

# SIEF Mega Costing Model for Nudge or Information Interventions Using SMS or Recorded Messages

Developed by the Strategic Impact Evaluation Fund (SIEF) team, the World Bank

Version 1.1

9/25/2020

## Instructions

### 1. Purpose

Following the five-step procedure of cost data capturing proposed by SIEF (see the figure below), this template provides detailed guidance on how to develop a cost model, record the cost data, and calculate the total cost, average cost and cost-effectiveness ratio for nudge or information interventions funded by the SIEF COVID-19 window.

Since all of these funded interventions are designed to be implemented for less than one year, we did not set up the functions to adjust for inflation or calculate the present value. All cells are unlocked, so you may customize the template based on your needs. For any technical issues, please contact Yilin Pan ([ypan@worldbank.org](mailto:ypan@worldbank.org)).





## 2. Before you start

### 1) Take stock of project budgets for all financing streams.

Budgets are an important yet insufficient source of information for cost estimation. A budget is similar to a monthly shopping list. It might include clothes, food, and any items that are needed for daily life. However, a cost model is more similar to a recipe for a specific dish and includes more than what would be on a shopping list, like cooking time and temperature, quantities of ingredients for specific dishes, or the number of people the recipe is meant to serve. Similarly, costing an intervention is not an accounting exercise for an organization or funding stream. Rather it is a detailed (disaggregated) listing and valuing of all resources and efforts required to make a specific thing - the intervention - happen.

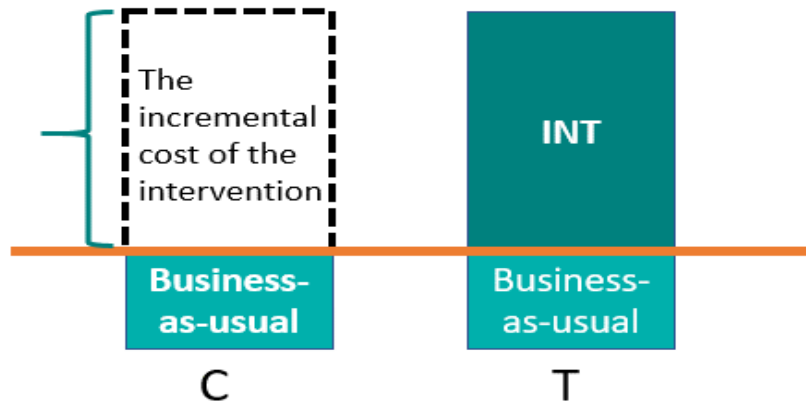
## 2) Identify what activities constitute the incremental cost of the intervention that needs to be cost out.

If the intervention is an add-on to business-as-usual that the control group receives, you will only need to cost out the intervention itself. Take a nudge intervention for a remote learning platform as an example. The nudge intervention is an add-on to the remote learning platform to which children in both the treatment group and the control group will have access. Therefore, there is no need to collect cost data on the development and the maintenance of the remote learning platform. The main efforts of data collection should be put on specifying the resources that are required to implement the nudge intervention.

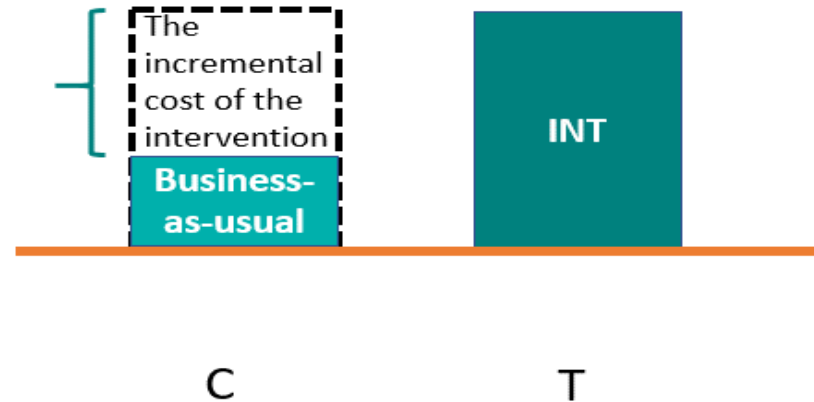
If the intervention is a replacement of business-as-usual that the control group receives, you will need to cost out the services received by both the treatment group and the control group in order to calculate the incremental cost of the treatment. In some cases, it would be difficult to leave the children in the control group unattended due to ethical concerns; hence, instead of the intervention of interest, the control group would receive some supplementary services. In this situation, you will need to track the resources utilized by both the treatment group and the control group.

Note that only the resources required to implement the intervention should be accounted for. Resources that contribute to the evaluation of the intervention are not considered as the cost of the intervention.

When the intervention is an **add-on** to business-as-usual .....



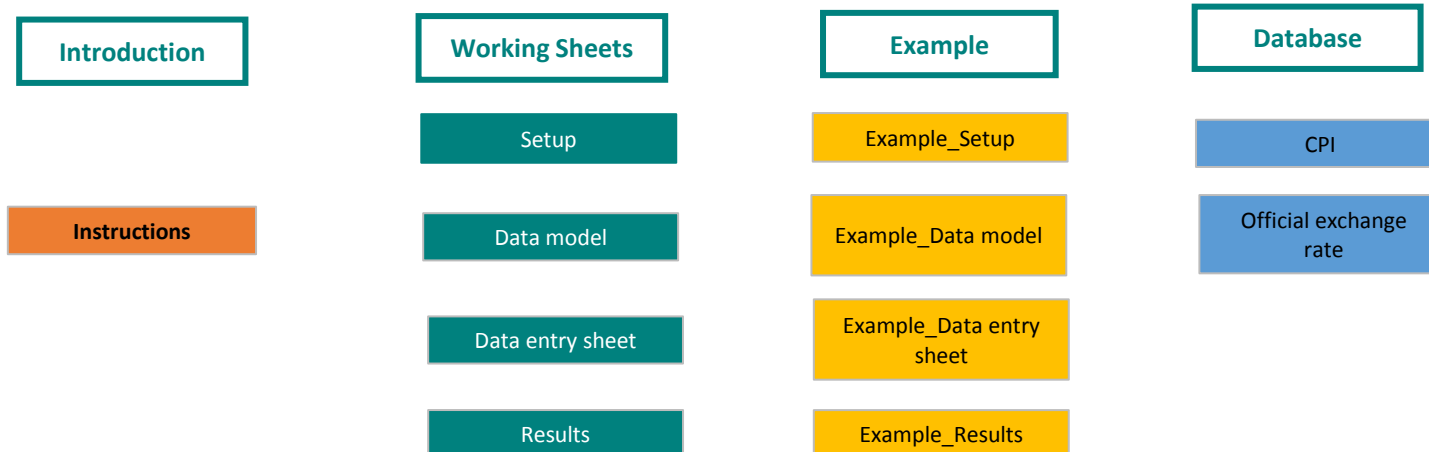
When the intervention is a **replacement** of business-as-usual .....



### 3) Identify who on project team knows about scope and use of each budget line.

Since the budgets from all financing streams only provide a rough picture on the planning of the implementation, it is essential to identify project team members who know the scope and use of each budget line and schedule interviews with them to understand how the intervention is actually implemented. If possible, we strongly recommend you interview these project members before the intervention starts and right after the intervention ends. The first round of interviews aims to help you get feedback on the ingredient list that you drafted based on the budgets and the program design, create buy-in among the implementation team about the importance of conducting a cost analysis, and familiarize them with the instruments of cost data collection, e.g., how to fill out the timesheet to report their time allocation. The second round of interviews at the endline will help you finalize the ingredient list and fill any information gap left for the cost analysis.

### 3. Structure of the template



### 4. References

For more information on cost data collection, please refer to a policy brief and two blogs developed by SIEF.

[Capturing cost data](#)

[Capturing cost data: a first-mile problem](#)

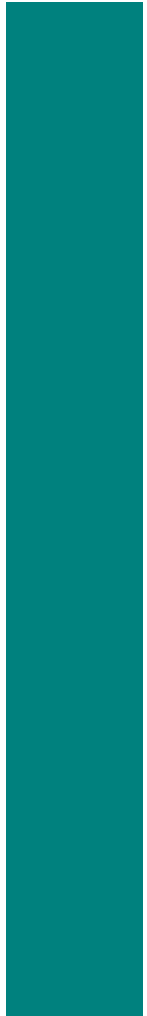
[How much do our impacts cost?](#)

### 5. Printing

To print, set the margin to be "narrow" and set the page to be "landscape orientation".

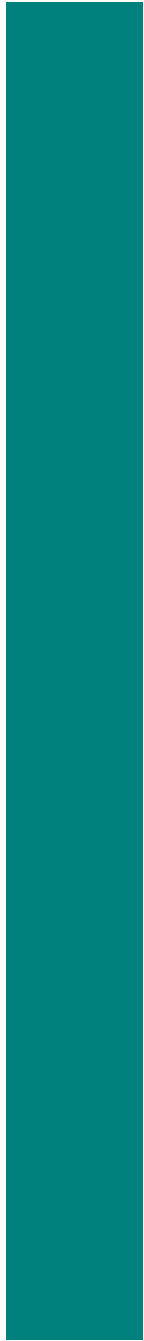














# Setup

1. Country

2. Program name

3. Age of targeted children

4. Impact evaluation (Describe the evaluation's experimental groups)

	What interventions each will receive	# of participants offered
Treatment 1	<input type="text"/>	<input type="text"/>
Treatment 2	<input type="text"/>	<input type="text"/>
Treatment 3	<input type="text"/>	<input type="text"/>
Treatment 4	<input type="text"/>	<input type="text"/>
Control group	<input type="text"/>	<input type="text"/>

5. Year of implementation

	Month	Date	Year
Start from	<input type="text"/>	<input type="text"/>	<input type="text"/>
End at	<input type="text"/>	<input type="text"/>	<input type="text"/>

6. Base currency

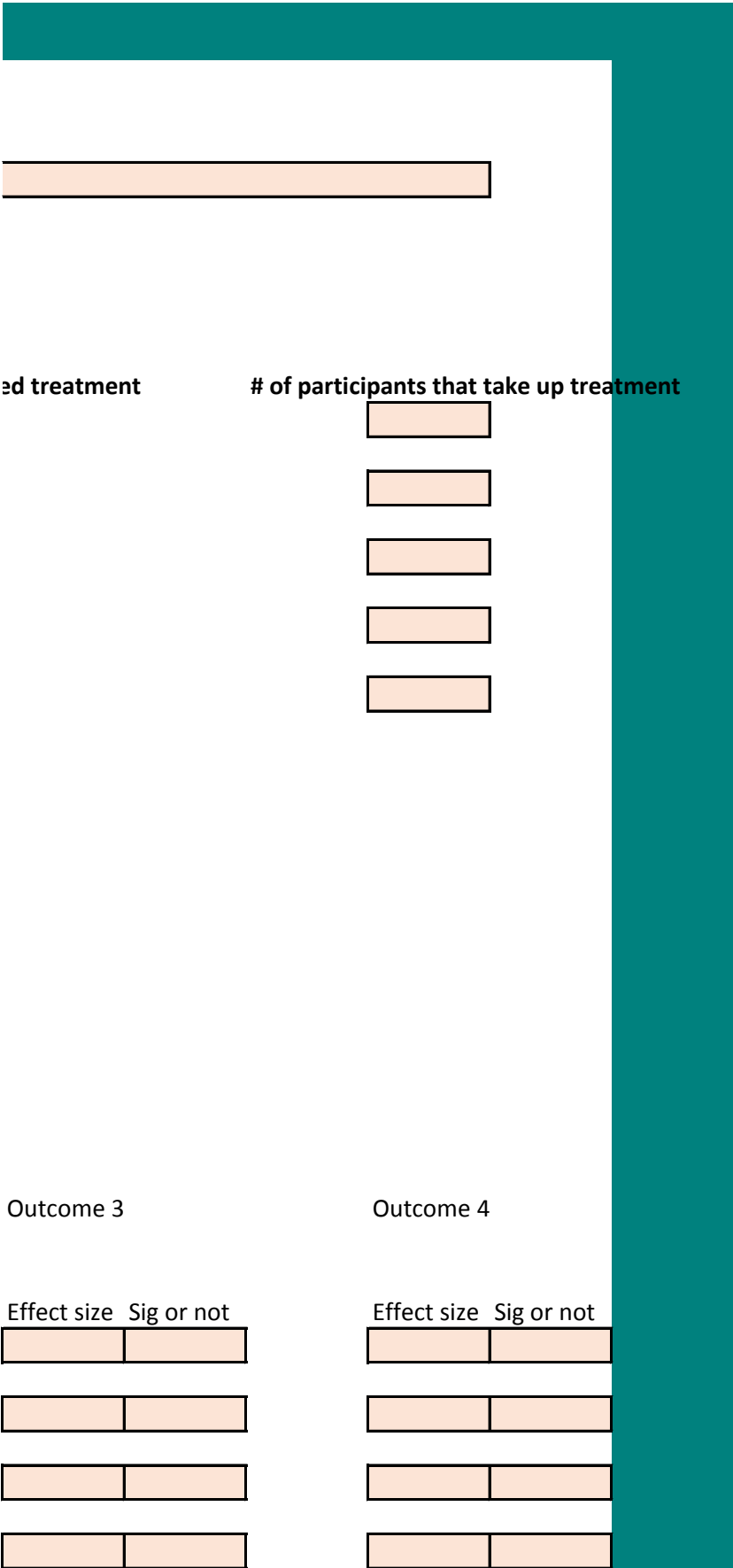
7. Year in which cost is expressed

8. Discount rate (not needed for one-year intervention)

9. Effectiveness

	Outcome 1		Outcome 2	
	Effect size	Sig or not	Effect size	Sig or not
Treatment 1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Treatment 2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Treatment 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Treatment 4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>





