 (2003), 688.936 (2002), 634.938 (2001), 535.466 (2000), 508.777 (1999)
<u>Christmas Island</u>	Australian dollars per US dollar - 1.5419 (2003), 1.9354 (2002), 1.9320 (2001), 1.7173(2000), 1.5497 (1999)
Gertes (Kealling) Lachtes	A REAL AND DE MERICAN DE LE CONTRACTOR DE LA CONTRACTOR DE C
<u>Colombia</u>	Colombian pesos per US dollar - 2,877.65 (2003), 2,504.24 (2002), 2,299.63 (2001), 2,087.9 (2000), 1,756.23 (1999)
Commiss	Consider marser with preside and sets without a reasonable of the sets of the set of
	าในโลกที่มีสุขที่มีของชื่อได้มีกละมี ซึ่งไม่ได้ หัวได้ มีปละ โลกลางที่เสียง (1877) ให้มาบาท การที่มีกลรัฐเหลาสุขุมของว่าไปกลางก่าง การที่ได้ได้กลางก่างการที่สามารถการที่ได้ได้ได้ได้ได้ได้ได้ได้ได้ได้ได้ไ
<u>Congo, Democratic</u> <u>Republic of the</u>	Congolese francs per US dollar - NA (2003), 346.485 (2002), 206.617 (2001), 21.82 (2000), 4.02 (1999)
Collin, Rendific of the	tion minimum and the stream of the states per of August 1811.

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CLA - The World Factbook - Field Listing - Exchange rates

	New Zealand dollars per US dollar - 1.7229 (2003), 2.1622 (2002), 2.3776 (2001), 2.1863 (2000), 1.8886 (1999)
C. L. M.C.	europikoem colonis her op ander 1915 ånder 2008 (* 19 5 er 19 19 10 5) 27 Style (2018) (* 19 19 19 19 19 19 19 19 19 19 19 19 19
	Communaute Financiere Africaine francs (XOF) per US dollar - 581.2 (2003), 696.988 (2002), 733.039 (2001), 711.976 (2000), 615.699 (1999)
COLLO	anna mar 181 anna a 70 an 1200 a' 1860 a 1600 a' 1970 a 1977 ao 2000 a' 1971 a' 1970 a'
	Cuban pesos per US dollar - 1.0000 (nonconvertible, official rate, for international transactions, pegged to the US dollar); convertible peso sold for domestic use at a rate of 27 pesos per US dollar by the Government of Cuba (2002)
Cynnis	Control monant per (18), allas - Grettels (2016), Grettels (2018), Oren (2019) (2011), Orte 46 (2006), Orte (2019), Tarenin (19 16), alla doine (2019) (2011), Orte 46 (2007), Armon (2017), 523, huy (2014), 523, 214 (2010), Philippi (2019)
Czech Republic	koruny per US dollar - 28.209 (2003), 32.7385 (2002), 38.0353 (2001), 38.5984 (2000), 34.5692 (1999)
Q-11 minit	Dendsh kranen ber Usthaler - 6 Sarzi (2000), zaveri (2005), sisteri (2005), a martin2000), e bizza (1999)
<u>Djibouti</u>	Djiboutian francs per US dollar - 177.721 (2003), 177.721 (2002), 177.721 (2001), 177.721 (2000), 177.721 (1999)
Bomintea	Energy in the second
Dominican Republic	Dominican pesos per US dollar - 30.8307 (2003), 18.6098 (2002), 16.9516 (2001), 16.415 (2000), 16.0331 (1999)
Bist Ruce	
<u>Ecuador</u>	Ecuador formally adopted the US dollar as legal tender in March 2000
50708	Novillsen gounds car fist dallah - 5 8509 (COULI) / 4992 (2002) / (17) (2001) - 3,472 ((2000) - 3 (1953 ((1995)
<u>El Salvador</u>	the US dollar is the legal tender
Freenorteil Hulmer	Summinally, Tablesian Abreau Frees (2011) fair 185 (1984) 383 2 (2005), 596 (2005), 745 (239 (2304)) 744, 976 (2309) (215, 69) (1999)
<u>Eritrea</u>	nakfa (ERN) per US dollar - NA (2003), 13.9582 (2002), 11.3095 (2001), 9.5 (2000), 7.6 (1999)
EMORE	North (par 105 dollar = 23 3353 (2007), 16 at 182(2002), 3 / 4280 (2011), 16 9606 (2000), 13 6726 (1999)
<u> Ethiopia</u>	birr per US dollar - NA (2003), 8.5678 (2002), 8.4575 (2001), 8.2173 (2000), 7.9423 (1999) note: since 24 October 2001 exchange rates are determined on a daily basis via interbank transactions regulated by the Central Bank
fulkend Lambs (tabs Milving)	Fushing pairies for Us down to entre examine o bertanno) readouter (2001), (1.504 (2000), reals (1500), dans? Ploater new she Pushing poppel braic for with she bringh pockid

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a se se se	Faroe Islands	Danish kroner per US dollar - 6.5877 (2003), 7.89 (2002), 8.323	
		(2001), 8.083 (2000), 6.976 (1999)	
		Hinn dollars benus dollar. 200998 (2005) /2 (1869) 2002 / 222 /657 (22006) 242286 (2000) 212/596 (0999)	
	<u>Finland</u>	euros per US dollar - 0.886 (2003), 1.0626 (2002), 1.1175 (2001), 1.0854 (2000), 0.9386 (1999)	
	niance service aver	2010S0FT4LS-061664-018866420030-1106264(20020), 1144-564200311, 1144- 11035514200001, 056886444990, 1144-	
	<u>French Guiana</u>	Euros per US dollar - 0.886 (2003), 1.0626 (2002), 1.1175 (2001), 1.0854 (2000), 0.9386 (1999)	
	<u>Rench Polynesia</u>	comptons in an calculating degrades of PUP DEFUS John 2007 (2007) (2003) 112(372) (2002) 123 126 (2001) (29 23) (2000) 20 (2007) (2007) Vote: reaged active a least W9(25 XPF or the aproximation of the statement	
	<u>Gabon</u>	Communaute Financiere Africaine francs (XAF) per US dollar - 581.2 (2003), 696.988 (2002), 733.039 (2001), 711.976 (2000), 615.699 (1999)	
	<u>comblaathe</u>	Hushabal Sheillan Solare 20020 1992 192 (2002) 25155 22 (2002) 1993 1993 1993 1993 1993 1993 1993 199	
	<u>Gaza Strip</u>	new Israeli shekels per US dollar - 4.55 (2003), 4.74 (2002), 4.21 (2001), 4.08 (2000), 4.14 (1999)	
	<u>Georetti</u>	lani pen 75 dollari - 2 1457 (2007) n.2 4957 (2002), 2 0 57 (2004) 1.9752 (2001), 2 0 35 (1999)	
	Germany	euros per US dollar - 0.886 (2003), 1.0626 (2002), 1.1175 (2001), 1.0854 (2000), 0.9386 (1999)	
	<u>Giana</u> a sa sa sa sa	coults per US (fallets, IMA (2003), 79292 / (2002)), 74770, 65 (2001), a	
	<u>Gibraltar</u>	Gibraltar pounds per US dollar - 0.6661 (2002), 0.6944 (2001), 0.6596 (2000), 0.6180 (1999), 0.6037 (1998); note - the Gibraltar pound is at par with the British pound	
	<u>Gielee</u> ekst	Ceuros Den U.S. dollar, - 0 885 (2002) 4: 0526 (2002), 1: 075 (2001)). Dar 099 (2000) 305 aux (2005) 4: 0526 (2002)	
	<u>Greenland</u>	Danish kroner per US dollar - 6.5877 (2003), 7.8947 (2002), 8.323 (2001), 8.083 (2000), 6.976 (1999)	
	<u>almero</u>	Чески Сърболани колагария из deller - 27. (2009), 27 (2007), 27. (2005), 27 (2000), 177 (2099), - 17	
	Guadeloupe	euros per US dollar - 0.886 (2003), 1.0626 (2002), 1.1175 (2001), 1.0854 (2000), 0.9386 (1999)	
	<u>duam</u> (1977)	Reuseding deed	
	Guatemala	quetzales per US dollar - 7.9409 (2003), 7.8216 (2002), 7.8586 (2001), 7.7632 (2000), 7.3856 (1999)	
	Gilensev	s, cuemisey podnos partos dolare or cost (0002)%0(6944) 2000), crospor (2000), crassoccopo) colare (1998), botes, ine superiory cound is a c part with the Baltish bounds (2022)	
	<u>Guinea</u>	Guinean francs per US dollar - NA (2003), 1,975.84 (2002), 1,950.56 (2001), 1,746.87 (2000), 1,387.4 (1999)	