**Legend**

Input 

Required inputs are bc



olded

## Cost Model

Resource category	Ingredient	Information to collect	Unit	Suggested frequency	Suggested data source
Content development	Staff time spent on designing, testing and revising the content of the SMS messages/recorded messages/phone instructions/radio skits	Number of staff in this category	FTE	Once, either at baseline or endline	Interview/budget
		Roles and responsibilities	N/A	Once, either at baseline or endline	Interview
		% of time devoted to the implementation of this intervention	%	Monthly	Timesheet/interview
		Monthly/annual salary	Local currency	Once, either at baseline or endline	Budget/salary scale
		Will the content be reused in the future? If so, how many more children can benefit from it?	# of children	Once, either at baseline or endline	Interview



	License fee to use an existing curriculum (if applicable)	License fee	Local currency	Once, at baseline	Budget/financial report
<b>Personnel involved in implementation</b>	Program manager(s)	Number of staff in this category	FTE	Once, either at baseline or endline	Interview/budget
		Roles and responsibilities	N/A	Once, either at baseline or endline	Interview
		% of time devoted to the implementation of this intervention	%	Monthly	Timesheet/interview
		Monthly/annual salary	Local currency	Once, either at baseline or endline	Budget/salary scale
	Support team (please disaggregate this category based on your needs, e.g., administration officers, monitoring specialists, staff coordinating with phone company, technicians, etc.)	Number of staff in this category	FTE	Once, either at baseline or endline	Interview/budget
Roles and responsibilities		N/A	Once, either at baseline or endline	Interview	

	% of time devoted to the implementation of this intervention	%	Monthly	Timesheet/interview
	Monthly/annual salary	Local currency	Once, either at baseline or endline	Budget/salary scale
MoE staff time (if applicable)	Number of staff in this category	FTE	Once, either at baseline or endline	Interview/budget
	Roles and responsibilities	N/A	Once, either at baseline or endline	Interview
	% of time devoted to the implementation of this intervention	%	Monthly	Timesheet/interview
	Monthly/annual salary	Local currency	Once, either at baseline or endline	Budget/salary scale
Field coordinator's time devoted to the implementation of the intervention (if applicable)	Number of staff in this category	FTE	Once, either at baseline or endline	Interview/budget

	Roles and responsibilities	N/A	Once, either at baseline or endline	Interview
	% of time devoted to the implementation of this intervention	%	Monthly	Timesheet/interview
	Monthly/annual salary	Local currency	Once, either at baseline or endline	Budget/salary scale
Teachers (if applicable)	Number of staff in each treatment arm	FTE	Once, either at baseline or endline	Interview/budget
	Roles and responsibilities	N/A	Once, either at baseline or endline	Interview
	% of time devoted to the implementation of this intervention, including their training time	%	Monthly	Timesheet/interview
	Monthly/annual salary	Local currency	Once, either at baseline or endline	Budget/salary scale
Community mobilizers (if applicable)	Number of staff in this category	FTE	Once, either at baseline or endline	Interview/budget

	Roles and responsibilities	N/A	Once, either at baseline or endline	Interview
	Number of days devoted to the implementation of this intervention per community mobilizer, including training, home visits and commute.	%	Monthly	Timesheet/interview
	Daily rate	Local currency	Once, either at baseline or endline	Budget/salary scale
Training of lead mothers (if applicable)	Lead mothers' time to participate in the training	# of hours	Once, at endline	Interview or internal tracking system

		Hourly wage of the lead mothers	Local currency	Once, at endline	Phone survey or labor market statistics
		Trainers' time to organize, prepare and conduct the training (if it has not been covered in the category of "personnel time" yet)	# of hours	Once, at endline	Interview or internal tracking system
		Trainers' hourly wage (if trainers' time has not been covered yet)	Local currency	Once, either at baseline or endline	Budget or salary scale
		Cost of the facilities, equipment and materials	Local currency	Once, at endline	Budget or financial report
<b>Service delivery</b>	SMS/WhatsApp messages/recorded messages rollout	Total cost of the service	Local currency	Once, at endline	Budget/Financial report

	Number of messages/voice calls sent for each treatment arm	# of messages/voice calls	Monthly	Internal tracking system
Any compensation for teachers to conduct phone instructions, e.g., data plan (if applicable)	Compensation per teacher or compensation per phone call	Local currency	Once, at endline	Financial report
	Number of teachers receiving the compensation in each treatment arm or number of phone calls conducted in each treatment arm	# of teachers or # of phone calls	Monthly	Internal tracking system
Compensation for households to use internet (if applicable)	Compensation per household	Local currency	Once, at endline	Financial report
	Number of household receiving the compensation in each treatment arm	# of households	Once, at endline	Financial report/internal tracking system
Cost to distribute the internet compensation	Total cost of the service	Local currency	Once, at endline	Market price from the implementing agency

Transportation cost for community mobilizers (if applicable)	Transportation compensation per social mobilizer per trip or total transportation cost Number of round trips conducted for each treatment arm	Local currency  # of round trips	Once, at endline  Monthly	Financial report  Internal tracking system
Digital cash transfer (if applicable)	Size of the cash transfer # of households receiving the cash transfer  Service cost for transferring the money	Local currency # of households	Once, at baseline Once, at endline  Once, at endline	Budget/financial report Internal tracking system/phone interview  Financial report
Radio theater skits (if applicable)	Total cost of the service # of households benefiting from the radio skits	Local currency # of households	Once, at endline Once, at endline	Budget/Financial report Interview/phone survey

**Client input**

Additional time spent by parents on engaging in child learning (e.g., time to make toys following the phone messages on how mother/caregiver could interact with your child) OR additional time spent by parents on engaging in home visits

Time of engagement

# of hours Monthly

Phone survey

Monthly salary of the caregiver


Local currency

Once, either at baseline or endline

Phone survey.  
If it is not possible to collect the monthly salary of the caregivers through phone survey, you may check the national or regional labor market statistics and impute the caregivers' salary using the reported minimum or average wage.



Earnings loss of the older students induced by the program (if applicable)	Number of days/hours of earnings loss	# of hours/days	Once, at baseline	Phone survey	
	Daily/hourly wage	Local currency	Once, at baseline	Phone survey, or the minimum wage reported in the labor market statistics.	
<b>Other (if applicable)</b>	Administrative overhead cost	Total cost	Local currency	Once, either at baseline or endline	Budget/Financial report



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## **Interview questions**

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*How many staff are involved in this category/position?*

*What are their roles and responsibilities in this intervention?*

*How much of their time is devoted to the implementation of this intervention? (If the interviewee can not come up with the percentage, ask how many hours per week)*

*Will the content be reused in the future? If so, how many more children can benefit from it?*

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*How many staff are involved  
in this category/position?*

*What are their roles and  
responsibilities in this  
intervention?*

*How much of their time is  
devoted to the  
implementation of this  
intervention? (If the  
interviewee can not come up  
with the percentage, ask  
how many hours per week)*

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*How many staff are involved in this category/position?*

*What are their roles and responsibilities in this intervention?*

*How much of their time is devoted to the implementation of this intervention? (If the interviewee can not come up with the percentage, ask how many hours per week)*

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*How many lead mothers participated in the training?*

*What is the duration and frequency of training, e.g., number of hours per year?*

*How much time did the lead mothers spend on commuting on average?*

*How much income do you earn from wages and/or salaries in a normal work day? (If the interviewee is not willing to reveal their income, ask them to choose among several categories).*

*Who served as the trainers?  
How many trainers were involved?*

*How much time did each trainer spend on organizing, preparing and conducting the training?*

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*How much more time per week do you spend on engaging in your child's learning? (If the interviewee does not understand the question, ask how much time he/she spent on engaging in child learning before the implementation of the program and how much time he/she spends now)*

*How much income do you earn from wages and/or salaries in a normal work day? (If the interviewee is not willing to reveal their income, ask them to choose among several income levels, or ask about their occupation).*

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*Without this intervention,  
would you have worked  
outside of the household to  
earn some salary?*

*If so, how many hours would  
you have worked each  
week?*

*How much income do you  
expect to earn from wages  
and/or salaries in a normal  
work day? (If the  
interviewee is not willing to  
reveal their income, ask  
them to choose among  
several categories).*

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## Cost Data Entry

Ingredient		
Name of ingredient	Time period	Description
Program manager(s)	Month 1	[Describe the roles and responsibilities]
	Month 2	[Describe the roles and responsibilities]
	Month 3	[Describe the roles and responsibilities]
	Month 4	[Describe the roles and responsibilities]
	Month 5	[Describe the roles and responsibilities]
	Month 6	[Describe the roles and responsibilities]
Support team (please disaggregate based on	Month 1	[Describe the roles and responsibilities]
	Month 2	[Describe the roles and responsibilities]
	Month 3	[Describe the roles and responsibilities]
	Month 4	[Describe the roles and responsibilities]
	Month 5	[Describe the roles and responsibilities]
	Month 6	[Describe the roles and responsibilities]
MoE staff time (if applicable)	Month 1	[Describe the roles and responsibilities]
	Month 2	[Describe the roles and responsibilities]
	Month 3	[Describe the roles and responsibilities]
	Month 4	[Describe the roles and responsibilities]
	Month 5	[Describe the roles and responsibilities]
	Month 6	[Describe the roles and responsibilities]
Field coordinator's time devoted to impleme	Month 1	[Describe the roles and responsibilities]
	Month 2	[Describe the roles and responsibilities]
	Month 3	[Describe the roles and responsibilities]
	Month 4	[Describe the roles and responsibilities]
	Month 5	[Describe the roles and responsibilities]
	Month 6	[Describe the roles and responsibilities]
Teachers (if applicable)	Month 1	[Describe the roles and responsibilities]
	Month 2	[Describe the roles and responsibilities]
	Month 3	[Describe the roles and responsibilities]
	Month 4	[Describe the roles and responsibilities]
	Month 5	[Describe the roles and responsibilities]
	Month 6	[Describe the roles and responsibilities]
Community mobilizers (if applicable)	Month 1	[Describe the roles and responsibilities]
	Month 2	[Describe the roles and responsibilities]
	Month 3	[Describe the roles and responsibilities]
	Month 4	[Describe the roles and responsibilities]
	Month 5	[Describe the roles and responsibilities]
	Month 6	[Describe the roles and responsibilities]
Training of lead mothers	role intervention	
Staff time spent on designing, testing and rev	Month 1	[Describe the roles and responsibilities]
	Month 2	[Describe the roles and responsibilities]

Month 3 [Describe the roles and responsibilities]

Month 4 [Describe the roles and responsibilities]

Month 5 [Describe the roles and responsibilities]

Month 6 [Describe the roles and responsibilities]

License fee to use an existing curriculum role intervention

SMS/WhatsApp messages/voice calls rollout role intervention

Compensation for teachers to conduct phone role intervention

Compensation for households to use internet role intervention

Cost to distribute the internet compensation role intervention

Transportation cost for community mobilizer role intervention

Digital cash transfer (if applicable) role intervention

Radio theater skits (if applicable) role intervention

Additional time spent by parents (if applicable) Month 1

Month 2

Month 3

Month 4

Month 5

Month 6

Earnings loss of the students induced by the role intervention

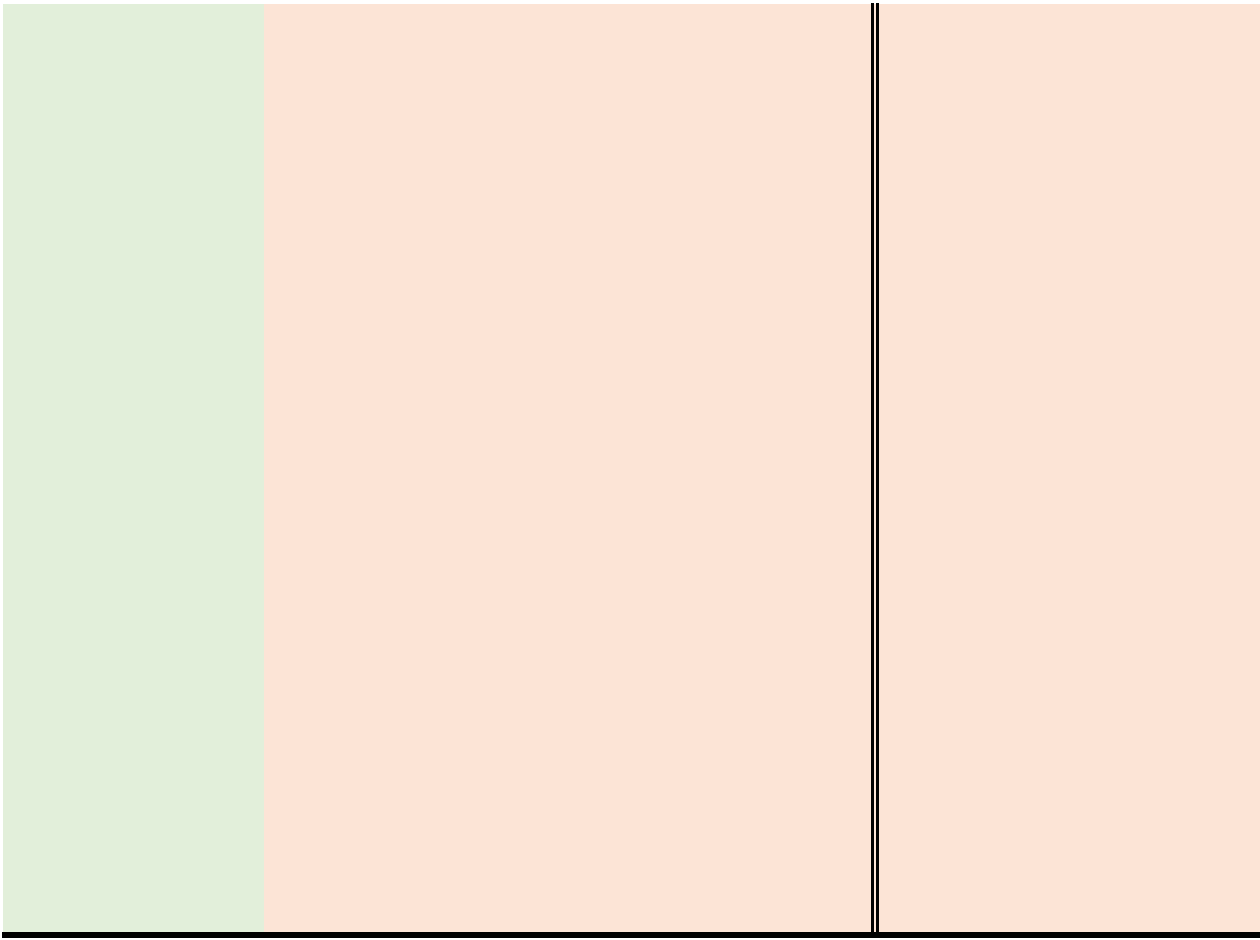
Administrative overhead cost (if applicable) role intervention





Total cost (in U.S. dollars) <i>Insert your formula</i>	Cost		Distribution of the c	
	Start-up/recurrent	Cost borne by which agency	Treatment 1 (%)	Treatment 2 (%)













# Results

**Table 1. Summary of total cost and average cost**

	Treatment 1	Treatment 2	Treatment 3	Treatment 4	Control
Total cost	\$ -	\$ -	\$ -	\$ -	\$ -
Average cost per targeted participant	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average cost per treated participant	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

**Instructions:**

Average cost per targeted participant = Total cost / # of participants offered treatment

Average cost per treated participant = Total cost / # of participants that take up treatment

**Table 2. Cost-effectiveness ratio of treatment arms in improving [specify the outcome]**

	Treatment 1	Treatment 2	Treatment 3	Treatment 4
Cost per targeted participant	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average treatment effect (ITT)				
Cost-effectiveness ratio	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

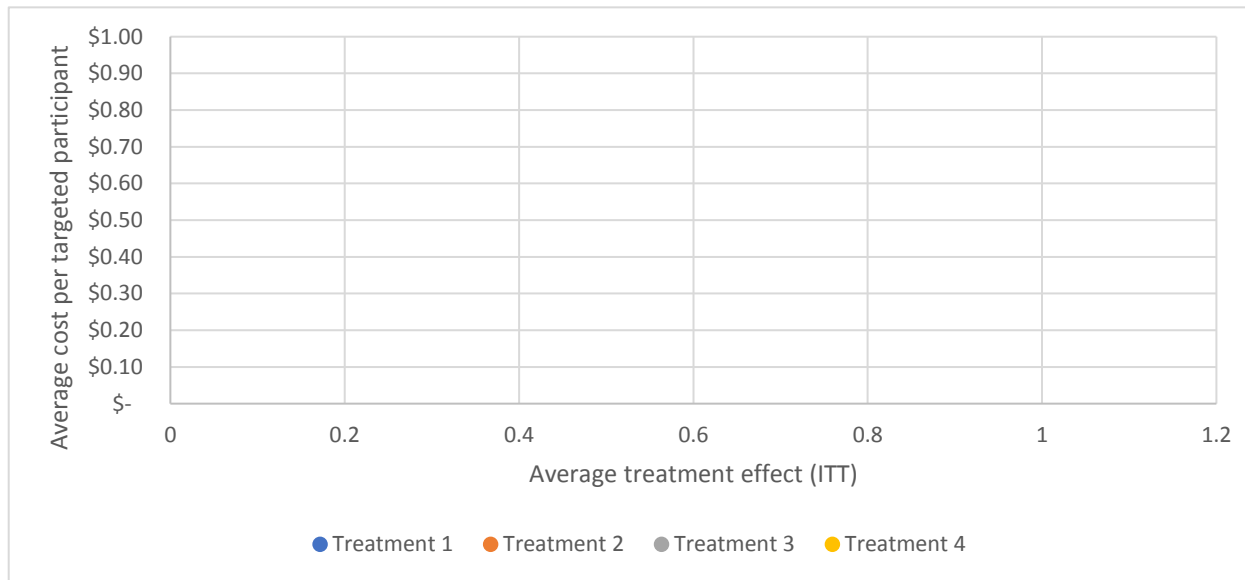
OR

	Treatment 1	Treatment 2	Treatment 3	Treatment 4
Cost per treated participant	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Average treatment effect (ToT)				
Cost-effectiveness ratio	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

**Instructions:**

- 1) When the total cost of the control group is non-zero, the incremental cost of each treatment arm is the difference between the cost of the treatment arm and the cost of the control group.
- 2) Average cost per targeted participant is the ITT cost estimate, which should be paired with the ITT effectiveness estimate when calculating the cost-effectiveness ratio. Average cost per treated participant is the ToT cost estimate, which should be paired with the ToT effectiveness estimate when calculating the cost-effectiveness ratio.

**Figure 1. The distribution of cost and effectiveness of different treatment arms**




**Instructions:**

The figure shows the comparison of the treatment arms in effectiveness and cost. The x-axis is the average treatment effect (ITT) and the y-axis is the average cost per targeted participant, which is the difference between the cost of the treatment arm and the cost of the control group. If the average cost is negative, it indicates that the cost of the control group exceeds the cost of the treatment arm.





**Legend**

Input 

Output 

# Hypothetical Example

## Background

Afghanistan closed all education institutions on March 14, 2020 in an attempt to reduce the the government announced that all lessons would be taught through television and radio in the low take-up rate of the lessons. Parents and students may not be well-informed of the s approximately 90% of the Afghan household own one or more mobile phones, it might be h using SMS messages to encourage their children to attend these lessons.

## Hypothetical evaluation

**Suppose** a research team conducted an experiment to evaluate the impact of SMS reminder old. Among the 1,500 children that they recruited, they randomly assigned 500 children to r receive SMS reminders twice a week, and 500 children as the control group who did not rec that children who received SMS reminders once a week scored 0.20 standard deviation high group, which is statistically significant; and receiving SMS reminders twice a week increased deviation. Please note that **these results are suppositious** for the purpose of demonstrating intervention.

## Setup

1. Country	<input type="text" value="Afghanistan"/>		
2. Program name	<input type="text" value="A nudge intervention using SMS messages"/>		
3. Age of targeted children	<input type="text" value="6-12 years old"/>		
4. Impact evaluation (Describe the evaluation's experimental groups)			
	What interventions each will receive	# of participants that t	
Treatment 1	<input type="text" value="SMS messages once a week"/>	<input type="text" value="500"/>	
Treatment 2	<input type="text" value="SMS messages twice a week"/>	<input type="text" value="500"/>	
Treatment 3	<input type="text"/>	<input type="text"/>	
Treatment 4	<input type="text"/>	<input type="text"/>	
Control group	<input type="text" value="No SMS messages"/>	<input type="text" value="500"/>	
5. Year of implementation			
	Month	Date	Year
Start from	<input type="text" value="June"/>	<input type="text" value="1"/>	<input type="text" value="2020"/>
End at	<input type="text" value="July"/>	<input type="text" value="31"/>	<input type="text" value="2020"/>
6. Base currency	<input type="text" value="Afghan afghani"/>		

7. Year in which cost is expressed

8. Discount rate (not needed for one-year intervention)

9. Effectiveness

	Outcome 1 Student achievement	Outcome 2
	Effect size Sig or not	Effect size Sig or not
Treatment 1	<input type="text" value="0.2"/> <input type="text" value="Sig"/>	<input type="text"/> <input type="text"/>
Treatment 2	<input type="text" value="0.25"/> <input type="text" value="Sig"/>	<input type="text"/> <input type="text"/>
Treatment 3	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>
Treatment 4	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>

spread of COVID-19. In order to alleviate learning loss, mid April. One important challenge of remote learning is the schedule of the televised or broadcast lessons. Given that it is helpful to send parents reminders of the class schedule

researchers on the learning outcomes of children aged 6-12 years who received SMS reminders once a week, 500 children to receive any SMS messages. After two months, they found that the intervention group performed better on a cognitive assessment than those in the control group, with a significant increase in student achievement by 0.25 standard deviations. How to use this template to cost out a nudge



**Legend**

Input 

**Required inputs are bc**

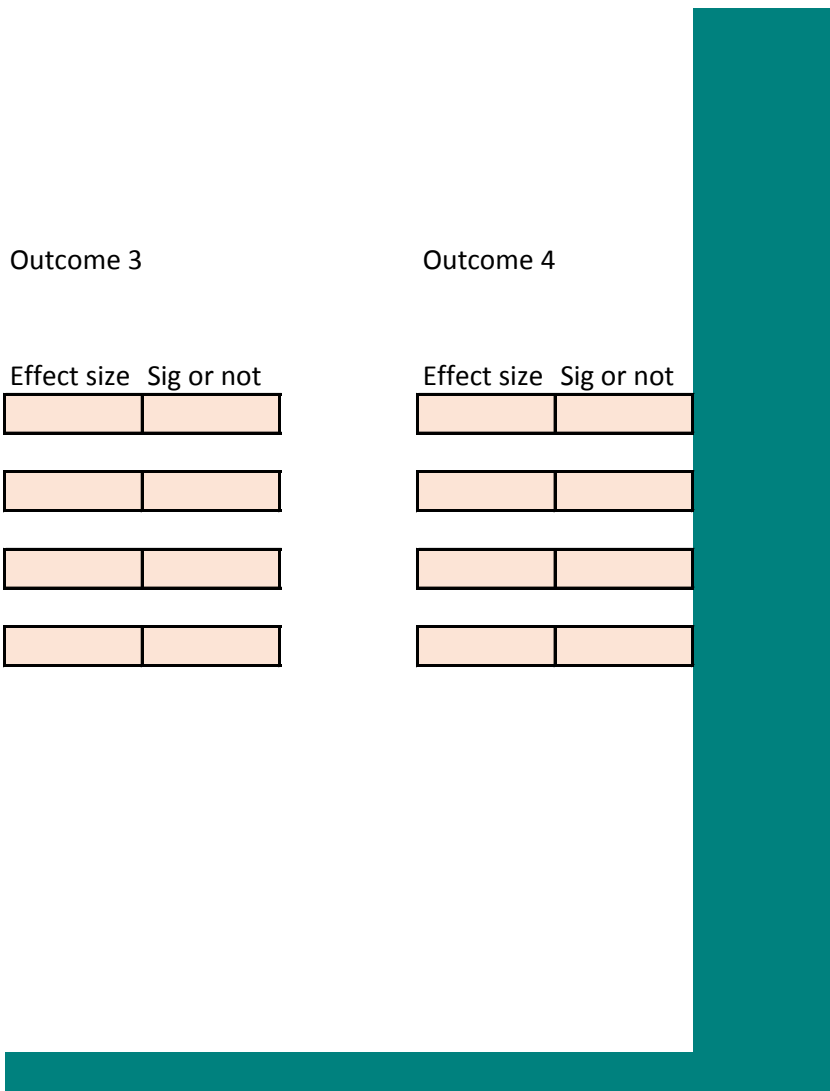
Take up treatment	# of participants offered treatment
	450
	465
	455

Outcome 3

Effect size	Sig or not

Outcome 4

Effect size	Sig or not



ended

## Hypothetical Example

Before the intervention was implemented, the research team reviewed the budget document then interviewed the program manager to check whether the ingredient list was complete. The research team contacted a technology company to push out the SMS messages. According to the budget, the total cost of the intervention was \$10,000. The program manager would be responsible for checking whether the phone numbers of the students are valid and for contacting the technology company to push out the SMS messages. Meanwhile, two technicians would be responsible for checking the phone numbers, pushing out the SMS messages, and tackling any technical issues. The research team finalized the ingredient list, the budget, and the interview (see below). Since the program manager and the technicians also had other responsibilities, they filled out a timesheet to record the distribution of their time across the interventions. The research team also conducted a survey to elicit parents' involvement induced by the intervention and their monthly salaries.