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		1999) Marsol A (Marva99) Micial Control Dissource of the state of the solution of the soluti	
	<u>Guyana</u>	Guyanese dollars per US dollar - NA (2003), 190.665 (2002), 187.321 (2001), 182.43 (2000), 177.995 (1999) God desider US dollar: 40 5720084/2023054(20024),2234(291)(2001), 15	
::	Holy See (Vatican	21.12772(2000)+15/9970(01999)17/17/2014/02/02/02/02/02/02/02/02/02/02/02/02/02/	
	<u>C(ty)</u>	euros per US dollar - 0.886 (2003),1.1324 (2002), 1.1175 (2001), 1.0854 (2000), 0.9386 (1999)	
, ,	Honduras Constant	ter bit spec US dollars 17.3450, 2003) 4.5410 (2002), 1547237. (2001) 1918392 (2000) 24210 (4939) 4.241 (2003), 7.7989 (2002), Hong Kong dollars per US dollar - 7.7868 (2003), 7.7989 (2002),	
	<u>Hong Kong</u> Hungary and Series	7.7988 (2001), 7.7912 (2000), 7.7575 (1999)	11-11-11-11-11-11-11-11-11-11-11-11-11-
	Iceland	2824/2020001/257-110(1999) Icelandic kronur per US dollar - 76.709 (2003), 91,6617 (2002),	
		97.4246 (2001), 78.6159 (2000), 72.3353 (1999) In Jan Jupers Decuys dollar: 465.896 (2001), 4816 (05.0002) 47.1867	
	Indonesia	Indonesian rupiahs per US dollar - 8,577.13 (2003), 9,311.19 (2002), 10,260.8 (2001), 8,421.77 (2000), 7,855.15 (1999)	
	uran :		
		Control Votala 200012-752, 21 COLETO Index Deninas gegi Districti managed Dostoro, exclusive de regime d'ar Ennes minvinos polítiple excitance (stress in March 2002)	
	<u>Iraq</u> Ikaland	New Iraqi dinars per US dollar - 1,890 (second half, 2003)	
	<u>Israel</u>	new Israeli shekels per US dollar - 4.5541 (2003), 4.7378 (2002),	
	Laiv	4.2057 (2001), 4.0773 (2000), 4.1397 (1999) #11/15/06-35 Mollan: 20.886 (2003), 4.0026, 2002), 11025, 2003) 1.253	
	<u>Jamaica</u>	Jamaican dollars per US dollar - 57.7409 (2003), 48.4159 (2002), 45.9962 (2001), 42.7011 (2000), 39.0435 (1999)	
	<u>papan</u>		
	Jersey	Jersey pounds per US dollar - 0.6661 (2002), 0.6944 (2001), 0.6596 (2000), 0.6180 (1999); the Jersey pound is at par with the British pound	
	o <u>tordeni</u>	20012301a0vdinars.per.USid01a1c304209420041); 0770542002974520934-24 20015357709,2000370720941995034424444444444444444444444444444444444	
	<u>Kazakhstan</u>	tenge per US dollar - 149.576 (2003), 153.279 (2002), 146.736 (2001), 142.133 (2000), 119.523 (1999)	

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'S-11/2)	(san ann ann an as ann an 1857 ann an 1877). Fairte 1967, 76 Canadain an Carl (1989) an Ann a
<u>Kiribati</u>	Australian dollars per US dollar - 1.5419 (2003), 1.8406 (2002), 1.9334 (2001), 1.7248 (2000), 1.55 (1999)
Corei, Manii,	Diriclaff, Norwy Korean won, nefr Ut. (Dilif) > 1500 (Decentre)/2002)). 20.5 to . Nor denoting ((M.), 1515 (New York), 2007 (New Yelski), 2007 (September)/ (ΩDC.), 2007 (Engeny), (Suc), 1615 (Sectore) (Sectore) (Sectore).
	(10) filler (Decompary 20)21, 200 etheraniter 2005) (2015) (2015)
Korea, South	South Korean won per US dollar - 1,191.61 (2003), 1,251.09 (2002), 1,290.99 (2001), 1,130.96 (2000), 1,188.82 (1999)
Rowens	1899 Auguments 1947 DS Holland O 2007, 0029 4020397 (2002) 2008 Auguments 1947 Auguments 1947 Auguments 1947 Au 1920 Auguments 1950 Auguments 1950 Auguments 1957 Auguments 1957 Auguments 1957 Auguments 1957 Auguments 1957 Au
<u>Kyrgyzstan</u>	soms per US dollar - 43.6484 (2003), 46.9371 (2002), 48.378 (2001), 47.7038 (2000), 39.0077 (1999)
	Stars and User trillion (11, 423 (2000)), 10, 05, 03, 000(2), 00200, 002000), //387 Star 2000(17, 002, 02, (1299))
<u>Latvia</u>	lati per US dollar - 0.5715 (2003), 0.6182 (2002), 0.6279 (2001), 0.6065 (2000), 0.5852 (1999)
<u>แอยสมอก</u> กุลไม่	1996 hase bounds car U.S (2000) 1,507,712 (2005) 1,107,752 (2007) 1,507 (2007) 1,507 (2007) 1,507 (2000) 1,507 (2000) 1,507 (2007) 1,50
<u>Lesotho</u>	maloti per US dollar - 7.5648 (2003), 10.5407 (2002), 8.6092 (2001), 6.9398 (2000), 6.1095 (1999)
Libara, consistentes se seccionates	PERSIDE COMPANY AND A DESCRIPTION OF THE PROPERTY SET $\mathcal{O}(M)$ and $$
<u>Libya</u>	Libyan dinars per US dollar - 1.2929 (2003), 1.2707 (2002), 0.6051 (2001), 0.4994 (2000), 0.3936 (1999)
Liselitenstelli	SWISS FEDGESTICS US TO FERENCE AND A CORDAN ASSISTED AND AND AND AND AND AND AND AND AND AN
Lithuania	litai per US dollar - 3.0609 (2003), 3.677 (2002), 4 (2001), 4 (2000), 4 (1999)
Lucations:	************************************
Macau	patacas per US dollar - 8.0212 (2003), 8.0334 (2002), 8.0335 (2001), 8.0259 (2000), 7.9919 (1999)
Arterioniterinerari Fernier Artoshi?	Chargeloatan, Jamis per Osciolar, TA (2003), 213 (1986 (2002), 60,0047.04 (2004), 45 (2000), 55 (2017), (2020), 12 (2020), 23 (2020), 24 (2020), 25 (20
Republicion, service Madagascar	Malagasy francs per US dollar - 6,210 (2003), 6,831.96 (2002),
Menawi	6,588.49 (2001), 6,767.48 (2000), 6,283.77 (1999) Matematic Wathas neuros 1014, 2013 (2013), 26,5866 (2007) (24,59/3), 2
<u>Malaysia</u>	ringgits per US dollar - 3.8 (2003), 3.8 (2002), 3.8 (2001), 3.8 (2000),
Matalizes	3.8 (1999) 1001/22/02/11/2000/21/12/22/2000/21/12/22/2000/24/12/2000

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<u>Mali</u>	Communaute Financiere Africaine francs (XOF) per US dollar - 581.2 (2003), 696.988 (2002), 733.039 (2001), 711.976 (2000), 615.699 (1999)
Malta Malta	Maltese ille per US dellar - 10 3722120033004-986 (2002) 40 45011 - 2 501 (20031105382 (2000) - 0 3989419901875 - 4 5 5 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5
<u>Man, Isle of</u>	Manx pounds per US dollar - 0.6125 (2003), 0.6661 (2002), 0.6944 (2001), 0.6596 (2000), 0.6180 (1999); the Manx pound is at par with the British pound
Marshalluslanus	menus adilariis me legal tender te za pravitare a mare a se a service a
<u>Martinique</u>	euros per US dollar - 0.8860 (2003), 1.0626 (2002), 1.1175 (2001), 1.0854 (2000), 0.9386 (1999); French francs per US dollar - 5.8995 (1998)
Mauritania	
<u>Mauritius</u>	Mauritian rupees per US dollar - 27.9015 (2003), 29.962 (2002), 29.1293 (2001), 26.2496 (2000), 25.1858 (1999)
	20105 280 05: 00167 20 0860 (2002) A 1 0526 (2002) Mr. 1 75 20000 11 085 (10000) 20 0886 (2999) 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
<u>Mexico</u>	Mexican pesos per US dollar - 10.789 (2003), 9.656 (2002), 9.3423 (2001), 9.4556 (2000), 9.5604 (1999)
Micronesta. Federated States of .	
<u>Moldova</u>	lei per US dollar - 13.9449 (2003), 13.5705 (2002), 12.8651 (2001), 12.4342 (2000), 10.5158 (1999) 21/d5.0er 95.dollar: (038600 (2003), 15062572002), 1414-5122011, 254
Monaco	togrogs/tugriks per US dollar - 1,171 (2003), 1,110.31 (2002), 1,097.7
Mongolia	(2001), 1,076.67 (2000), 1,021.87 (1999)
Montserrat er de la	ne se canbieandollars perius dollars 27/0001/02edrate since 12/001/02
Morocco	Moroccan dirhams per US dollar - 9.5744 (2003), 11.0206 (2002), 11.303 (2001), 10.6256 (2000), 9.8044 (1999)
Mozamblaurs	THEROME TO TO THE TO THE TOTAL AND THE TOTAL A
Magazine (Magazine Magazine (Magazine)	inges-stractive contracts 2000, the excitance rate is naterialized as the hyereneas a characterial budying and saling excitance rates of all wereneas donted working reliable and saling excitances and shall a solution of the
<u>Namibia</u>	Namibian dollars per US dollar - 7.5648 (2003), 10.5407 (2002), 8.6092 (2001), 6.9398 (2000), 6.1095 (1999)
Nauro	A AVSTRAIIAN dollars per US dollars (15)194/2003) SI 2501 (20012) (29)20 c2001 (17,175 (2000)) (5,197/(1999)) C2003 (2001) C312 (2001) (2001)
Nepal	Nepalese rupees per US dollar - 76.1414 (2003), 77.8766 (2002), 74.9492 (2001), 71.0938 (2000), 68.2394 (1999)
Netherlands Marcula Marcula	2 EUrosiper US dollar - D'886 (2003) (1.0626 (2002)) (1.1751/2001) (2.75 (1.0854 (2.000)) (0.9386 (1.999) (7.55) (2.75) (
Netherlands Antilles	Netherlands Antillean guilders per US dollar - 1.79 (2003), 1.79 (2002), 1.79 (2001), 1.79 (2000), 1.79 (1999)

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New Zealand New Zealand dollars per US dollar - 1.7229 (2003), 2.1622 (2002), 2.3768 (2001), 2.2012 (2000), 1.6896 (1999) Niger Communaute Financiere Africaine francs (XOP) per US dollar - 581.2 (2003), 695, 986 (2002), 733.039 (2001), 711.976 (2000), 615.699 (1999) Niger Communaute Financiere Africaine francs (XOP) per US dollar - 581.2 (2003), 695, 986 (2002), 733.039 (2001), 711.976 (2000), 615.699 (1999) Nige New Zealand dollars per US dollar - 1.7229 (2003), 2.1620 (2002), 2.3776 (2001), 2.1663 (2000), 1.6886 (1999) Northern Mariana Islands The US dollar is used Oman Omani risis per US dollar - 0.3845 (2003), 0.3845 (2002), 0.3845 (2001), 0.3845 (2000), 0.3845 (1999) Oman Omani risis per US dollar - 3.5635 (2003), 0.3845 (2002), 0.3845 (2001), 0.3845 (2000), 0.3845 (1999) Papua New Guinea Kina per US dollar - 3.4785 (2003), 3.3897 (2001), 2.7822 (2000), 2.5708 (1999) Partern Islands New Zealand dollars per US dollar - 3.4785 (2003), 3.3887 (2001), 2.7822 (2000), 3.333 (1999) Partern New Guinea Kina per US dollar - 3.4785 (2003), 3.5165 (2002), 3.5068 (2001), 3.49 (2000), 3.833 (1999) Pitcairn Islands New Zealand dollars per US dollar - 1.7229 (2003), 2.162 (2002), 3.776 (2001), 2.1663 (2000), 1.8886 (1999) Poindar New Zealand dollars per US dollar - 3.4785 (2003), 3.5165 (2002), 3.5068 (2001), 3.49 (2000), 3.64 (1999) Poindar New Zealand dolla	orld Factbook Field Listing - Exchange	
2.3788 (2001), 2.2012 (2000), 1.8896 (1999) Niger Communaute Financiere Africaine francs (XOF) per US dollar - 581.2 (2003), 696.988 (2002), 733.039 (2001), 711.976 (2000), 615.699 (1999) Nuterial Communaute Financiere Africaine francs (XOF) per US dollar - 581.2 (2003), 615.699 (1999) Nuterial Communaute Financiere Africaine francs (XOF) per US dollar - 581.2 (2003), 711.976 (2000), 615.699 (1999) Nuterial Communaute Financiere Africaine francs (XOF) per US dollar - 1.7229 (2003), 2.1620 (2002), 2.3776 (2001), 2.1863 (2000), 1.8886 (1999) Nerthern Mariana Last and a collar - 0.1845 (2003), 0.3845 (2002), 0.3845 (2002), 0.3845 (2001), 0.3845 (2001), 0.3845 (2002), 0.3845 (2001), 0.3845 (2001), 0.3845 (2001), 0.3845 (2001), 0.3845 (2001), 0.3845 (2002), 0.3845 (2001), 2.7822 (2000), 2.5708 (1999) Palue the US dollar - 3.5635 (2003), 3.3852 (2002), 3.3887 (2001), 2.7822 (2000), 2.5708 (1999) Palua the US dollar - 3.5635 (2003), 3.3855 (2002), 3.3887 (2001), 2.7822 (2000), 3.3833 (1999) Palua the US dollar - 3.4785 (2003), 3.5165 (2002), 3.5068 (2001), 2.7822 (2000), 3.3833 (1999) Peru nuevo sol per US dollar - 3.4785 (2003), 3.5165 (2002), 2.5068 (2001), 2.3776 (2001), 2.3776 (2001), 2.3776 (2001), 2.1663 (2000), 0.9386 (1999) Pitcairi Islands New Zealand dollars per US dollar - 1.7229 (2003), 2.162 (2002), 2.3776 (2001), 2.3776 (2001), 0.9386 (1999) Pitcairi Islands New Zealand dollars per US dollar - 1.7229 (2003), 1.1175 (2001), 1.0544 (2001), 0.9386		
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Islands the US dollar is used Minos Max of a state	Nonolletting	Alexanism Hollows pare US-dollar - 1, 543 (2, 2002), 1, 9406 (2002), 1, 9520 (2000), 1, 2723 (2000), 1, 5497 (2, 972)
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(2001), 0.3845 (2000), 0.3845 (1999) HKISTAN Palau the US dollar is used HIMANA Salues and Sacolastic (2003), 2012, 12 (2001), 12 (2001), 12 (2001), 12 (2001), 12 (2001), 12 (2001), 12 (2001), 12 (2001), 12 (2001), 12 (2001), 12 (2001), 12 (2001), 12 (2001), 12 (2001), 12 (2001), 2.7822 (2000), 2.5708 (1999) Papua New Guinea kina per US dollar - 3.5635 (2003), 3.8952 (2002), 3.3887 (2001), 2.7822 (2000), 2.5708 (1999) Riraduay) GHaraduay) Image: Salues of per US dollar - 3.4785 (2003), 3.5165 (2002), 3.5068 (2001), 3.49 (2000), 3.3833 (1999) Peru nuevo sol per US dollar - 3.4785 (2003), 3.5165 (2002), 3.5068 (2001), 3.49 (2000), 3.3833 (1999) Philippines Chilippines Pitcairn Islands New Zealand dollars per US dollar - 1.7229 (2003), 2.162 (2002), 2.3776 (2001), 2.3776 (2001), 2.1863 (2000), 1.8886 (1999) Polanduz Silo of the US dollar - 0.886 (2003), 1.0626 (2002), 1.1175 (2001), 1.0854 (2000), 0.9386 (1999) Portugal euros per US dollar - 0.886 (2003), 1.0626 (2002), 1.1175 (2001), 1.0854 (2000), 0.9386 (1999) Puerto Rico Dis US dollar - 3.64 (2003), 3.64 (2002), 3.64 (2001), 3.64	Notway TL	472(INFP: B20743) (2000) 77.49D2 (19924) 417.498 (1993) 77.498 (1993)
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Portugal euros per US dollar - 0.886 (2003), 1.0626 (2002), 1.1175 (2001), 1.0854 (2000), 0.9386 (1999) Puerto Rico ibe US dollaris bised Qatar Qatari ríais per US dollar - 3.64 (2003), 3.64 (2001), 3.64	Pitcairn Islands	2.3776 (2001), 2.1863 (2000), 1.8886 (1999)
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Puerto:Rico: file US dollar is used is an	<u>Portugal</u>	euros per US dollar - 0.886 (2003), 1.0626 (2002), 1.1175 (2001),
Qatari rials per US dollar - 3.64 (2003), 3.64 (2002), 3.64 (2001), 3.64	Puerto Rico	

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aomon	annes mar VS duiltin, 10,336, (2007), 1 diavis (2008), 2 he/h (2008), 3 Thaire (2000), 0 99357(1999), 1
	lei per US dollar - 33,200.1 (2003), 33,055.4 (2002), 29,060.8 (2001), 21,708.7 (2000), 15,332.8 (1999)
R <u>USIA</u> Classical de la companya de la comp Classical de la companya de la compa	Bussian moles per US dollar: 40069202000 p.42120485 (2002): 2016853. (20013: 2012/22/2000): 24160920(2021): 2001 p.42120485 (2002): 2016853. and 2016 postci vantary 1998 cubiests equation of bollo optimatical sectors. Emotory 1998 problems is a sector of bollo optimatical sectors.
<u>Rwanda</u>	Rwandan francs per US dollar - 537.658 (2003), 476.327 (2002), 442.801 (2001), 389.696 (2000), 333.942 (1999)
sami talenti	SEIDERTEINIAN DOUNDS DER USSICHER, DER SIN (2002) ON SERVICE OD DER SIS DES GAZ DOON OF GIBBORT 1995), FOR OLEVATION OF SISTER SIZE AND SIZE AND SIZE AND SIZE AND SIZE AND SIZE AND SI
<u>Saint Kitts and</u> Nevis	East Caribbean dollars per US dollar - 2.7 (2003), 2.7 (2002), 2.7 (2001), 2.7 (2000), 2.7 (1999)
SETTIC LUIBEL	Fact: Cathbulan indilars bandstidbilar. 277 (2003) 277 (2002) 277
<u>Saint Pierre and</u> <u>Miguelon</u>	euros per US dollar - 0.886 (2003), 1.0626 (2002), 1.0626 (2001), 1.08540 (2000), 0.93863 (1999)
Serific Vincenzenie ine Grandines	Hesse Settiopeeningilaisi per usidollar = 2.7 (2005), 2.7 (2002), 2.7 (2007), 2.7 (2007), 2.7 (2007), 2.7 (2007)
<u>Samoa</u>	tala per US dollar - 2.9732 (2003), 3.3763 (2002), 3.478 (2001), 3.2864 (2000), 3.0132 (1999)
<u>Sin itrilo</u>	annos ner USradilay - (1886) (200. http:///2002.cl//200
Sao Tome and Principe	dobras per US dollar - 9,347.58 (2003), 9,088.32 (2002), 8,842.11 (2001), 7,978.17 (2000), 7,118.96 (1999)
<u>Saudi/Arabia</u>	sang) myaisipar US dollar. 20 245 (2005), 212 15 (2007), 212 15 (2007), 2 17 245 (2000), 21725 (2992)
<u>Senegal</u>	Communaute Financiere Africaine francs (XOF) per US dollar - 581.2 (2003), 696.988 (2002), 733.039 (2001), 711.976 (2000), 615.699 (1999)
Sanberand Montematico	(KOD), 26-2021, 26-2021, 2021, 2021, 2021, 2021, 2021, 2021, 2021, 2021, 2021, 2021, 2021, 2021, 2021, 2021, 20
Seychelles	Seychelles rupees per US dollar - 5.4007 (2003), 5.48 (2002), 5.8575 (2001), 5.7138 (2000), 5.3426 (1999)
Sterralizane	annas mar US mollans 32, 217474, 22000), 27,022,032,2002), 1, 9851,545, 57 (2011), 2 00241, (2000), 1400(419, 61-199)
Singapore	Singapore dollars per US dollar - 1.7422 (2003), 1.7906 (2002), 1.7917 (2001), 1.724 (2000), 1.695 (1999)
<u>Slovata</u>	kontry, the US collary 36-77/29 (2003) - 65-87-67 (2002) - 48 35-81 - 57 1990 (1991) - 65-52 (2000) / 41 - 36-28 (1999) - 57 - 57 - 57 - 57 - 57 - 57 - 57 - 5
<u>Slovenia</u>	tolars per US dollar - 207.099 (2003), 240.248 (2002), 242.749 (2001), 222.656 (2000), 181.769 (1999)
Solomontustandes,	Solorium Elentes dollats del use foller. NA (2003), e 7008 (2002), 533 S 233 (2004), sobject conditiv, e mich (2004)