## Cost model

Resource category	Ingredient	Information to collect	Unit
Personnel involved in implementation	Program manager(s)	Number of staff in this category	FTE
		Roles and responsibilities	N/A
		% of time devoted to the implementation of this intervention	%
		Monthly/annual salary	Local currency
	Technicians	Number of staff in this category	FTE
		Roles and responsibilities	N/A
		% of time devoted to the implementation of this intervention	%

		Monthly/annual salary	Local currency
<b>Service delivery</b>	SMS/WhatsApp messages/recorded messages rollout	Total cost of the service	Local currency
		Number of messages/voice calls sent for each treatment arm	# of messages/voice calls
<b>Client input</b>	Additional time spent by parents on engaging in child learning	Time of engagement	# of hours
		Monthly salary of the caregiver	Local currency



ments from all financing streams and identified a few key ingredients. They  
 te. They found that the program would contract with a local education  
 ost is 200,000 Afghani for all SMS messages. The program manager noted that  
 alid, coordinating with the local education technology company to process the  
 cians would provide technical support, such as drafting and revising the SMS  
 t and the cost data collection plan based on information collected from the  
 ire also involved in other interventions, the research team asked them to fill  
 earch team also decided to add two more questions to the endline phone  
 y.



<b>Suggested frequency</b>	<b>Suggested data source</b>	<b>Interview questions</b>
Once, either at baseline or endline	Interview/budget	<i>How many staff are involved in this category/position?</i>
Once, either at baseline or endline	Interview	<i>What are their roles and responsibilities in this intervention?</i>
Monthly	Timesheet	
Once, either at baseline or endline	Budget/salary scale	
Once, either at baseline or endline	Interview/budget	<i>How many staff are involved in this category/position?</i>
Once, either at baseline or endline	Interview	<i>What are their roles and responsibilities in this intervention?</i>
Monthly	Timesheet	

Once, either at  
baseline or endline      Budget/salary scale

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Once, at endline      Budget/Financial report

Monthly      Internal tracking system

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Monthly      Phone survey      *How much more time per week do you spend on engaging in your child's learning? (If the interviewee does not understand the question, ask how much time he/she spent on engaging in child learning before the implementation of the program and how much time he/she spends now)*

Once, either at  
baseline or endline      Plan A: Phone survey.      *How much income do you earn from wages and/or salaries in a normal work day? (If the interviewee is not willing to reveal their income, ask them to choose among several income levels or ask about their occupation).*  
Plan B: If it is not possible to collect the monthly salary of the caregivers through phone survey, you may check the national or regional labor market statistics and impute the caregivers' salary using the reported minimum or average wage.

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## Hypothetical Example

The research team interviewed the program manager again at the end of the implementation to check the planned budget. Based on the information collected through interviews, budgets and phone survey and calculate the total cost.

### Cost Data Entry

Ingredient			
Name of ingredient	Time period	Description	Quantity
Program manager (PM)	Month 1	1 person * 100% of her time (program setup & monitoring)	1
Program manager (PM)	Month 2	1 person * 90% of her time (monitoring)	0.9
Technicians	Month 1	2 persons * 80% of their time (technical support)	1.6
Technicians	Month 2	2 persons * 80% of their time (technical support)	1.6
SMS messages rollout	Month 1-2	The program contracted with a local education technology company to push out the SMS messages. The total cost is 200,000 for all SMS messages.	1
Additional time spent by parents in T1	Month 1-2	Parents on average reported that they spent 15 minutes per week on interacting with their children. 450 parents in T1 * 0.25 hours/week * 8 weeks	900
Additional time spent by parents in T2	Month 1-2	Parents on average reported that they spent 20 minutes per week on interacting with their children. 465 parents in T2 * 0.33 hours/week * 8 weeks	1228


check whether the actual cost deviated from the /s, they filled out this spreadsheet to record the data

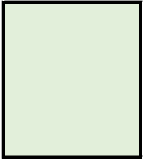
Quantity		Price		Total Cost (in local currency)	Total cost (in U.S. dollars)
Unit	Source of the Quantity	Unit Price (in local currency)	Source of the Unit Price		
FTE/month	Timesheet	12000	Budget	12000 \$	154
FTE/month	Timesheet	12000	Budget	10800 \$	139
FTE/month	Timesheet	10000	Budget	16000 \$	206
FTE/month	Timesheet	10000	Budget	16000 \$	206
	N/A	200000	Budget	200000 \$	2,573
Hour	Phone survey	125	Minimum wage	112500 \$	1,447
Hour	Phone survey	125	Minimum wage	153450 \$	1,974

Cost		Distribution of the cost across the arms (sum is 1)			
Start-up/recurrent	Cost borne by which agency	Treatment 1 (%)	Treatment 2 (%)	Treatment 3 (%)	Treatment 4 (%)
Recurrent	Program funder	49%	51%		
Recurrent	Program funder	49%	51%		
Recurrent	Program funder	33%	67%		
Recurrent	Program funder	33%	67%		
Recurrent	Program funder	33%	67%		
Recurrent	Parents	100%			
Recurrent	Parents		100%		

Cost of the arms by ingredient					
Control (%)	Treatment 1 (in US\$)	Treatment 2 (in US\$)	Treatment 3 (in US\$)	Treatment 4 (in US\$)	Control (in US\$)
0	\$ 75.92	\$ 78.45	\$ -	\$ -	\$ -
	\$ 68.33	\$ 70.60	\$ -	\$ -	\$ -
	\$ 67.12	\$ 138.70	\$ -	\$ -	\$ -
	\$ 67.12	\$ 138.70	\$ -	\$ -	\$ -
	\$ 838.94	\$ 1,733.81	\$ -	\$ -	\$ -
	\$ 1,447.17	\$ -	\$ -	\$ -	\$ -
	\$ -	\$ 1,973.94	\$ -	\$ -	\$ -

**Legend**

Input 

Output 

## Hypothetical Example

The results indicate that while treatment 2 is more costly than treatment 1, it is also more effective in improving student achievement. The comparison of the cost-effectiveness ratios shows that treatment 1 is more cost-effective than treatment 2, as it costs less to achieve one unit of outcome than treatment 2. Policymakers decide which intervention to adopt or scale up based on the comparison of the effectiveness, cost and cost-effectiveness ratio and the resources available.

## Results

**Table 1. Summary of total cost and average cost**

	Treatment 1	Treatment 2	Control
Total cost	\$ 2,564.58	\$ 4,134.21	0
Average cost per targeted participant	\$ 5.13	\$ 8.27	0
Average cost per treated participant	\$ 5.70	\$ 8.89	0

**Instructions:**

Average cost per targeted participant = Total cost / # of participants offered treatment

Average cost per treated participant = Total cost / # of participants offered treatment

**Table 2. Cost-effectiveness ratio of treatment arms in improving student achievement**

	Treatment 1	Treatment 2
Cost per targeted participant	\$ 5.13	\$ 8.27
Average treatment effect (ITT)	0.2	0.25
Cost-effectiveness ratio	\$ 25.65	\$ 33.07

OR

	Treatment 1	Treatment 2
Cost per treated participant	\$ 5.70	\$ 8.89
Average treatment effect (ToT)	0.25	0.29
Cost-effectiveness ratio	\$ 22.80	\$ 30.66

**Instructions:**

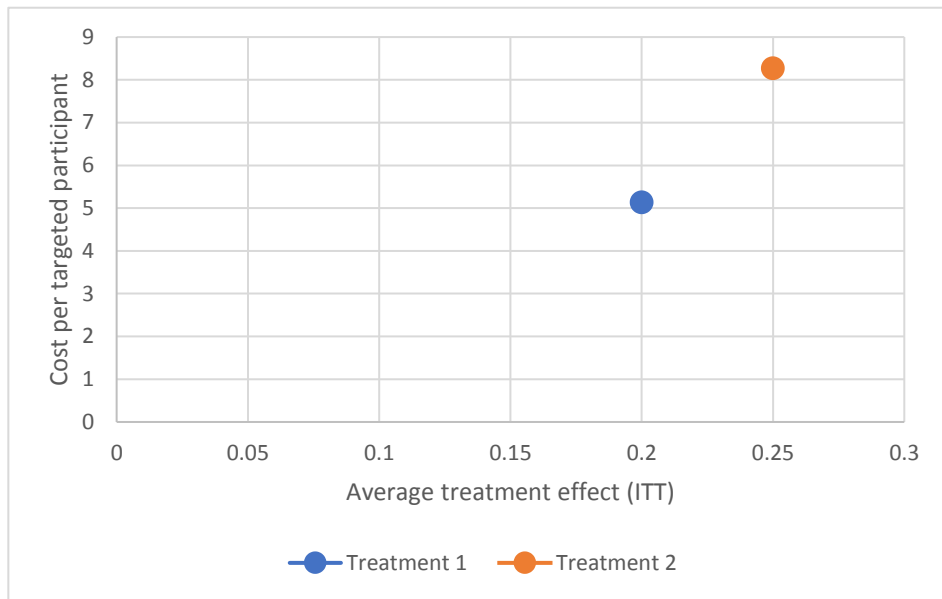
1) When the total cost of the control group is non-zero, the incremental cost of each treatment arm is the difference between the cost of the treatment arm and the cost of the control group.

2) Average cost per targeted participant is the ITT cost estimate, which should be paired with the ITT effectiveness estimate when calculating the cost-effectiveness ratio.

Average cost per treated participant is the ToT cost estimate, which should be paired with the ToT effectiveness estimate when calculating the cost-effectiveness ratio.



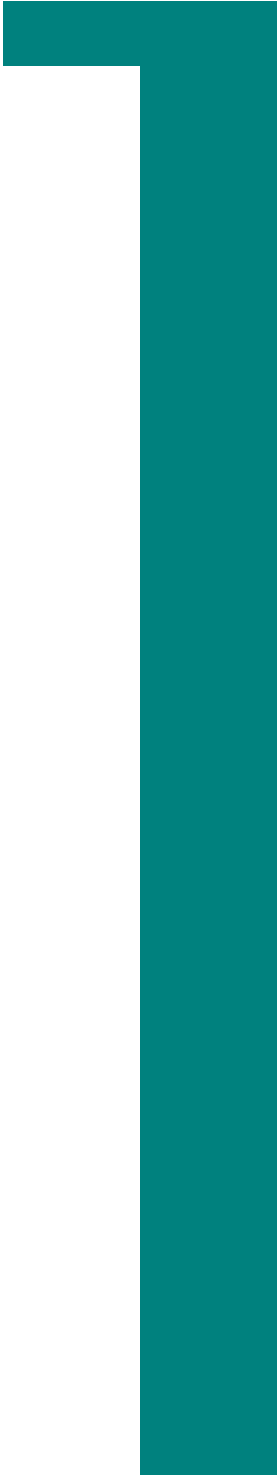
**Figure 1. The distribution of cost and effectiveness of different treatment arms**




**Instructions:**

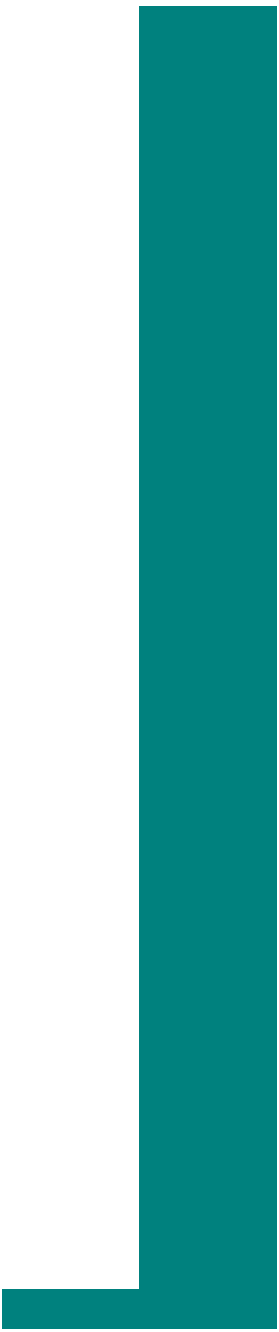
The figure shows the comparison of the treatment arms in effectiveness and cost. The x-axis is the average treatment effect (ITT) and the y-axis is the average cost per targeted participant, which is the difference between the cost of the treatment arm and the cost of the control group. If the average cost is negative, it indicates that the cost of the control group exceeds the cost of the treatment arm.

oving  
ers may  
-



Input 

Output 



## Consumer price index (2010 = 100)

Country Name	Country Code	1960 [YR1960]	1961 [YR1961]	1962 [YR1962]	1963 [YR1963]	1964 [YR1964]	1965 [YR1965]	1966 [YR1966]
Afghanistan	AFG	..	..	..	..	..	..	..
Albania	ALB	..	..	..	..	..	..	..
Algeria	DZA	..	..	..	..	..	..	..
American Samoa	ASM	..	..	..	..	..	..	..
Andorra	AND	..	..	..	..	..	..	..
Angola	AGO	..	..	..	..	..	..	..
Antigua and Barbuda	ATG	..	..	..	..	..	..	..
Argentina	ARG	..	..	..	..	..	..	..
Armenia	ARM	..	..	..	..	..	..	..
Aruba	ABW	..	..	..	..	..	..	..
Australia	AUS	7.960458	8.14256	8.116545	8.168574	8.402706	8.688866	8.975026
Austria	AUT	17.82417	18.45554	19.26423	19.78605	20.55149	21.56486	22.00798
Azerbaijan	AZE	..	..	..	..	..	..	..
Bahamas, The	BHS	..	..	..	..	..	..	13.96234
Bahrain	BHR	..	..	..	..	..	17.96565	18.34913
Bangladesh	BGD	..	..	..	..	..	..	..
Barbados	BRB	..	..	..	..	..	..	6.138362
Belarus	BLR	..	..	..	..	..	..	..
Belgium	BEL	15.59608	15.7509	15.97214	16.31522	16.99536	17.68626	18.42454
Belize	BLZ	..	..	..	..	..	..	..
Benin	BEN	..	..	..	..	..	..	..
Bermuda	BMU	..	..	..	..	..	..	..
Bhutan	BTN	..	..	..	..	..	..	..
Bolivia	BOL	2.24E-05	2.41E-05	2.55E-05	2.54E-05	2.79E-05	2.87E-05	3.07E-05
Bosnia and Herzegovina	BIH	..	..	..	..	..	..	..
Botswana	BWA	..	..	..	..	..	..	..
Brazil	BRA	..	..	..	..	..	..	..
British Virgin Islands	VGB	..	..	..	..	..	..	..
Brunei Darussalam	BRN	..	..	..	..	..	..	..
Bulgaria	BGR	..	..	..	..	..	..	..
Burkina Faso	BFA	10.7133	12.70192	12.91479	13.63469	13.88626	13.78486	14.11075
Burundi	BDI	..	..	..	..	..	1.468451	1.533604
Cabo Verde	CPV	..	..	..	..	..	..	..
Cambodia	KHM	..	..	..	..	..	..	..
Cameroon	CMR	..	..	..	..	..	..	..
Canada	CAN	13.3443	13.48025	13.62335	13.84516	14.1099	14.43904	14.98998
Cayman Islands	CYM	..	..	..	..	..	..	..
Central African Republic	CAF	..	..	..	..	..	..	..
Chad	TCD	..	..	..	..	..	..	..
Channel Islands	CHI	..	..	..	..	..	..	..
Chile	CHL	..	..	..	..	..	..	..
China	CHN	..	..	..	..	..	..	..

Colombia	COL	0.057595	0.062366	0.065295	0.082504	0.096589	0.103921	0.121305
Comoros	COM	..	..	..	..	..	..	..
Congo, Dem	COD	..	..	..	3.55E-14	4.8E-14	4.67E-14	5.41E-14
Congo, Rep	COG	..	..	..	..	..	..	..
Costa Rica	CRI	0.249246	0.255305	0.262141	0.269826	0.278795	0.276941	0.277448
Cote d'Ivoire	CIV	5.558837	6.204579	6.12136	6.179113	6.217312	6.379657	6.647048
Croatia	HRV	..	..	..	..	..	..	..
Cuba	CUB	..	..	..	..	..	..	..
Curacao	CUW	..	..	..	..	..	..	..
Cyprus	CYP	13.94161	13.85582	13.87012	14.1418	14.0989	14.1275	14.199
Czech Rep	CZE	..	..	..	..	..	..	..
Denmark	DNK	8.245702	8.530313	9.159664	9.718865	10.01945	10.56551	11.31196
Djibouti	DJI	..	..	..	..	..	..	..
Dominica	DMA	..	..	..	..	7.977512	..	8.375723
Dominican	DOM	0.454581	0.436852	0.476855	0.517767	0.528677	0.518677	0.52004
Ecuador	ECU	0.011759	0.012228	0.012579	0.013326	0.013863	0.014289	0.015068
Egypt, Arab	EGY	1.208721	1.217104	1.180554	1.189368	1.232911	1.415863	1.543806
El Salvador	SLV	1.92777	1.876058	1.877862	1.907326	1.940848	1.949717	1.926567
Equatorial	GNQ	..	..	..	..	..	..	..
Eritrea	ERI	..	..	..	..	..	..	..
Estonia	EST	..	..	..	..	..	..	..
Eswatini	SWZ	..	..	..	..	..	1.558134	1.607644
Ethiopia	ETH	..	..	..	..	..	..	..
Faroe Islan	FRO	..	..	..	..	..	..	..
Fiji	FJI	..	..	..	..	..	..	..
Finland	FIN	8.136875	8.27447	8.637222	9.06877	10.00066	10.49476	10.90129
France	FRA	10.43359	10.68405	11.25364	11.81623	12.19567	12.52533	12.85124
French Poly	PYF	..	..	..	..	..	..	..
Gabon	GAB	..	..	9.31764	9.984628	10.31696	10.56853	10.95366
Gambia, The	GMB	..	2.276888	2.31759	2.424573	2.314603	2.342795	2.348396
Georgia	GEO	..	..	..	..	..	..	..
Germany	DEU	24.64607	25.21138	25.92821	26.69749	27.32107	28.2069	29.20347
Ghana	GHA	..	..	..	..	0.00131	0.001657	0.001876
Gibraltar	GIB	..	..	..	..	..	..	..
Greece	GRC	1.12135	1.144938	1.139495	1.175784	1.183042	1.221147	1.281024
Greenland	GRL	..	..	..	..	..	..	..
Grenada	GRD	..	..	..	..	..	..	..
Guam	GUM	..	..	..	..	..	..	..
Guatemala	GTM	1.755259	1.745546	1.781375	1.784073	1.780619	1.766374	1.778461
Guinea	GIN	..	..	..	..	..	..	..
Guinea-Biss	GNB	..	..	..	..	..	..	..
Guyana	GUY	..	..	..	..	..	..	..
Haiti	HTI	0.852971	0.885211	0.880299	0.918212	1.00234	1.025032	1.110129
Honduras	HND	1.56193	1.586343	1.603668	1.653085	1.727012	1.78204	1.813835
Hong Kong	HKG	..	..	..	..	..	..	..
Hungary	HUN	..	..	..	..	..	..	..
Iceland	ISL	0.041612	0.043572	0.048372	0.054626	0.065139	0.069905	0.077375

India	IND	2.527487	2.570333	2.663693	2.74217	3.108394	3.402906	3.770483
Indonesia	IDN	0.000278	0.000316	0.000731	0.001796	0.003755	0.015272	0.1888
Iran, Islami	IRN	0.141434	0.145907	0.14696	0.147506	0.153133	0.156432	0.155825
Iraq	IRQ	59.05985	59.60099	60.37125	62.75891	62.70234	62.41668	63.65454
Ireland	IRL	5.073265	5.213135	5.435409	5.568773	5.942844	6.239281	6.429847
Isle of Man	IMN	..	..	..	..	..	..	..
Israel	ISR	0.000886	0.000946	0.001035	0.001103	0.00116	0.001249	0.001349
Italy	ITA	4.147836	4.232895	4.431466	4.76182	5.043354	5.271277	5.394972
Jamaica	JAM	0.112899	0.120461	0.122157	0.12431	0.126813	0.13015	0.132626
Japan	JPN	18.97099	19.98944	21.35581	22.78812	23.65416	25.22858	26.50031
Jordan	JOR	..	..	..	..	..	..	..
Kazakhstan	KAZ	..	..	..	..	..	..	..
Kenya	KEN	0.741244	0.759457	0.783133	0.788596	0.787813	0.816006	0.856923
Kiribati	KIR	..	..	..	..	..	..	..
Korea, Den	PRK	..	..	..	..	..	..	..
Korea, Rep	KOR	1.476946	1.597991	1.703751	2.056285	2.662125	3.022795	3.363203
Kosovo	XKX	..	..	..	..	..	..	..
Kuwait	KWT	..	..	..	..	..	..	..
Kyrgyz Rep	KGZ	..	..	..	..	..	..	..
Lao PDR	LAO	..	..	..	..	..	..	..
Latvia	LVA	..	..	..	..	..	..	..
Lebanon	LBN	..	..	..	..	..	..	..
Lesotho	LSO	..	..	..	..	..	..	..
Liberia	LBR	..	..	..	..	..	..	..
Libya	LYB	..	..	..	..	10.78199	12.01383	13.48467
Liechtenste	LIE	..	..	..	..	..	..	..
Lithuania	LTU	..	..	..	..	..	..	..
Luxembour	LUX	17.08906	17.1715	17.32535	17.82368	18.37557	18.98815	19.62078
Macao SAR	MAC	..	..	..	..	..	..	..
Madagasca	MDG	..	..	..	..	0.566257	0.590051	0.609001
Malawi	MWI	..	..	..	..	..	..	..
Malaysia	MYS	21.30924	21.2708	21.29386	21.95509	21.86667	21.84361	22.05505
Maldives	MDV	..	..	..	..	..	..	..
Mali	MLI	..	..	..	..	..	..	..
Malta	MLT	20.90078	21.42567	21.46181	21.86451	22.34121	22.69916	22.81791
Marshall Is	MHL	..	..	..	..	..	..	..
Mauritania	MRT	..	..	..	..	..	..	..
Mauritius	MUS	..	..	..	2.913208	2.96843	3.021433	3.097117
Mexico	MEX	0.012905	0.013112	0.013269	0.013348	0.01366	0.014148	0.014744
Micronesia	FSM	..	..	..	..	..	..	..
Moldova	MDA	..	..	..	..	..	..	..
Monaco	MCO	..	..	..	..	..	..	..
Mongolia	MNG	..	..	..	..	..	..	..
Montenegr	MNE	..	..	..	..	..	..	..
Morocco	MAR	9.942806	10.11811	10.6338	11.2399	11.69192	12.09912	11.97649
Mozambiq	MOZ	..	..	..	..	..	..	..
Myanmar	MMR	0.155438	0.15521	0.152707	0.148611	0.147928	0.1741	0.218478

Namibia	NAM	..	..	..	..	..	..	..
Nauru	NRU	..	..	..	..	..	..	..
Nepal	NPL	..	..	..	..	2.969465	3.221034	3.684508
Netherland	NLD	16.81597	17.03586	17.45003	18.01605	19.06526	19.81034	20.95184
New Caledoni	NCL	..	..	..	..	..	..	..
New Zealand	NZL	4.992165	5.081909	5.218148	5.320867	5.505762	5.69282	5.849684
Nicaragua	NIC	..	..	..	..	..	..	..
Niger	NER	..	..	..	11.66688	11.78402	12.29943	13.59965
Nigeria	NGA	0.065887	0.070025	0.073712	0.071726	0.07234	0.075309	0.082606
North Macedonia	MKD	..	..	..	..	..	..	..
Northern Mariana	MNP	..	..	..	..	..	..	..
Norway	NOR	9.027832	9.222397	9.708811	9.948775	10.53247	10.97349	11.33019
Oman	OMN	..	..	..	..	..	..	..
Pakistan	PAK	2.05492	2.08863	2.077843	2.108106	2.196216	2.318515	2.486089
Palau	PLW	..	..	..	..	..	..	..
Panama	PAN	25.70697	25.86476	26.06858	26.18586	26.81786	26.94165	26.99378
Papua New Guinea	PNG	..	..	..	..	..	..	..
Paraguay	PRY	0.410927	0.486897	0.493804	0.504163	0.511069	0.530793	0.546044
Peru	PER	4.08E-08	4.32E-08	4.61E-08	4.88E-08	5.36E-08	6.24E-08	6.79E-08
Philippines	PHL	1.128957	1.146971	1.213457	1.281721	1.386605	1.422159	1.498955
Poland	POL	..	..	..	..	..	..	..
Portugal	PRT	1.18281	1.201132	1.233107	1.258035	1.301373	1.345944	1.41377
Puerto Rico	PRI	..	..	..	..	..	..	..
Qatar	QAT	..	..	..	..	..	..	..
Romania	ROU	..	..	..	..	..	..	..
Russian Federation	RUS	..	..	..	..	..	..	..
Rwanda	RWA	..	..	..	..	..	..	2.300985
Samoa	WSM	..	3.628395	3.724724	3.750412	3.949492	4.032977	4.148572
San Marino	SMR	..	..	..	..	..	..	..
Sao Tome and Principe	STP	..	..	..	..	..	..	..
Saudi Arabia	SAU	..	..	..	19.94371	20.50214	20.58191	20.90101
Senegal	SEN	..	..	..	..	..	..	..
Serbia	SRB	..	..	..	..	..	..	..
Seychelles	SYC	..	..	..	..	..	..	..
Sierra Leone	SLE	..	..	..	..	..	..	..
Singapore	SGP	27.51917	27.62925	27.74518	28.35702	28.84648	28.89801	29.47764
Sint Maarten	SXM	..	..	..	..	..	..	..
Slovak Republic	SVK	..	..	..	..	..	..	..
Slovenia	SVN	..	..	..	..	..	..	..
Solomon Islands	SLB	..	..	..	..	..	..	..
Somalia	SOM	..	..	..	..	..	..	..
South Africa	ZAF	1.772403	1.809665	1.832218	1.856733	1.903801	1.981267	2.050398
South Sudan	SSD	..	..	..	..	..	..	..
Spain	ESP	2.858811	2.881946	3.046404	3.312772	3.543979	4.012285	4.262666
Sri Lanka	LKA	1.487669	1.504546	1.527168	1.561879	1.611791	1.615382	1.612868
St. Kitts and Nevis	KNA	..	..	..	..	..	..	..
St. Lucia	LCA	..	..	..	..	..	8.200929	8.40423