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<u>Somalia</u>	Somall shillings per US dollar - 11,000 (November 2000), 2,620 (January 1999), 7,500 (November 1997 est.), 7,000 (January 1996 est.), 5,000 (1 January 1995) note: the Republic of Somaliland, a self-declared independent country not recognized by any foreign government, issues its own currency, the Somaliland shilling	
STRICT PROFESSION		
<u>Spain</u>	euros per US dollar - 0.886 (2003), 1.0626 (2002), 1.1175 (2001), 1.0854 (2000), 0.9386 (1999)	
Sudan	Sudanese dinars per US dollar - 260.983 (2003), 263.306 (2002), 258.702 (2001), 257.122 (2000), 252.55 (1999)	
के सेने सोन्स् सेने के सिंह के सिंह के सिंह के	a providence and the and the animal states of the Dirac States and the States of the S	
	ितिहर्त्ताः देशे इतिहर्त्तः स्वरणा गाँभ्यः इत्यात्वतात् । याप्य तद्वारं तद्वारं स्वर्थने भाषां भेषति द्वारस्वति ते स्वरूत १८ - द्वार्य्यतात् पुर्वतं प्रत्यात् द्वार्य्यात्वत्तात् । त्याप्य त्यार्थ्यता त्याप्रे स्वर्थने स्वर्धने विद्य वित्युपी गाँ जित्तन्त्वापुर्वं स्वतित्तः त्याप्रधः व्याप्यत्ति क्रियत् विद्याप्र स्वर्थने स्वर्धने विद्याप्रिय इत्युपी गाँ जित्तन्त्वापुर्वं स्वतित्तः त्याप्रधः व्याप्यत्ति द्वार्य्यस्य प्रत्यत्त्वाप्रियत् स्वर्थने विद्याप्य इत्युप्ते न्द्रार्य्याप्र व्याप्रियः इत्युप्त्यं द्वार्य्यत्त्यात् स्वर्थन्त्याः प्रत्यत्त्वार्थम् विद्याप्राध	
Svalbard	Norwegian kroner per US dollar - 7.0802 (2003), 7.9838 (2002), 8.9917 (2001), 8.8018 (2000), 7.7992 (1999)	
agadang		
Sweden	Swedish kronor per US dollar - 8.0853 (2003), 9.7371 (2002), 10.3291 (2001), 9.1622 (2000), 8.2624 (1999)	
	and set the set of the	
<u>Syria</u>	Sγrian pounds per US dollar - (Official rate): 11.225 (2003), 11.225 (2002), 11.225 (2001), 11.225 (2000), 11.225 (1999), (Free market rate): 49.65 (2001), 49.4 (2000), 51.7 (1999)	
GUNGA		
<u>Tajlkistan</u>	Tajikistani somoni per US dollar - 3.0614 (2003), 2.7641 (2002), 2.3722 (2001), 2.0763 (2000), 1.2378 (1999) note: the new unit of exchange was introduced on 30 October 2000, with one somoni equal to 1,000 of the old Tajikistani rubles	
HITER DE	The second se	
Thailand	baht per US dollar - 41.4846 (2003), 42.9601 (2002), 44.4319 (2001), 40.1118 (2000), 37.8137 (1999)	
<u>7</u> 0610	(anna dimute Andrea Adreade e march (2011) and (1011) (2011) (2012) (2012) - Enders (2012) - Steva and Obstan (2011) (2011) (2011) (2012) - (1920) - Steva (2012) - Steva (2012) (2011) (2011) (2011) (2012)	
<u>Tokelau</u>	New Zealand dollars per US dollar - 1.7229 (2003), 2.154 (2002), 2.3776 (2001), 2.1863 (2000), 1.8886 (1999)	
(ចមារ័ញ	a vite and the state of the court.	

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Trinidad and Tobago	Trinidad and Tobago dollars per US dollar - 6.2929 (2003), 6.2487	- ²
	(2002), 6.2332 (2001), 6.2998 (2000), 6.2989 (1999)	
<u>riunisia</u> a sea ara ara ara ara ara ara ara ara ara a	7001100101435267285100143106270192012002041721772200204148897 ++ (2001019182074200001431662701920102041472177220120414	
<u>Turkey</u>	Turkish Iiras per US dollar - NA (2003), 1,507,230 (2002), 1,225,590 (2001), 625,218 (2000), 418,783 (1999), 151,865 (1997)	
uu <u>kmenistan</u>	Figurean manhais and US dallars (S.200) (2009), 2001 2002/55 200	
	nos nos conscionante esperante a futural al construction de la	
<u>Turks and Caicos</u> Islands	the US dollar is used	
	Stovallian dellate optivitation dellats des Usualians (Esperando) (2003). SS - Stodator 20020 (20020) (20020) (2003) (2003) (2000) (20020) (20000) (20020)	
<u>Uganda</u>	Ugandan shillings per US dollar - 1,963.72 (2003), 1,797.55 (2002), 1,755.66 (2001), 1,644.48 (2000), 1,454.83 (1999)	
Ukane.	1047/015/05-00160-75-0527/(2005)), 55:2705-220(12): 55:57227/200105-0 55:11020,70(50), 11:00-10:090(12): 55:5705-220(12): 55:57227/200105-0	
<u>United Arab</u> Emirates	Emirati dirhams per US dollar - 3.67 (2003), 3.6725 (2002), 3.6725 (2001), 3.6725 (2000), 3.6725 (1999)	
<u>United Kincdom</u>	Bruth noun-SuperUS (biltr - 0-5) //h (2303), 9 (522) (2002), (15042) (1 (230)) (0.550) (200()) (1.513) (1099)	
<u>United States</u>	British pounds per US dollar - 0.6139 (2003), 0.6661 (2002), 0.6944 (2001), 0.6596 (2000), 0.6180 (1999), Canadian dollars per US dollar - 1.4045 (2003), 1.5693 (2002), 1.5488 (2001), 1.4851 (2000), 1.4857 (1999), Japanese yen per US dollar - 116.08 (2003), 125.39 (2002), 121.53 (2001), 107.77 (2000), 113.91 (1999), euros per US dollar - 0.8866 (2003), 1.0626 (2002), 1.1175 (2001), 1.08540 (2000), 0.93863 (1999)	
<u>Umpuay</u>	Undersey an resolved abilities (35,209), (2001), 24,257 (2004), (2004), (2005)	
<u>Uzbekistan</u>	Uzbekistani sums per US dollar - 115.9 (2003), 125.3 (2002), NA (2001), 236.608 (2000), 124.625 (1999)	
Y <u>enuato</u> s	ayada par US John A. 222, 1899 (2003), 1897 1985 (2002)), 1715 3177 (2001)). 2187 (3181 (2000)), 1723 (275 (2020))	
<u>Venezuela</u>	bolivares per US dollar - 1,607.79 (2003), 1,160.95 (2002), 723.666 (2001), 679.96 (2000), 605.717 (1999)	
Weineme Antonio	20079-per 05-collar - 15727255 (2005)) 15-229) 55 (2002) 214 7269204555 (2005) 014 7769204555 (2005) 25 (2005) 25 (2005) 25 (2005) 25 (2005)	
<u>Virgin Islands</u>	the US dollar is used	
Wallisend Futura	Comptoins transals diff Paginate transs (XPF) per USMolfar (100) 8, See 925050 (2572) (2002) and 5 A5 (2001) 9 (2012) (2000) 101 COB (2000) 5 100 (256) (2580)	
West Bank	new Israeli shekels per US dollar - 4.5541 (2003), 4.7378 (2002), 4.2057 (2001), 4.0773 (2000), 4.1397 (1999); Jordanian dinars per US dollar - fixed rate of 0.7090 (from 1996)	

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	and the tend of the		
	Yemen	Yemeni rials per US dollar - NA (2003), 175.625 (2002), 168.672	
		(2001), 161.718 (2000), 155.718 (1999)	
	<u>Zimbabwe</u>	Zimbabwean dollars per US dollar - NA (2003), 55.0358 (2002), 55.0521 (2001), 44.4179 (2000), 38.3012 (1999); note - these are official exchange rates, non-official rates vary significantly	
		This page was last updated on 5 October, 2004	
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Attachment 6

SUMMARY OUTPUT, 55 Countries

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itatistics	0.9549	0.9118	0.9101	1.7788	55
Regression Statistics	Multiple R	R Square	Adjusted R Square	Standard Error	Observations

ANOVA

				-				
	đţ	SS	SW	u.	Significance F			
Regression	*-	1733.0649	1733.06	1733.06 547.723	1.30E-29	•		
Residual	53	167.6987	3.16					
Total	54	1900.7636					-	
للبيس والتناب المراجع والمتعادية و								
	Coefficients	Standard Fror	+ Stat	P-valua	P-value I ower 95%		Inner 95% / nwer 95 0% //	F

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.36199	0.329653	1.098	0.277	-0.299	1.023		
X Variable 1	0.000504	0.000022	23.403	0.000	0.000	0.001	0.000	0.001

SUMMARY OUTPUT, 77 Countries

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Statistics	0.94198	0.88732	0.88582	2.00321	4	
Regression Statistics	Multiple R	R Square	Adjusted R Square	Standard Error	Observations	