St. Martin (MAF)	..	..	..	..	..	..	..
St. Vincent VCT	..	..	..	..	..	..	..
Sudan SDN	0.001276	0.001387	0.00141	0.001476	0.001535	0.001497	0.001523
Suriname SUR	0.008154	0.008293	0.008467	0.008642	0.009007	0.009182	0.009617
Sweden SWE	9.210913	9.409682	9.858166	10.14127	10.48482	11.0104	11.71559
Switzerland CHE	24.04119	24.48484	25.54161	26.42029	27.23418	28.16409	29.5092
Syrian Arab SYR	1.453447	1.481919	1.424922	1.452233	1.530604	1.471232	1.527041
Tajikistan TJK	..	..	..	..	..	..	..
Tanzania TZA	..	..	..	..	..	0.098098	0.107689
Thailand THA	10.21121	10.96551	11.37081	11.37081	11.28074	11.29951	11.75546
Timor-Leste TLS	..	..	..	..	..	..	..
Togo TGO	..	..	..	..	..	..	9.575043
Tonga TON	..	..	..	..	..	..	..
Trinidad and TTO	2.296992	2.33197	2.401541	2.491868	2.513392	2.558171	2.662912
Tunisia TUN	..	..	..	..	..	..	..
Turkey TUR	5.4E-05	5.57E-05	5.78E-05	6.15E-05	6.22E-05	6.5E-05	7.05E-05
Turkmenistan TKM	..	..	..	..	..	..	..
Turks and Caicos TCA	..	..	..	..	..	..	..
Tuvalu TUV	..	..	..	..	..	..	..
Uganda UGA	..	..	..	..	..	..	..
Ukraine UKR	..	..	..	..	..	..	..
United Arab Emirates ARE	..	..	..	..	..	..	..
United Kingdom GBR	6.273284	6.489555	6.761889	6.898381	7.124757	7.464877	7.756725
United States USA	13.56306	13.70828	13.87261	14.04459	14.22421	14.44969	14.88535
Uruguay URY	3.75E-06	4.6E-06	5.11E-06	6.19E-06	8.81E-06	1.38E-05	2.39E-05
Uzbekistan UZB	..	..	..	..	..	..	..
Vanuatu VUT	..	..	..	..	..	..	..
Venezuela, Bolivarian VEN	..	..	..	..	..	..	..
Vietnam VNM	..	..	..	..	..	..	..
Virgin Islands VIR	..	..	..	..	..	..	..
West Bank and Gaza PSE	..	..	..	..	..	..	..
Yemen, Republic of YEM	..	..	..	..	..	..	..
Zambia ZMB	..	..	..	..	..	..	..
Zimbabwe ZWE	..	..	..	..	..	..	..
Arab World ARB	..	..	..	..	..	..	..
Caribbean Region CSS	..	..	..	..	..	..	..
Central Europe and the Baltics CEB	..	..	..	..	..	..	..
Early-demographic transition EAR	..	..	..	..	..	..	..
East Asia & Pacific (excluding high income) EAS	..	..	..	..	..	..	..
East Asia & Pacific (low & middle income) EAP	..	..	..	..	..	..	..
East Asia & Pacific (total) TEA	..	..	..	..	..	..	..
Euro area EMU	..	..	..	..	..	..	..
Europe & Central Asia ECS	..	..	..	..	..	..	..
Europe & Central Asia (excluding high income) ECA	..	..	..	..	..	..	..
Europe & Central Asia (total) TEC	..	..	..	..	..	..	..
European Union EUU	..	..	..	..	..	..	..
Fragile and conflict affected situations FCS	..	..	..	..	..	..	..



Heavily ind HPC	..	..	..	..	..	..	..
High incom HIC	..	..	..	..	..	..	..
IBRD only IBD	..	..	..	..	..	..	..
IDA & IBRD IBT	..	..	..	..	..	..	..
IDA blend IDB	..	..	..	..	..	..	..
IDA only IDX	..	..	..	..	..	..	..
IDA total IDA	..	..	..	..	..	..	..
Late-demo LTE	..	..	..	..	..	..	..
Latin Amer LCN	..	..	..	..	..	..	..
Latin Amer LAC	..	..	..	..	..	..	..
Latin Amer TLA	..	..	..	..	..	..	..
Least devel LDC	..	..	..	..	..	..	..
Low & mid LMY	..	..	..	..	..	..	..
Low incom LIC	..	..	..	..	..	..	..
Lower mid LMC	..	..	..	..	..	..	..
Middle Eas MEA	..	..	..	..	..	..	..
Middle Eas MNA	..	..	..	..	..	..	..
Middle Eas TMN	..	..	..	..	..	..	..
Middle inc MIC	..	..	..	..	..	..	..
North Ame NAC	..	..	..	..	..	..	..
Not classifi INX	..	..	..	..	..	..	..
OECD memr OED	..	..	..	..	..	..	..
Other smal OSS	..	..	..	..	..	..	..
Pacific islar PSS	..	..	..	..	..	..	..
Post-demo PST	..	..	..	..	..	..	..
Pre-demog PRE	..	..	..	..	..	..	..
Small state SST	..	..	..	..	..	..	..
South Asia SAS	..	..	..	..	..	..	..
South Asia TSA	..	..	..	..	..	..	..
Sub-Saharan SSF	..	..	..	..	..	..	..
Sub-Saharan SSA	..	..	..	..	..	..	..
Sub-Saharan TSS	..	..	..	..	..	..	..
Upper mid UMC	..	..	..	..	..	..	..
World WLD	..	..	..	..	..	..	..

Data from database: World Development Indicators

Last Updated: 05/28/2020

FP.CPI.TOT Code

CC BY-4.0 License Type

Consumer | Indicator Name

Consumer | Long definition

International Source

Financial Sector Topic

Annual Periodicity

2010 Base Period

Consumer | Statistical concept and methodology

A general a Development relevance

Consumer | Limitations and exceptions

<https://dat> License URL





4.262991	4.401002	4.375294	4.598095	4.739714	5.045051	5.899724	7.58697	8.023102
0.388928	0.890034	1.02781	1.155253	1.204164	1.282696	1.680869	2.361483	2.814078
0.158314	0.159407	0.165135	0.167887	0.174931	0.186123	0.2044	0.233524	0.2636
65.74938	67.19355	71.04996	74.14461	76.81077	80.79413	84.74576	91.27119	99.95763
6.634529	6.945081	7.460316	8.072599	8.796044	9.553016	10.64348	12.45033	15.04944
..	..	..	..	..	..	..	..	..
0.001372	0.0014	0.001434	0.001522	0.001704	0.001924	0.002309	0.003226	0.004494
5.596384	5.667868	5.818477	6.107558	6.400211	6.768192	7.499063	8.935866	10.45054
0.136636	0.144737	0.15386	0.176521	0.18594	0.196032	0.230696	0.293349	0.344322
27.55763	29.02905	30.55302	32.66857	34.75783	36.44134	40.67167	50.11655	55.99586
..	..	7.663902	8.116073	8.506932	9.158363	10.17766	12.15495	13.61109
..	..	..	..	..	..	..	..	..
0.871998	0.875196	0.873695	0.892816	0.926566	0.9806	1.071612	1.262465	1.503851
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
3.729202	4.130905	4.642706	5.383233	6.1106	6.824867	7.044698	8.756855	10.9679
..	..	..	..	..	..	..	..	..
..	..	..	..	..	20.06106	21.71944	24.54136	26.60096
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..	..	..	..	..	..	4.187223	4.749267	5.42423
..	..	..	..	..	..	..	..	..
14.46853	14.52513	15.94656	15.10197	14.63323	14.59649	15.75996	16.93541	18.47979
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
20.04579	20.57208	21.0441	22.0204	23.04925	24.25373	25.72547	28.17984	31.20007
..	..	..	..	..	..	..	..	..
0.613965	0.619838	0.643571	0.662097	0.697757	0.736988	0.782093	0.954943	1.033164
..	..	..	..	..	..	..	..	..
23.06419	23.02767	22.93348	23.35636	23.73311	24.50005	27.0873	31.78126	33.20751
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
22.97623	23.44433	23.99159	24.88303	25.46127	26.32001	28.34384	30.40036	33.07305
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
3.155297	3.375445	3.453594	3.506844	3.517938	3.707764	4.206487	5.431233	6.231705
0.015189	0.015543	0.016067	0.016871	0.017793	0.018673	0.020929	0.025907	0.029778
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11.88687	11.93876	12.29094	12.44816	12.96543	13.45282	14.00231	16.46067	17.76408
..	..	..	..	..	..	..	..	..
0.220299	0.225533	0.215747	0.207099	0.211423	0.227581	0.284932	0.356768	0.469705

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3.581035	3.623287	3.770305	4.344796	4.257922	4.61512	5.142618	6.161182	6.628569	
21.67579	22.4823	24.15089	25.03697	26.90915	29.00882	31.33597	34.34153	37.85037	
..	..	..	..	..	..	..	..	..	..
6.203995	6.471507	6.790244	7.232776	7.984086	8.537607	9.234845	10.26078	11.76758	
..	..	..	..	..	..	..	..	..	..
13.65822	13.25898	14.67048	14.83448	15.45628	16.96345	18.96259	19.60685	21.39417	
0.079528	0.079149	0.087188	0.099182	0.115051	0.119029	0.125459	0.141361	0.189373	
..	..	..	..	..	..	..	..	..	..
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11.84903	12.25762	12.62081	13.96331	14.83236	15.90896	17.08932	18.69773	20.88335	
..	..	..	..	..	..	..	..	..	..
2.655426	2.659957	2.74473	2.891569	3.02836	3.185327	3.920184	4.965425	6.003422	
..	..	..	..	..	..	..	..	..	..
27.36516	27.80822	28.31643	29.18951	29.74984	31.35917	33.50929	38.96061	41.2519	
..	..	..	..	5.504704	5.839115	6.326281	7.791909	8.609358	
0.553499	0.557418	0.569942	0.565043	0.593031	0.647474	0.73033	0.914617	0.975833	
7.46E-08	8.88E-08	9.44E-08	9.91E-08	1.06E-07	1.13E-07	1.24E-07	1.45E-07	1.8E-07	
1.592699	1.630268	1.662148	1.901189	2.308107	2.497465	2.911546	3.906235	4.170351	
..	..	..	0.02104	0.021272	0.021251	0.021777	0.023313	0.023839	
1.491901	1.582629	1.721628	1.83147	2.050274	2.268902	2.563284	3.206226	3.695871	
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2.334417	2.40823	2.419908	2.432368	2.444252	2.519833	2.756034	3.612838	4.704856	
4.127165	4.197807	4.371199	4.491075	4.70514	5.058346	5.653423	7.066082	7.687031	
..	..	..	..	..	..	..	..	..	..
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21.33977	21.67881	22.43668	22.47656	23.48239	24.49945	28.54524	34.66448	46.65011	
10.95362	10.96001	11.40089	11.72128	12.17586	12.92527	14.38393	16.77182	22.08067	
..	..	..	..	..	..	..	..	..	..
..	..	..	6.126871	7.021351	8.491692	10.04056	12.49293	14.81804	
..	..	..	..	..	..	..	..	..	..
30.46302	30.66267	30.57895	30.72064	31.26163	31.91211	38.1786	46.71855	47.90358	
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..	..	..	..	2.459637	2.6288	2.713676	3.22529	3.550059	
..	..	..	..	..	..	..	..	..	..
2.122961	2.165126	2.235238	2.346818	2.486628	2.646411	2.896073	3.235612	3.670023	
..	..	..	..	..	..	..	..	..	..
4.53512	4.759806	4.862634	5.14132	5.564804	6.02514	6.713013	7.765639	9.08217	
1.648178	1.74477	1.874877	1.984875	2.03778	2.167168	2.375794	2.668085	2.844872	
..	..	..	..	..	..	..	..	..	..
8.673769	9.01807	9.221372	10.45692	11.3344	12.22761	13.87108	18.61785	21.92117	











0.453541	0.608157	0.71467	0.887611	1.123544	1.432776	1.786676	2.134848	2.484166	
..	..	..	..	..	..	..	..	..	..
5.54E-13	9.37E-13	1.39E-12	2.8E-12	4.11E-12	5.56E-12	7.6E-12	1.34E-11	2.04E-11	
..	..	..	..	..	..	..	..	..	..
0.616164	0.6418	0.680558	0.742917	0.877706	1.202828	2.286736	3.032806	3.39516	
13.16722	16.77792	18.99982	22.10484	25.35446	27.58546	29.6773	31.35122	32.69455	
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23.11678	24.81042	26.65539	29.17798	33.12213	36.68101	39.04062	41.01206	43.46948	
..	..	..	..	..	..	..	..	..	..
24.75067	27.454	30.25806	33.16617	37.24738	41.63042	45.84377	49.01076	52.09392	
..	..	..	82.38569	92.31977	97.59803	95.24522	96.10418	97.91547	
22.46313	24.59795	26.49509	..	41.49932	47.0049	49.07058	51.106	52.23953	
0.997971	1.126246	1.165415	1.272328	1.485483	1.597111	1.71923	1.815999	2.181954	
0.037952	0.042891	0.047888	0.052805	0.059695	0.069477	0.080773	0.119895	0.157338	
2.416752	2.724457	3.026275	3.326008	4.018457	4.433053	5.090165	5.908657	6.915277	
3.325644	3.718744	4.212412	4.804509	5.638907	6.473305	7.232551	8.195516	9.138588	
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2.96119	3.57727	3.881968	4.520688	5.365332	6.441392	7.137541	7.963177	8.993591	
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18.47613	19.77062	20.97823	22.61595	25.89365	28.78873	30.81302	32.87879	34.61847	
26.09766	29.17545	31.45095	33.79938	37.71829	41.98262	46.00663	49.85568	53.3793	
25.75831	28.20395	30.81297	34.09355	38.71751	43.87252	49.12777	53.77504	57.90163	
..	..	..	..	..	..	..	..	..	..
24.1336	27.47672	30.43436	32.85472	36.90911	40.1226	46.81737	51.81369	54.8485	
4.923416	5.533414	6.023417	6.392589	6.828859	7.234782	8.020179	8.873229	10.83408	
..	..	..	..	..	..	..	..	..	..
44.63568	46.30245	47.56127	49.48447	52.17694	55.48718	58.39528	60.31848	61.76962	
0.006962	0.015069	0.026083	0.040283	0.060453	0.130883	0.160064	0.356742	0.498245	
..	..	..	..	..	..	..	..	..	..
2.787044	3.131795	3.525538	4.19871	5.23478	6.517618	7.885737	9.477038	11.2262	
..	..	..	..	..	..	..	..	..	..
17.30796	20.50247	24.22067	29.27864	35.66766	42.36871	45.67887	48.46316	51.20598	
..	..	..	..	..	..	..	..	..	..
3.163746	3.553664	3.848191	4.284706	4.748476	5.291373	5.307638	5.548534	5.737559	
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2.237968	2.383255	2.319536	2.623255	3.089625	3.425107	3.677169	4.053845	4.313374	
2.808354	3.04523	3.22028	3.611072	4.263288	4.664279	5.083254	5.502765	5.762846	
..	..	..	..	..	28.98335	32.16295	35.34256	38.39988	
2.571075	2.671575	2.796796	3.047848	3.330867	3.486132	3.724437	3.995572	4.333912	
0.507353	0.661166	0.950426	1.372838	2.176338	3.303534	4.963335	9.130058	11.9469	

7.410622	8.026258	8.228764	8.745175	9.737409	11.01423	11.88334	13.29366	14.39955
3.372072	3.744756	4.048552	4.705744	5.554446	6.235749	6.824742	7.630044	8.427767
0.293272	0.373299	0.417057	0.460795	0.555921	0.690473	0.819521	0.981296	1.104353
112.7754	123.1144	128.7924	..	..	..	..	..	..
17.75619	20.14834	21.70201	24.58739	29.05109	34.96982	40.96614	45.24613	49.16042
..	..	..	..	..	..	..	..	..
0.005901	0.007943	0.011958	0.021323	0.049262	0.106799	0.235347	0.57884	2.73916
12.18681	14.27442	16.00077	18.36865	22.23786	26.23384	30.55729	35.03289	38.81451
0.378043	0.42035	0.567051	0.731946	0.931827	1.050539	1.119301	1.24894	1.596329
61.24493	66.24363	69.0322	71.58767	77.15618	80.94621	83.16498	84.74488	86.66149
15.17637	17.38703	18.59048	21.23897	23.59886	25.41597	27.30388	28.67458	29.77783
..	..	..	..	..	..	..	..	..
1.676027	1.924431	2.250271	2.429828	2.766558	3.087563	3.725661	4.150304	4.577126
..	..	..	..	..	..	..	..	..
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12.64898	13.92611	15.93986	18.8606	24.27314	29.45586	31.57398	32.65401	33.39654
..	..	..	..	..	..	..	..	..
27.99353	30.76196	33.4351	35.79227	38.27204	41.09452	44.29036	46.38005	46.92616
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6.043273	7.051793	8.002627	9.283332	10.79418	12.13409	13.60716	15.98737	17.7434
..	..	..	..	..	..	..	..	..
19.49233	20.7165	26.80296	25.18432	27.63583	30.73097	33.8836	37.47703	42.15327
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
34.25685	36.55394	37.68516	39.39852	41.88059	45.26159	49.49674	53.78774	57.24944
..	..	..	..	..	..	..	..	..
1.084686	1.118408	1.191423	1.358885	1.606445	2.097023	2.763661	3.297831	3.622886
..	..	..	..	0.471557	0.52727	0.579054	0.65724	0.788861
34.0821	35.71403	37.44975	38.81834	41.40943	45.42615	48.06945	49.85006	51.79285
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
33.25546	36.59443	38.31712	41.05568	47.52082	52.99035	56.07346	55.57945	55.33351
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
7.039068	7.684727	8.341397	9.548095	13.55825	15.51899	17.29059	18.25704	19.60609
0.034491	0.044515	0.052286	0.061798	0.078083	0.099894	0.158745	0.320467	0.530208
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..	..	..	..	..	..	..	..	..
19.27441	21.70241	23.81102	25.7948	28.22167	31.74727	35.08957	37.2679	41.90685
..	..	..	..	..	..	..	..	..
0.574846	0.568197	0.533851	0.564132	0.567563	0.569371	0.599574	0.633451	0.66415

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6.422206	7.05793	7.576412	7.846546	8.998772	10.00167	11.17172	12.55447	12.91175	
41.1928	43.82885	45.6311	47.54729	50.64426	54.05714	57.25251	58.82171	60.76379	
..	..	..	..	..	..	..	..	..	..
13.7571	15.73586	17.61734	20.03084	23.46624	27.07304	31.44904	33.75774	35.84102	
..	..	..	..	..	..	..	..	..	..
26.42815	32.57298	35.86064	38.46695	42.43107	52.15347	58.2251	56.77552	61.52447	
0.23539	0.270905	0.329717	0.368326	0.405056	0.48936	0.52703	0.649365	0.765086	
..	..	..	..	..	..	..	..	..	..
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22.79657	24.87193	26.9019	28.1151	31.17365	35.42666	39.44439	42.78346	45.44385	
..	..	..	..	..	..	..	..	..	..
6.433167	7.085037	7.519966	8.141645	9.113613	10.1963	10.79824	11.48523	12.18436	
..	..	..	..	..	..	..	..	..	..
42.88135	44.84769	46.73153	50.46482	57.43295	61.6269	64.24639	65.59739	66.63557	
9.268546	9.68828	10.2502	10.84118	12.1491	13.12762	13.85424	14.94902	16.05832	
1.019498	1.114921	1.233774	1.581218	1.936159	2.18737	2.299365	2.608256	3.138031	
2.4E-07	3.31E-07	5.22E-07	8.71E-07	1.39E-06	2.43E-06	4E-06	8.44E-06	1.77E-05	
4.553991	5.004779	5.371856	6.313721	7.462851	8.439186	9.301816	10.23473	15.38679	
0.024891	0.026111	0.028226	0.03021	0.033135	0.039472	0.080349	0.100866	0.116401	
4.477249	5.865946	7.100069	8.654929	10.02825	11.93767	14.52567	18.01223	23.12494	
..	..	..	..	..	..	..	..	..	..
..	..	..	31.15254	33.27091	36.10579	38.16382	39.21089	39.64416	
..	..	..	..	..	..	..	..	..	..
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5.041999	5.730492	6.490959	7.508308	8.052615	8.572062	9.649153	10.28532	10.8376	
8.063979	9.24219	9.432455	10.4813	13.94508	16.80475	19.87938	23.15156	25.89735	
..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..
61.37226	68.36809	67.28541	68.01314	70.84879	72.83184	73.57548	73.71632	72.56706	
22.31982	24.85102	25.70084	28.18183	30.64183	32.45375	38.09303	42.51829	47.52866	
..	..	..	..	..	..	..	..	..	..
17.02129	19.56754	21.87323	24.60304	27.94206	30.89743	30.61545	32.46849	33.79784	
..	..	..	..	..	..	..	..	..	..
47.02125	48.50898	50.8726	52.94641	57.46111	62.1626	64.59706	65.36991	67.07017	
..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..
..	..	..	..	0.000424	0.000605	0.000787	0.001103	0.001695	
3.701125	4.020043	4.27182	4.615915	5.220181	6.076223	6.865125	7.293146	8.098834	
..	..	..	..	..	..	..	..	..	..
4.074475	4.528859	5.033175	5.702267	6.481211	7.46987	8.563387	9.616959	10.72546	
..	..	..	..	..	..	..	..	..	..
10.68289	13.30427	15.93501	18.43047	21.2986	24.39741	27.91429	31.3126	34.84474	
2.882695	2.918005	3.272297	3.623478	4.570851	5.392187	5.975931	6.810434	7.943571	
..	..	..	31.65461	37.26908	41.17352	43.61397	44.6134	45.82461	
24.04075	26.17214	29.01902	31.74392	37.92692	43.6633	45.67796	46.35082	46.90957	









1985	1986	1987	1988	1989	1990	1991	1992	1993
[YR1985]	[YR1986]	[YR1987]	[YR1988]	[YR1989]	[YR1990]	[YR1991]	[YR1992]	[YR1993]
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	5.11442	16.67329	30.84637
9.51856	10.69616	11.49209	12.17145	13.30392	15.51936	19.53677	25.72399	31.00779
..	..	..	..	..	..	..	..	..
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..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	0.46203
41.4647	41.91001	43.43681	44.79285	46.58082	49.29959	52.03846	54.05411	56.87333
40.81686	44.51093	48.30905	51.79501	55.69719	59.78148	61.68054	62.30489	63.3975
59.03332	60.04011	60.88184	62.04817	63.64178	65.71769	67.91097	70.64157	73.20712
..	..	..	..	..	..	0.043035	0.038461	0.472297
48.69195	51.33777	54.29301	56.68321	59.73711	62.52642	66.97498	70.81814	72.74644
79.54695	77.72048	76.36425	76.59597	77.73411	78.45652	79.05625	78.91995	80.92362
..	24.28	26.67758	28.65513	30.38747	32.24922	34.29942	35.54589	36.61753
42.54421	43.11008	44.53777	46.70179	49.59269	51.11745	54.31614	57.62611	58.26774
..	..	..	..	..	..	..	..	..
59.86063	60.63545	61.57735	62.29222	64.22767	66.44244	68.57878	70.24384	72.17865
..	..	..	..	..	..	..	..	..
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..	..	..	..	..	..	..	..	..
21.67835	23.83553	25.35355	27.91021	30.36034	33.39637	37.49768	43.48985	48.36349
3.9031	14.68877	16.8302	19.52338	22.48576	26.33504	31.98314	35.84041	38.89684
..	..	..	..	..	..	..	..	..
9.993718	10.99326	12.07081	13.07893	14.59282	16.25587	18.16837	21.10576	24.13039
3.23E-08	7.99E-08	2.62E-07	1.91E-06	2.93E-05	0.000893	0.004756	0.050033	1.014369
..	..	..	..	..	..	..	..	..
72.33502	73.62348	74.54146	75.43062	76.41446	78.04871	79.29749	80.31212	83.72675
0.024835	0.025505	0.026201	0.026822	0.028535	0.035327	0.154889	0.2963	0.51224
50.2512	48.93877	47.62634	49.65313	49.4139	49.16471	50.22794	49.22784	49.50029
7.71164	7.840863	8.398602	8.77543	9.798785	10.48491	11.42823	11.63661	12.76296
34.66083	38.42992	39.908	41.53388	43.42581	48.05218	52.6416	54.28227	57.42434
..	..	..	..	..	..	..	..	..
38.09072	41.05038	46.44461	47.22596	46.4394	46.94995	46.97814	46.9706	45.46446
54.07127	56.33944	58.79365	61.16199	64.21007	67.27962	71.06468	72.12364	73.4688
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
48.21736	41.92183	39.41707	45.51785	43.83863	43.51498	44.90479	43.50689	39.84016
..	..	..	..	..	..	..	..	..
12.37879	14.78978	17.73012	20.33367	23.79608	29.99174	36.52526	42.15958	47.52555
..	26.04832	27.93261	33.18725	39.24247	40.44027	41.8786	44.53956	51.04682