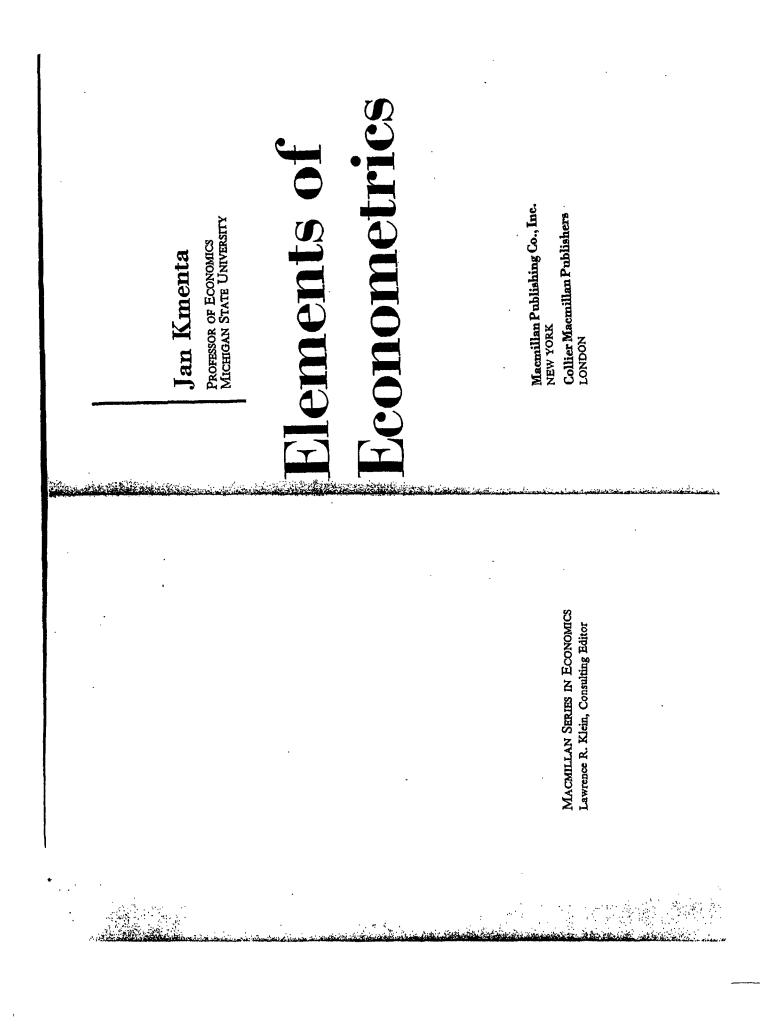
ANOVA

	đf	SS	· SW	u,	Significance F			
Regression Residual	1 75	2369.9423 300.9639	2369.942 590.5881 4.012851	590.5881	2.70893E-37			
Total	76	2670.9061				·		
	Coefficients	Standard Error	f Stat	P-value	Lower 95%	Upper 95%	lpper 95% Lawer 95.0% Upper 95.0%	Upper 95.0%
Intercept	0.044730	0.299901	0.14915	0.88184	-0.55270	0.64216	-0.5527	0.6422
X Variable 1	0.0005331	0.000022	24.30202	0.00000	0.00049	0.00058	0.0005	0.0006

Attachment 7

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ESTIMATION WITH DEFICIENT DATA [Ch. 9

pairs of observations. This can be done by substituting $\hat{\xi}_i$ for the missing values of X in (9.46a). The result is

(9.48) Est.
$$\left[\frac{\operatorname{Var}(\beta_n)}{\operatorname{Var}(\beta_n)}\right] = 1 + \frac{\sum_{n=1}^{\infty} \langle \hat{\xi}_1 - \hat{\xi} \rangle^2 + \langle n_n m_n / n \rangle \langle X_n - \hat{\xi} \rangle^2}{\sum_n \langle X_1 - X_n \rangle^2}$$

maximum likelihood estimators, provided the number of missing values of X The estimator ξ_i has the desirable asymptotic properties possessed by other does not grow with sample size. EXAMPLE In the example in Section 7-3, we were concerned with estimating the coefficients of a linear relation between price (X) and quantity or oranges sold (Y)in a given supermarket over twelve consecutive days. The observations were:

The results of the relevant calculations were as follows:

$$X = 70,$$
$$\sum (X_i - \overline{X})^3 = 2250,$$

å = 210.460, $\beta = -1.578.$

formation that the quantity sold on the thirteenth day was 37 pounds but that no Suppose now that, in addition to the 12 pairs of observations, we also had the inprice has been reported. That is, Y₁₃ = 37. This observation has been discarded. We wish to know how much efficiency we would have gained in estimating β if χ_{13} had been known. First, we use (9.47) to estimate X_{13} as

$$k_{13} = \frac{Y_{13} - \hat{\alpha}}{\hat{\beta}} = \frac{37 - 210.460}{-1.578} = 11$$

ċ

Then, the estimated ratio of $\operatorname{Var}(\beta_n)$ to $\operatorname{Var}(\beta_n)$ is

$$1 + \frac{0 + [(12 \times 1)/13](70 - 110)^{3}}{2250} = 1.6564$$

which means that the loss of efficiency is estimated to be 65.64%.

mations are obtained by c.g., interpotentiated interpotentiated with X. However, if we replace the missing values of X with some approximations, we introduce errors mations are obtained by, e.g., interpolation from the observed values of X, or \mathbb{R}^{n} of observations is to fill in the gaps by using some approximations of the missing $rac{1}{2}$ An alternative way of using the information contained in the incomplete pairs values of X. This approach is probably fairly common in practice. The approxi-

Sec. 9–3) Estimation When Some Observations Are Missing

quence, obtain inconsistent estimates of the regression coefficients. This was of measurement into the values of the explanatory variable and, as a conseexplained in detail in Section 9–1. How serious this inconsistency will be depends, of course, on the extent of the errors of approximation. In fact, what is being done in this case is giving up consistency in the hope of reducing the variance of the estimator. If we are reasonably certain that the errors of approximation are small while the gain in efficiency is potentially large, this may be a rational procedure. Otherwise, the trade may result in a loss.

Stochastic Explanatory Variable

Let us now turn to the case where X is a stochastic variable that is distributed independently of the disturbance. The formulas for the least squares estimators of the regression coefficients based on complete pairs of observations remain unchanged, and so do the formulas for their variances—except that the latter Each pair of the observed values of X and Y now comes from a bivariate probahave to be interpreted as conditional upon the given set of available values of X. bility distribution. Our problem is to estimate the regression coefficients when some of the pairs of observations are incomplete. Other than disregarding the incomplete pairs, we may try to fill in the gaps and then apply the least squares estimation. One way of filling the gaps is to ask which value of X, or of Y, would one expect to observe before making the observation. Commonly, this would be the mathematical expectation of X or of X, i.e., their means. Since the means are unknown, we can use the available sample means as estimators. That is, we may complete the missing observations in the incomplete pairs by using the available sample means of the respective variables. The least squares estimators of lpha and etaobtained from the sample completed in this way are called zero order regression estimators." They are defined as follows:

(9.49)
$$\beta_{0} = \frac{\sum_{x} (X_{i} - X_{x})(Y_{i} - Y_{x}) + \sum_{0x} (X_{x} - X_{x})(Y_{i} - Y_{x})}{\sum_{x} (X_{i} - X_{x})^{2} + \sum_{0x} (X_{x} - X_{x})^{2} + \sum_{0x} (X_{i} - X_{x})^{2}}{\sum_{x} (X_{i} - X_{x})^{2} + \sum_{0x} (X_{i} - X_{x})^{2} + \sum_{0x} (X_{i} - X_{x})^{2}}{\sum_{x} (X_{i} - X_{x})^{2} + \sum_{0x} (X_{i} - X_{x})^{2} + \sum_{0x} (X_{i} - X_{x})^{2}}$$
and
$$\frac{\sum_{x} (X_{i} - X_{x})^{2}}{\sum_{x} (X_{i} - X_{x})^{2}}$$

$$\frac{\sum_{x} (X_{i} - X_{x})^{2}}{\sum_{x} (X_{i} - X_{x})^{2}}$$

⁷ See A. A. Afff and R. M. Elashoff, "Missing Observations in Muuvement Polat Estimation in Simple Linear Regression," Journal of the American Statistical Associa-tion, Vol. 62, Match 1967, pp. 10-29.

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Sec. 9-5] Estimation When Some Observations Are Missing 36: 9-5] Estimation When Some Observations Are Missing 343 so that, unless $Z_o = Z_o$, β_o is still biased. Alternatively, suppose that the values of Y are all available but some of the X's are missing. Then,	$\begin{split} n_{\sigma} = n, \\ n_{\sigma} = 0, \\ \mathcal{R}_{\sigma} = \mathcal{R}_{\sigma}, \\ \mathcal{R}_{\sigma} = \mathcal{R}$	
342 ESTIMATION WITH DEFICIENT DATA [Ch. 9 In order to see whether these estimators are unbiased, we substitute $Y_i - \overline{Y}_y = \beta(X_i - \overline{X}_y) + (s_i - \overline{z}_y)$	into (9.49) to get $\begin{aligned} & \sum_{\beta_0} (x_i - X_n) [g(x_i - X_n) + (e_i - x_n)] \\ & F_0 = \sum_{j=1}^{n} (x_i - X_n) [g(x_i - X_n) + (e_i - x_n)] \\ & F_0 = \sum_{j=1}^{n} (x_i - X_n) F_0 = \sum_{j=1}^{n} (x_i - X_n) F_0 + \sum_{j=1}^{n} (x_j - X_n) F_0 + \sum_{j=1}^$	

Exercise either one of the former methods may be preferable to estimation from complete pairs only.	EXERCISES 9-1. Assuming the "errors-in-variables" model, estimate the relationship between $\log(Y/PL)$ and $\log(W/P)$ from the data for the furniture industry given in Table 9-1. Use the weighted regression method with $\lambda = 2$. 9-2. Suppose the income classes given in Table 9-7 in the text are combined as	follows: Income Class Number of Observations (rs) Under 18 51 18 and under 22 44	26 and under 20 36 26 and under 30 26 30 and under 34 16 34 and over 8	Calculate the appropriate values of X_s and Y_s and use these to estimate the coefficients of $Y = \alpha + \beta X + s$ and their standard errors. Compare your results with those based on the information as originally given in Table 9-2.	9.4. Provide a derivation of formula (9-47). 9.4. Consider the following observations on X (price of oranges) and Y (quantity of oranges sold): $\begin{array}{cccccccccccccccccccccccccccccccccccc$
344 ESTIMATION WITH DEFICIENT DATA (CL. 9 The estimators of ξ and η , which are of only incidental interest, are $\xi = \frac{Y_{0x} - \hat{\alpha}_m}{\beta_m}$	and $\hat{\gamma} = \hat{\alpha}_n + \beta_n X_{ov}$. Let us examine $\hat{\alpha}_n$ and $\hat{\beta}_n$ for unbiasedness. For $\hat{\beta}_n$ we have $\beta \sum (X_i - X_c)^2 + \sum (X_i - X_c)(e_i - \overline{e}_c)$	mathen	This means that the modified zero order regression estimator of β is, in general, biased. The same is true of the modified zero order regression estimator of α . Again, let us examine some special cases. First, suppose that all of the values Again, let us examine some special cases. First, suppose that all of the values	of X are available and only some of the Y's are mustup. In the means that we do show that formulas (9.51) and (9.52) remain the same, which means that we do not get any further ahead. Suppose, on the other hand, that all of the values of Y are available and only some of the X's are missing. In this case formulas (9.51) are available and only some of the X's are missing. In this case formulas (9.51) and (9.52) become the same as (9.42) and (9.43). This means that the estimators and (9.52) become the same as (9.42) and (9.43). This means that the estimators ε_m and β_m are exactly equal to the ordinary least squares estimators based on ε_m and β_m are observations only.	Summary To sum up, when we deal with samples in which some pairs is of relatively are incomplete, the information contained in the incomplete pairs is of relatively fittle use when estimating the regression coefficients. When X is nonstochastic, fittle use when estimating the regression coefficients. When X is nonstochastic, fittle use when estimated in the pairs for which only the Y's are given suables the information contained in the pairs for which only the Y's are given suables attempting. If this loss is substantial, it may be worthwhile to go to the trouble of are missing. If this loss is substantial, it may be worthwhile to go to the trouble of attempting to recover the missing values of X, or to find some good approxima- attempting to recover the missing values of X, or to find some good approxima- attempting to recover the missing values of X, or no find some good approxima- tions for them. When X is stochastic and we use either the zero order regression there or its modified version, we get estimators that are generally biased. If method or its modified version, we get estimators that are generally biased. If nethod or its modified version, we get estimators that are generally biased. If nethod or its modified version, we get estimators that are generally biased. If nethod or its modified version we get estimators that are general but these will be no more efficient than the ordinary least but these will be no more efficient than the ordinary least spuares estimators obtained by the zero order regression method or its modi- regression coefficients obtained by the zero order regression method or its modi- regression coefficients obtained by the zero order regression method or its modi- squares estimators based on complete pairs. Thus, under certain circumstances aquares estimators based on complete pairs. Thus, under certain circumstances aquares estimators based on complete pairs. Thus, under certain circumstances are approximation of this statement, see bld.

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2002 INCOME DATA - EXPECTED WAGES OF SELECTED NON-MARKET ECON ... Page 1 of 9

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page updated: October 6, 2004

E-MAIL WEBMASTER

EXPECTED WAGES OF SELECTED NON-MARKET ECONOMY COUNTRIES 2002 INCOME DATA

Revised September 2004

Index of Tables

EXPECTED 2002 WAGES OF SELECTED NME COUNTRIES CALCULATION OF 2002 WAGES PER HOUR IN US DOLLARS CPI INFLATORS EXCHANGE RATES WAGES AND GNI PER CAPITA IN US DOLLARS NANUFACTURING WAGES AND GNI PER CAPITA (graph) NOTES

EXPECTED 2002 WAGES OF SELECTED NME COUNTRIES

Country	2002 GNI per Capita, US \$	Expected 2002 Wages, US\$ per Hour
Armenia	\$790	\$0.86
Azerbaijan	\$710	\$0.82
Belarus	\$1,360	\$1.11
Estonia	\$4,190	\$2.34
Georgia	\$650	\$0.80
Kazakhstan	\$1,520	\$1.18
Kyrgyz Republic	\$290	\$0.64
Lithuania	\$3,870	\$2.12
Moldova	\$460	\$0.71
People's Republic of China	\$960	\$0.93
Romania	\$1,870	\$1.33
Russian Federation	\$2,130	\$1.44
Tajikistan	\$180	\$0.59
Turkmenistan	\$950	\$0.93
Ukraine	\$780	\$0.85
Uzbekistan	\$310	\$0.65
Vietnam	\$43(\$0.70

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2002 INCOME DATA - EXPECTED WAGES OF SELECTED NON-MARKET ECON ... Page 2 of 9

Wage Rate = (GNP per Capita * X Coefficient) + Constant

CALCULATION OF 2002 WAGES PER HOUR IN US DOLLARS

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Country	Reported Measuring Wage Rate Currency	Measuring Unit	Hours per Measuring Unit	Hourly R Wages	leporting Inflator Year to 2002	in H M
Algeria	12,323.00 Dinars	month	192	64.18	1996 1.1912	
Argentina	4.29 Pesos	hour	1	4.29	2001 1.0000	
Australia	20.45 Dollars	hour	1	20.45	2002 1.0000	
Austria	2,046.00 Euros	month	192	10.66	2001 1.0000	
Belgium	11.00 Euros	hour	1	11.00	1999 1.0508	
Bolivia	1,120.00 Bolivianos	month	192	5.83	2000 1.0160	
Botswana	889.00 Pula	month	192	4.63	2002 1.0000	
Brazil	901.85 Reals	month	192	4.70	2002 1.0000	
Bulgaria	244.00 Lev	month	192	1.27	2002 1.0000	
Canada	19.10 Dollars	hour	1	19.10	2002 1.0000	
Chile	218,740.00 Pesos	month	192	1,139.27	2002 1.0000	
Colombia	353,590.00 Pesos	month	192	1,841.61	2002 1.0000	
Costa Rica	128,207.00 Colones	month	192	667,74	2001 1.0000	
Croatia	4,794.00 Kunas	month	192	24.97	2002 1.0000	
Ecuador	1.27 Dollars (US	3) hour	1	1.27	2001 1.0000	
Egypt	136.00 Pounds	week	44	3.09	2001 1.0000	
El Salvador	9.29 Colones	hour	1	9.29	2001 1.0000	
Finland	10.68 Euros	hour	1	10.66	2002 1.0000	
France	1,563.00 Euros	month	192	8.14		
Germany	14.72 Euros	hour	1	14.72		
Greece	1,539.76 Drachmas		1	1,539.76		
Guatemala	1,655.25 Quetzales	month	192	8.62		
India	1,280.80 Rupees	month	192	6.67		
Ireland	12.29 Euros	hour	1	12.29		
Israel	9,051.00 New Shek	els month	192	47.14		
Japan	296,400.00 Yen	month	192	1,543.78	5 2002 1.0000)
Jordan	185.00 Dinars	month	192	0.96	2001 1.0000)
Kenya	5,510.80 Shillings	month	192	28.70) 1997 1.3124	۲
Korea	1,857,000.00 Won	month	192	9,671.8	8 2002 1.0000)
Malaysia	1,531.00 Ringgit	month	192	7.9	7 2001 1.0000)
Mauritius	6,155.00 Rupees	month	192	32.0	6 2002 1.0000	3
Mexico	25.09 Pesos	hour	1	25.0	9 2002 1,000	0
Netherlands	15.62 Euros	hour	1	15.6	2 2000 1.045	3
New Zealand	18.00 Dollars	.hour	1	18.0	0 2002 1.000	0
Nicaragua	13.46 Cordobas	s hour	192	2 0.0		
Norway	25,991.00 Kroner	month	192	2 135.3		
Pakistan	2,980.97 Rupses	month	192			
Panama	1.80 Balboas	hour		1 1.8		

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2002 INCOME DATA - EXPECTED WAGES OF SELECTED NON-MARKET ECON ... Page 3 of 9

Paraguay	739,738.00	Guaranies	month	192	3,852.80	2002	1.0000
Peru	28.07	Nuevos Soles	day	8	3.51	2002	1.0000
Philippines	7,300.00	Pesos	month	192	38.02	2000	1.0612
Poland	1,970.09	New Zlotys	month	192	10.26	2002	1.0000
Singapore	3,154.00	Dollars	month	192	16.43	2002	1.0000
Slovenia	196,220.00	Tolars	month	192	1,021.98	2002	1.0000
South Africa	4,695.00	Rand	month	192	24.45	2001	1.0000
Spain	9.47	Euro	hour	1	9.47	2002	1.0000
Sri Lanka	31.93	Rupees	hour	1	31.93	2002	1.0000
Sweden	118.20	Kronor	hour	1	118.20	2002	1.0000
Switzerland	5,862.00	Francs	month	192	30.53	2000	1.0099
Thailand	6,064.60) Bahl	month	192	31.59	2001	1.0000
Trinidad and Tobago	1,161.1	Dollars	week	44	26.39	2001	1.0000
Turkey	2,162,800.0) Liras	hour	1	2,162,800.00	2000	1.5440 3,33
United Kingdom	11.0	2 Pounds	hour	1	11.02	2002	1.0000
United States	15.3	l) Dollars	hour	1	15.30	2002	1.0000
Zimbabwe	80.1	5 Dollars	hour	1	80.15	2001	1.0000

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CPI INFLATORS

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Country	1994	1995	1996	1997	1998	1999	2000	2001	2002
Algeria	56.8 09	73,726	87.497	92.514	97.093	99.662	100	104.226	105.704
Argentina	97.235	100,518	100.674	101.205	102.137	100.945	100	98.933	124.526
Australia	86.896	90.927	93.302	93.536	94.334	95.717	100	104.381	107.516
Austria	91.254	93.307	95.0269	96.286	97.157	97.704	100	102.66	104.518
Belgium	90.771	92.102	93.9984	95.528	96.44	97.519	100	102.474	104.157
Bolivia	66.997	73.825	83.001	86.91	93.579	95.601	100	101.596	102.534
Botswana	60.576	66.944	73.6942	80.12	85.457	92.08	100	106.559	115.119
Brazil	42.016	69.749	80.74	86.332	89.091	93.42	100	106.84	115.866
Bulgaria	1.79	2.901	6.429	74.47	88.375	90.649	100	107.361	113.599
Canada	89.839	91.7866	93.233	9 4.745	95.68	97.327	100	102.532	104.837
Chile	71.889	77.809	83.534	88.659	93.188	96.2.99	100	103.569	106.147
Colombia	40.391	48.857	58.7451	69.587	82.579	91.557	100	107.968	114.822
Costa Rica	44.725	55.096	64.751	73.318	81.871	90.096	3 100	111.227	121.418
Croatia	76.41	79.428	82.844	86.299	91.819	94.996	3 100	104.766	106.547
Ecuador	12.326	15.1473	18.839	24.612	33.497	7 50.996	3 100	137.676	154.866
Egypt	69.867	80.8661	86.678	3 90.6874	94.47	7 97.380	6 100	102.22	7 105.069
El Salvador	75.154	82.691	90.786	94.862	2 97.27	B 97.77	9 100	103.75	105.686
Finland	91.725	92.6289	93.2	2 94.314	4 95.63	3 96.74	2 100) 102.56	8 104.183
France	92.505	5 94.1	5 96.04	1 97.194	4 97.847	4 98.33	7 10) 101.66	3 103.62
Germany	92.342	2 93.93	3 95.29	2 97.08	3 97,99	2 98.5	5 10) 101.97	5 103.375
Greece	80.7262	2 87.94	1 95.148	6 90.19	2 94.48	8 96.94	7 10	0 103.36	1 107.095

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Guatemala	63. 96 3	69.343	77.01	84.121	89.983	94.36	100 -	107.634	116.276	
India	63.02	69.463	75.699	81.122	91.856	98.145	100	103.685	108.239	
Ireland	86.031	88.199	89.736	90.993	93.204	94.729	100	104.872	109.768	
Israel	66.789	73.498	81.783	89.145	93.985	98.872	100	101.1	106.8	
Japan	98. 6 42	98.517	98.65	100.358	101.017	100.675	100	99.267	98.358	
Jordan	85.273	87.28	92.954	95.7778	98.739	99.338	100	101.788	103.644	
Kenya	65.443	66.46	72.351	80.5718	85.988	90.926	100	105.739	107.812	
Korea	78.8	82.3	86.4	90.2	97	97.8	100	104.1	106.9	
Malaysia	82.8482	85.707	88.697	91.059	95.858	98.489	100	101.417	103.25	
Mauritius	69.633	73.831	78.668	84.0437	89.768	95.97	100	105.389	112.472	
Mexico	30.88	41.687	56.018	67.573	78.336	91.328	100	106.363	111.714	
Netherlands	87.944	89.7868	91.598	93.573	95.428	97.538	100	104.534	108.159	
New Zealand	89.7155	93.071	95.21	96.329	97.569	97.447	100	102.626	105.373	
Nicaragua	52.7252	58.491	65.287	71,31	80.607	89.649	100	107.358	111.645	
Norway	87.108	89.248	90.371	9 2.704	94.7946	9 7.006	100	103.017	104.344	
Pakistan	62.714	70.456	77.764	86.611	92.005	95.816	100	103.148	106.542	
Panama	93.391	94.3 19	95.504	96.769	97.31		100	100.307	101.316	
Paraguay	57.849	65.599	72.031	77.065	85.954	91.757	100	107.268	118.54	
Peru	64.544	71.726	80.002			96,379	100	101.977	7 102.173	
Philippines	65.66	70.918	77.32				100	106.123	3 109.242	
Poland	42.888		65.812						3 107.491	
Singapore	94.022		96.962		98.6402				7 100.602	
Stovenia	59.4027		74				100			
South Africa	66.647		77.7593		5 90.2551				2 115.388	
Spain	83.951					• • • • • • •			1 106.768	
Sri Lanka	60.138								8 125.062	
Sweden	95.399							0 102.41		
Switzerland	94.66								8 101.636	
Thailand		81.2551							51 102.275	
Trinidad and Tobago				•			-		37 109.905	
Turkey	3.3654								.4 223.825	
United Kingdom	84.66								21 103.485	
United States	86.077						3 10	0 102.82	26 104.457	
Zimbabwe	17.37	1 21.29	5 25.8	6 30.70	5 40.47	64.1	6 10	0 176.7	15 424.256	

EXCHANGE RATES	
Country	2002
Algeria	79.723
Argentina	3.32
Australia	1.76

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-2002 INCOME DATA - EXPECTED WAGES OF SELECTED NON-MARKET ECON ... Page 5 of 9 -----

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Austria	0.054
Belgium	0.954
Bolivia	0.954
Botswana	7.49
Brazil	5.46
Bulgaria	3.53
Canada	1.885
Chile	1.58
Colombia	712.38
Costa Rica	2864.79
Croatia	378.72
Ecuador	7.146
Egypt	1^
El Salvador	4.5
Finland	8.75
France	0.954
Germany	0.954
Greece	0.954
Guatemala	325.124 *
India	7.807
Ireland	48.03
İsrael	0.954 4.73
Japan	119.9
Jordan	0.709
Kenya	77.072
Korea	1186.2
Malaysia	3.8
Mauritius	29.197
Mexico	13.313
Netherlands	0.954
New Zealand	1.899
Nicaragua	14.67
Norway	6.966
Pakistan	58.534
Panama	1
Paraguay	7103.59
Peru	3.514
Philippines	53.096
Poland	3.839
Singapore	1.737
Slovenia	221.071
South Africa	8.64
Spain	0.954
Sri Lanka	96.725
Sweden	
	8.825

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2002-INCOME DATA - EXPECTED WAGES OF SELECTED NON-MARKET ECON ... Page 6 of 9

Switzerland	1.387
Thailand	43.152
Trinidad and Tobago	6.3
Turkey	1643700
United Kingdom	0.62
United States	. 1
Zimbabwe	55.036
NOTES:	
* 1 Euro = 340.750 Drachmas, as of Jan. 17, 2000	

^A Ecuador's monthly wage was listed in U.S. dollars per month (entered "1" in table above)

Country	Exp 2002 GNI per Capita, US\$	pected 2002 Wages, US\$ per Hour
Algeria	1720	0.96
Argentina	4220	1.29
Australia	19530	11.62
Austria	23860	11.17
Belgium	22940	12.12
Bolivia	900	0.79
Botswana	3010	0.85
Brazil	2830	1.33
Bulgaria	1770	0.67
Canada	22390	12.09
Chile	4250	1.60
Colombia	1820	0.64
Costa Rica	4070	1.76
Croatia	4540	3.49
Ecuador	1490	1.27
Egypt	1470	0.69
El Salvador	2110	1.06
Finland	23890	11.17
France	22240	8.53
Germany	22740	15.43
Greece	11660	5.18
Guatemala	1760	1.19
India	470	0.14
ireland	23030	12.88
Israel	16020	9.97
Japan	34010	12.88
Jordan	1760	1.36
Кепуа	360	0.49
Korea	9930	8.15
Malaysia	3540	2.10

WAGES AND GNI PER CAPITA IN US DOLLARS

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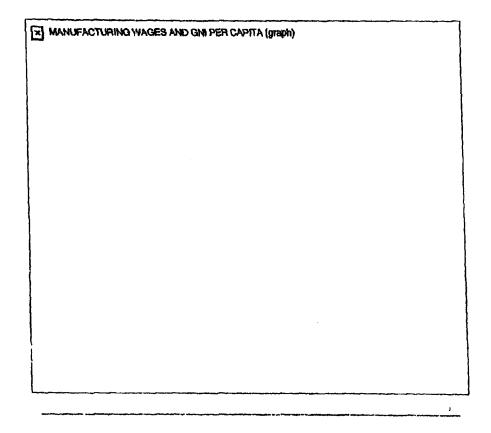
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Mauritius	3860	1.10
Mexico	5920	1.88
Netherlands	23390	17.11
New Zealand	13260	9.48
Nicaragua	710	0.00
Norway	38730	19.43
Pakistan	420	0.27
Panama	4020	1.80
Paraguay	1170	0.54
Peru	2020	1.00
Philippines	1030	0.78
Polend	4570	2.67
Singapore	20690	9.46
Siovenia	10370	4.62
South Africa	2500	2.83
Spain	14580	9.93
Sri Lanka	850	0.33
Sweden	25970	13.39
Switzerland	36170	22.23
Thalland	2000	0.73
Trinidad and Tobago	6750	4.19
Turkey	2490	2,03
United Kingdom	25510	17.77
United States	35400	15.30
Zimbabwe	735	* 1.48

NOTES:

* GNI per capita for Zimbabwe was estimated for Year 2002 by World Development Indicators, The World Bank.

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Notes:

General:

The selection of countries was based upon the availability of wage data as reported in the <u>Yearbook of Labour Statistics 2003</u>, International Labour Organisation, (Geneva: 2003); and GNP data as reported in <u>World Development</u> Indicators, The World Bank, (Washington, DC: 2004).

Wages:

Wage rates are reported in the <u>Yearbook of Labour Statistics 2003</u>, ILO, (Geneva: 2003), Chapter 5B: Wages in Manufacturing. The years of the reported wage rates range from 1997 to 2003. Wages reported prior to 1996 and after 2002 are excluded from the analysis.

Wages reported by ILO are in most cases based on cash payments received from employers on a regular basis. In addition to remuneration for normal working hours, cost-of-living allowances and other regularly paid allowances are included in wages. Wages do not include remuneration for overtime, bonuses and gratuities, family allowances, or other social security payments made by the employer. See <u>Yearbook of</u> <u>Labour Statistics 2003</u> for further discussion of wage data.

Where monthly or daily wages are given, hourly wages are calculated assuming 24 working days per month, 5.5 working days per week, 8 working hours per day.

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Inflator:

Wages are inflated, where the base year is not 2002, using consumer price index data reported in <u>International Financial Statistics Online Service</u>, International Monetary Fund, (http://www.imt.org, Downloaded July 9, 2004). The inflator rate is calculated by dividing the consumer price index for 2002 by the consumer price index for the year the wage rate was reported.

Exchange rates:

Exchange rates are expressed as foreign currency per one U.S. dollar. For the majority of the countries in this analysis, the exchange rates used are as reported in <u>International Financial Statistics Online Service</u>.

Wages for Austria, Belgium, Ireland and the Netherlands were reported in schillings, Belgian francs, pounds and guilders, respectively. These wages were converted to euros using the European Central Bank's conversion rates made effective on January 1, 1999 (http://www.ecb.int). No wage data used for these countries was reported before 1999.

National Income:

GNI per capita is reported in <u>World Development Indicators</u>, The World Bank, (Washington, DC: 2004). See <u>World Development Indicators</u> for further information.

World Development Indicators did not have a GNI per capita figure available for Zimbabwe so it supplied an estimate for 2002.

Analysis:

Regression based on ordinary least squares method.

Exhibit 2

Report of Dr. Tapan K. Nayak, Ph.D.

Department of Commerce NME Wage Estimation

I <u>Introduction</u>

I have been retained by Grunfield, Desiderio, Lebowitz, Silverman and Klestadt LLP to provide an expert opinion on the appropriateness of the statistical regression used by the Department of Commerce (DOC) to estimate non-market-economy (NME) wage rates using market economies' per capita Gross National Income (GNI) and hourly labor rates. My professional background is included is appended to this report.

Regression analysis is a statistical methodology for relating a variable of interest, called the dependent (or response) variable, to one or more independent (or predictor) variables. The objective is to use the observed data to build a regression model, or prediction equation, which can then be used to describe, predict, or control the dependent variable on the basis of the independent variable(s). For example, a company may use regression analysis to model the relationship between sales and advertising expenditure, and then use that to decide how much they should spend for advertising.

A simple linear regression model relates a response variable (Y) and a single independent variable (X) by postulating that the mean value of the response variable, E(Y), varies with the value of the independent variable following an unspecified linear pattern, i.e.,

$$E(Y) = \beta_0 + \beta_1 X.$$

The values of β_0 and β_1 called the regression parameters, are estimated from the observed data. The actual value of Y would be different from the mean value E(Y), and the data points would scatter around the regression line.

Many textbooks¹ present the specific methods and formulas for calculating the estimates, making predictions or model evaluation using a regression analysis.

II. Application of Regression Analysis by DOC for Estimating NME Wage Rates

The Department of Commerce applies a regression analysis to estimate the wage rates of NME countries in antidumping duty investigations. For its proposed 2003 calculation, DOC modeled wage rate (Y) as a function of per capita GNI (X) using a simple linear regression model. In other words, DOC is using the observed relationship between GNI and wage rates in countries throughout the world to predict or estimate the wage rates in NME countries based on their respective GNI. The model parameters were estimated using hourly wages and per capita GNI of 52 market economy countries, and the method of ordinary least squares.² The wage rates for the NME country is then estimated by plugging-in its per capita GNI in the estimated regression equation, as described above.

III. Bias Due to Arbitrary Data Selection by DOC

For estimating the regression equation, DOC used 52 countries whose wage data are available in the <u>Yearbook of Labor Statistics 2004</u>, published by the International Labor Organization, and whose GNI data was available from the <u>2005 World</u>

¹ See, e.g., Applied Linear Regression Models, M. H. Kunter, C. J. Nachtsheim, and J. Neter, 2004, and Applied Regression Analysis, N. R. Draper, and H. Smith, 1998.

² See discussion below on ordinary least squares.

<u>Development Indicators</u>, published by the World Bank. However, the DOC ignored, without an explanation, many other countries whose GNI and wage data are also contained in the same sources.

As is well known, statistical estimates are not expected to be fully accurate, and they change from sample to sample. There are two aspects of estimation errors. One is "bias", which is under or over-estimation "on the average." The other one is variation of the estimates from sample to sample, which is measured technically by "standard error." The total error is often measured by "mean squared error", which is the sum of the squares of bias and standard error.

In general, the least square method (used by DOC) yields unbiased estimates (i.e., no systematic under or over-estimation) of the regression parameters provided that the assumed model is correct and that the data being utilized has been selected by a random sample. In addition, the standard errors decrease as sample size increases. The Department of Commerce also recognizes the fact that estimates based on a larger sample size are better, as evidenced by their statement: "In general, we believe that more data is better than less data, and that averaging of multiple data points (or regression analysis) should lead to more accurate results in valuing any factor production."³ Thus, one would expect more reliable estimates if more countries are included in the regression analysis for estimating NME wage rates.

Therefore, the most serious concern about the DOC analysis stems from the fact that the Department excluded 14 countries that have data that meets the Department's selection criteria (i.e. countries with wage data that is not more than 6 years old, and for which there is consumer price indexes available) and whose data is available from the

³ Notice of Final Rule Making, 62 Fed. Reg. 27296 at 27,367 (May 19, 1997).

same sources already being used by DOC. These market economy countries that the DOC excluded were not excluded randomly, as these countries have previously been excluded.⁴ Given that the Department has not excluded these countries through a random sampling, the DOC results are biased.

More importantly, sampling of the available data is employed when dealing with large amounts of data points. Given the small size of the data set available for this regression analysis, random sampling will not result in a more accurate representation of the relationship between wages and GNI. Furthermore, given that the universe of available data would be complete with the inclusion of these 14 additional countries, there is no valid reason for the Department to exclude these countries' data. Thus, DOC should revise its 2003 wage rate estimates for NME countries by recalculating its regression equation including the 14 countries excluded for no reason.

⁴ This has been the case for at least the last four years.

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Educational Record:

B.Sc. (Honors in Statistics), University of Calcutta, Calcutta, India, 1976.
M. Stat., Indian Statistical Institute, Calcutta, India, 1979.
Ph.D., University of Pittsburgh, Pittsburgh, U.S.A., 1983.
Ph.D. Dissertation, written under the supervision of Professor C. R. Rao, entitled, "Applications of Entropy Functions in Measurement and Analysis of Diversity."

Awards and Honors:

Elected member of the International Statistical Institute, 1996.

Recipient of ASA/USDA-NASS Senior Research Fellowship, July 1997 - August 1998. Recipient of Mellon Predoctoral Fellowship, University of Pittsburgh, Pittsburgh, 1982 - 1983. Secured top position in B.Sc. (Honors in Statistics), University of Calcutta, Calcutta, India, 1976. Recipient of Merit Scholarship, Govt. of India, 1969 - 1973.

Ranked First in Higher School Certificate Examination, Visva-Bharati, Santiniketan, India, 1973. Recipient of National Scholarship, Govt. of India, 1973 - 1976.

Professional Record:

Professor and Chairman, Aug. 2001 - Present; Professor, Sept. 1997 - Present; Associate Professor, June 1989 - August 1997; Assistant Professor, June 1984 - May 1989; Visiting Assistant Professor, Sept. 1983 - May 1984, Department of Statistics, George Washington University, Washington, DC 20052.

ASA/USDA-NASS Senior Research Fellow, National Agricultural Statistics Service, Research Division, 3251 Old Lee Highway, Fairfax, VA 22030, July 1997 - August 1998.

Visiting Scientist, Division of Theoretical Statistics and Mathematics, Indian Statistical Institute, Calcutta, India, September 1990 - December 1990.

Teaching/Research Assistant, Mathematics and Statistics Department, University of Pittsburgh, Pittsburgh, Sept. 1980 - Aug. 1983.

Lecturer, R.K.M.R. College, Narendrapur, India, Nov. 1979 - Aug. 1980.

Research Publications:

T.K. Nayak. On Diversity Measures Based on Entropy Functions. *Commun. Statist.- Theory Meth.* (1985), 14(1), 203-215.

C.R. Rao, and **T.K. Nayak**. Cross Entropy, Dissimilarity Measures and Characterizations of Quadratic Entropy. *IEEE Transactions on Information Theory*, (1985), IT-31, 589-593.

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Review of Theory of Point Estimation (2nd ed.) by E.L. Lehmann and George Casella. Journal of Statistical Planning and Inference, (2001), 93, 323-324.

Ph. D. Students Supervised:

Mary C. Christman. Thesis: "On Estimation of the Number of Classes in a Population" (1993).

Christopher L. Moriarity. (Co-advisor) Thesis: "Statistical Properties of Statistical Matching" (2001).

Abeer El-Baz. Thesis: "Some Contributions to Statistical Prediction Theory" (2004).

Professional Service:

Associate Editor, Communications in Statistics - Theory and Methods, 2002-present.

Associate Editor, Communications in Statistics - Simulation and Computation, 2002-present.

Guest Editor of Sankhya, Ser. A, Vol. 64(2), (2002); a special issue in honor of Professor C.R. Rao.

Reviewer, Mathematical Reviews, 1995 - present.

Member, Review Panel for evaluating research grant proposals submitted to Bureau of Transportation Statistics (2001).

Organizing Committee member of the international conference "Statistics: Reflections on the Past, Visions for the Future" (in honor of Professor C.R. Rao's 80th birthday) held in San Antonio, Texas, during March 16 - 20, 2000.

Methodology Program Chair, Washington Statistical Society, 1991-1992.

Methodology Section Chair, Washington Statistical Society, 1992-1993.

Treasurer, International Indian Statistical Association, 1997-1999.

Reviewer of research proposals for agencies such as NSF, EPA.

University Service:

Member, Faculty Senate Committee on Faculty Development and Support, 1993-1994. Member, Junior Scholar Research Incentive Award Committee, 1994-1995. Member, Dean's Council, 2000-2003.

Departmental Service:

Chairman, 2001 - present. Ph. D. Committee, Chair, since 1991; member, since 1983. Tenure and Promotion Review Committee, Chair, 1996-1997; member, 1992-1993, & 1995-1996. Departmental representative to the University (Gelman) Library, 1985-1990. Faculty Search Committee, 1991-1992, 1993-1994, 1996-1997, 1998-1999. Served as a reader or examiner of a dozen or more Ph. D. dissertations.

Research Grants:

Junior Scholar Research Incentive Program Award, George Washington University, 1986.

University Research Grant, George Washington University, 1988.

IPA (Intergovernmental Personnel Act) assignment. Funded by National Agricultural Statistics Service, July 1997 - August 1998

Co-PI on a cooperative research agreement with the Office of Waters of the US Environmental Protection Agency, 1999-2001.

Statistical Methods in Marketing Research. (PI), Capital One Services, Inc., 2004-2005.