3.079725	3.660394	4.513646	5.783789	7.279557	9.400662	12.25362	15.56584	19.05902
..	..	..	..	..	..	..	..	..
2.53E-11	3.65E-11	6.53E-11	1.12E-10	2.28E-10	4.13E-10	9.31E-09	3.94E-07	8.22E-06
35.44841	36.9224	37.08617	37.46832	36.79502	37.85805	37.22265	35.75777	37.51836
3.906443	4.368592	5.10449	6.167747	7.185939	8.554582	11.01039	13.40943	14.72101
33.30391	36.52871	39.06501	41.77248	42.21089	41.87073	42.57556	44.37709	45.33773
0.000121	0.000181	0.000422	0.001205	0.018081	0.108486	0.24108	1.747829	27.96527
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
45.65793	46.21422	47.50436	49.13341	50.98352	53.27883	55.96156	59.60479	62.4981
..	..	..	..	..	..	34.8879	38.75575	46.82199
54.53126	56.53702	58.80981	61.47691	64.41103	66.11252	67.69601	69.11495	69.98432
100	118.1476	122.9788	..	..	..	..	..	..
54.19328	55.69673	57.93829	59.63275	63.34102	65.36218	68.9944	72.76965	73.91143
3.171168	3.413413	3.875955	5.576097	7.843222	11.80111	17.35697	18.09621	19.04632
0.201366	0.247741	0.320835	0.507613	0.891614	1.324217	1.970485	3.041263	4.409831
7.752493	9.602571	11.49366	13.52384	16.39926	19.14719	22.92848	26.05533	29.20537
11.17909	14.74913	18.41643	22.05573	25.94505	32.17165	36.80522	40.93274	48.50803
37.87102	31.19041	27.08124	27.76468	29.47669	29.72956	28.71124	27.48276	28.9812
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	11.63778	22.08989
10.83392	12.32218	13.97047	16.81969	18.08893	20.45718	22.28489	23.96925	26.85117
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
36.14895	36.79921	38.88343	43.45548	46.14509	49.925	53.1688	55.76505	58.66851
56.15269	57.79997	60.1773	63.23788	67.4071	71.55234	74.6364	76.81527	78.49803
61.27793	62.83349	64.90002	66.65285	68.98456	71.18813	73.47569	75.21248	76.7953
..	..	..	..	..	..	..	..	..
58.88256	62.58354	61.99138	56.55095	60.36295	65.02619	57.42715	51.94693	52.22419
12.81887	20.06924	24.79136	27.68962	29.98094	33.62896	36.53529	40.00122	42.58682
..	..	..	..	..	..	..	..	..
63.04592	62.96434	63.12169	63.92594	65.70343	67.47511	70.20585	73.75615	77.05642
0.549591	0.684601	0.957175	1.257338	1.574485	2.161123	2.550805	2.807317	3.508019
..	..	..	..	..	..	..	..	..
13.3945	16.47731	19.17907	21.77378	24.74711	29.80381	35.6024	41.25501	47.20038
..	..	..	..	..	..	..	..	..
52.48684	52.77924	52.31882	54.41158	57.45479	59.01999	60.58084	62.86979	64.63555
..	..	..	..	..	..	..	..	..
6.809725	9.324632	10.47373	11.60831	12.93017	18.26023	24.31649	26.7593	29.92217
..	..	..	..	..	..	..	..	..
..	..	1.188563	1.90505	3.444105	4.580728	7.219012	12.24226	18.13179
..	..	..	..	..	..	..	..	..
4.772698	4.929239	4.364868	4.544066	4.858693	5.89243	6.801037	8.117615	10.52903
5.956632	6.215908	6.370507	6.656623	7.312327	9.01775	12.08128	13.13959	14.55192
39.74509	41.09031	43.41387	46.83807	51.60748	56.98835	63.34757	69.4622	75.57683
4.634787	4.880044	5.303354	6.13723	7.189713	9.229405	12.44286	15.38631	18.84272
15.76927	19.25875	22.78267	28.64363	34.58953	39.95462	42.67504	44.35973	46.15313

15.19965	16.52653	17.98106	19.6683	21.05969	22.94901	26.13209	29.21249	31.06074
8.82594	9.339845	10.20646	11.0276	11.73508	12.65267	13.84444	14.88602	16.32579
1.152827	1.365281	1.755361	2.258634	2.763431	2.974217	3.483658	4.382711	5.31196
..	..	..	..	..	0.030568	0.08588	0.15769	0.485199
51.81287	53.79577	55.4954	56.67999	58.99766	60.9548	62.91195	64.84334	65.79616
..	..	..	..	..	..	..	..	..
11.1975	16.5773	19.83914	23.08311	27.74799	32.52011	38.68633	43.3244	48.06971
42.38777	44.85624	46.9857	49.36235	52.45235	55.83899	59.32893	62.45591	65.34558
2.006156	2.309194	2.462812	2.666407	3.048491	3.717944	5.616739	9.958288	12.15608
88.42269	88.94932	89.06156	89.66589	91.70336	94.52646	97.59993	99.31797	100.5525
30.66672	30.66672	30.60538	32.62939	41.01929	47.66119	51.54819	53.60798	55.38597
..	..	..	..	..	..	..	..	..
5.172452	5.303537	5.761639	6.468302	7.360236	8.66902	10.41015	13.25549	19.35021
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
34.2178	35.15878	36.23101	38.82011	41.03292	44.55092	48.70901	51.73515	54.21901
..	..	..	..	..	..	..	..	..
47.62551	48.07967	48.39451	49.10501	50.74612	55.7363	60.785	60.45344	60.6847
..	..	..	..	..	..	..	..	..
..	..	..	1.677125	2.70575	3.67016	4.163487	4.574195	4.86087
..	..	..	..	..	..	1.12999	11.88407	24.83646
..	..	..	..	..	..	..	..	..
20.10697	23.72722	26.51523	29.55291	33.90554	37.85037	44.54159	52.20654	59.06422
..	..	..	..	..	..	..	..	..
46.00542	47.51945	49.58927	52.60774	53.40309	57.91643	64.80622	70.87193	78.71997
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	0.372875	4.178518	21.32933
59.593	59.76854	59.73467	60.59282	62.63538	64.67338	66.69013	68.79365	71.26204
..	..	..	45.60534	49.60536	53.55876	58.68373	63.21054	67.44937
4.005335	4.586002	5.273587	6.689745	7.292692	8.152098	8.852579	10.1373	11.15188
0.871842	0.994308	1.244427	1.666439	1.87385	2.095406	2.359748	2.92022	3.585233
51.97229	52.35533	52.50716	53.84952	55.36441	56.81374	59.28988	62.11636	64.31316
..	..	..	..	..	..	..	..	..
..	..	..	52.59406	52.55373	52.87238	53.82431	50.46432	50.33121
55.20336	56.32283	56.56599	57.09677	57.58077	59.29864	60.80613	61.79922	64.36069
..	..	..	..	..	..	..	..	..
20.89515	22.44836	24.27843	24.59882	27.78011	29.61366	31.28051	34.45292	37.68128
20.91944	21.26098	21.37127	23.32873	26.28449	29.82977	31.91816	33.40028	36.91327
0.836396	1.557647	3.611053	7.733512	9.280823	11.75432	14.41812	16.65407	18.27809
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	0.010014	0.112842	1.933673
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	2.288663	8.425725
..	..	..	..	..	..	..	..	..
45.14568	49.08851	50.41328	51.6076	53.28999	56.90443	61.44891	64.97623	68.34402
..	..	..	..	..	..	..	..	..
0.709362	0.775513	0.96753	1.122749	1.428121	1.679852	2.221975	2.708881	3.571162

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..	..	..	..	..	..	..	..	..	..
13.95148	16.60212	18.3869	20.0386	21.81139	23.60858	27.28148	31.96012	34.35885	
62.13619	62.18798	61.75813	62.21387	62.88713	64.43043	66.46527	68.58125	70.35352	
..	..	..	..	..	..	..	..	..	..
41.36686	46.83283	54.20633	57.66212	60.95808	64.67558	66.35869	67.03194	67.89545	
..	..	..	..	..	..	..	..	..	..
60.95635	59.00113	55.04091	54.27366	52.73038	52.32137	48.24206	46.08293	45.52301	
0.821973	0.868966	0.967075	1.49424	2.248333	2.413909	2.727885	3.944218	6.19894	
..	..	..	..	..	..	..	..	27.59157	
..	..	..	..	..	..	..	..	..	..
48.0409	51.48855	55.97683	59.71405	62.42874	65.00769	67.24278	68.80825	70.38277	
..	..	..	..	..	..	..	..	..	..
12.86849	13.31971	13.94324	15.17553	16.36594	17.84741	19.95184	21.84907	24.02823	
..	..	..	..	..	..	..	..	..	..
67.31966	67.27497	67.94531	68.18939	68.32977	68.85555	69.72056	70.99263	71.31488	
16.65415	17.56243	18.14857	19.13677	19.99419	21.38446	22.87403	23.85981	25.04662	
3.929151	5.176365	6.305345	7.729991	9.772419	13.41362	16.66311	19.1947	22.6898	
4.67E-05	8.31E-05	0.000154	0.001185	0.041458	3.143174	16.01542	27.79128	41.29228	
18.94161	19.15909	19.93882	22.70235	25.4818	28.58481	34.09066	37.03984	39.52755	
0.129812	0.151295	0.191206	0.303483	1.045655	6.983705	12.34506	18.03596	24.7028	
27.62537	31.03195	34.02183	37.45859	42.2107	47.96426	53.64777	58.7761	62.76335	
..	..	..	..	..	..	..	..	..	..
40.40238	40.70846	41.80159	43.72552	45.16846	46.52395	48.57905	50.06572	49.62846	
..	..	..	..	..	0.023389	0.077329	0.240652	0.854717	
..	..	..	..	..	..	..	0.053596	0.522155	
11.02827	10.90508	11.35578	11.69403	11.81217	12.3066	14.72327	16.13088	18.12375	
28.25154	29.87136	31.23554	33.89302	36.08338	41.58193	40.82547	44.51248	45.27591	
..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..
70.3474	68.09394	67.04045	67.64888	68.34745	69.76713	73.15859	73.10225	73.87406	
53.70742	57.0291	54.66768	53.66908	53.90915	54.0844	53.136	53.07758	52.76632	
..	..	..	..	..	..	..	..	..	..
34.07982	34.16039	35.04663	35.69116	36.25513	37.66505	38.41337	39.66055	40.20932	
..	..	..	..	..	..	..	..	..	..
67.39219	66.45833	66.80611	67.82369	69.41447	71.81673	74.27696	75.9579	77.6968	
..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	26.11866	28.70271	35.38671	
0.003041	0.005956	0.013823	0.041296	0.570487	3.720054	7.9919	24.76959	32.63695	
8.873748	10.07808	11.1859	13.05815	15.00802	16.31936	18.77544	20.79402	22.70056	
..	..	..	..	..	..	..	..	..	..
12.47309	14.79993	17.19169	19.38871	22.24483	25.43051	29.33023	33.39971	36.64531	
..	..	..	..	..	..	..	..	..	..
37.91612	41.25082	43.41567	45.5158	48.60698	51.87426	54.95258	58.20827	60.86784	
8.06123	8.704222	9.375942	10.68778	11.92409	14.48721	16.25257	18.10267	20.22914	
47.02501	47.02186	47.47469	47.58508	50.04521	52.05252	54.30313	55.85536	56.85788	
47.57719	48.61925	52.03318	52.46478	54.75887	57.09574	60.60687	63.7214	64.26187	







1994	1995	1996	1997	1998	1999	2000	2001	2002
[YR1994]	[YR1995]	[YR1996]	[YR1997]	[YR1998]	[YR1999]	[YR2000]	[YR2001]	[YR2002]
..	..	..	..	..	..	..	..	..
37.80687	40.75325	45.93929	61.18207	73.8118	74.09925	74.13632	76.44017	82.37997
40.01482	51.93109	61.63133	65.16498	68.39075	70.20004	70.43813	73.41484	74.45608
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	41.38261
..	..	..	..	79.56938	80.46158	81.08257	82.21999	84.19957
..	..	..	..	..	..	..	..	..
16.04982	44.28969	52.56353	59.9018	65.09678	65.51877	65.00059	67.04545	67.75616
60.46265	62.49504	64.51068	66.44597	67.68817	69.23171	72.03146	74.10856	76.56544
64.6462	67.63788	69.40687	69.56296	70.16129	71.20187	74.37565	77.65349	79.96878
75.36922	77.06003	78.49409	79.51921	80.25275	80.70938	82.60191	84.79086	86.32588
8.322887	42.59318	51.02441	52.89923	52.49048	48.01557	48.88226	49.63856	51.01413
73.76441	75.28911	76.32745	76.74279	77.76854	78.74396	80.00884	81.64502	83.41963
81.58469	83.79077	83.41184	85.44005	85.12688	84.0308	83.4385	82.43092	82.02244
38.56329	42.53447	43.54557	45.85592	49.70884	52.74441	53.90914	54.99119	56.82381
58.31272	59.40834	60.82591	65.51592	64.6846	65.69372	67.29389	69.02862	69.11508
..	..	..	..	..	..	..	..	..
73.89473	74.97948	76.53682	77.78296	78.52132	79.40142	81.4218	83.43232	84.80496
..	..	..	..	..	..	..	..	..
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..	..	..	..	..	..	..	..	..
51.74573	56.65931	61.63947	65.65423	72.59849	77.51873	80.628	83.37774	85.44837
41.95959	46.23662	51.98174	54.42927	58.60576	59.87136	62.63037	63.62597	64.21659
..	..	..	..	..	..	..	..	..
26.67444	29.4786	32.45088	35.28058	37.63076	40.54688	44.03451	46.92275	50.69196
22.07154	36.64032	42.41397	45.35187	46.8009	49.07469	52.53158	56.12493	60.86758
..	..	..	..	..	..	..	..	..
85.78854	90.90724	92.72187	94.30886	93.8926	93.50236	94.95927	95.52512	93.31374
1.004284	1.627491	3.606644	41.77841	49.57936	50.85506	56.1014	60.23099	63.73049
61.96341	66.58517	70.6454	72.28345	75.95858	75.14384	74.91524	78.66657	80.37812
14.65862	17.48234	22.10411	28.98105	32.6038	33.70758	41.94302	45.84212	45.21607
59.40666	64.36802	68.20669	74.04249	77.29609	80.66345	78.66505	81.3003	82.83243
43.42909	43.08212	46.16286	49.83752	57.21672	59.51008	59.03877	58.68415	60.57676
61.41997	66.99057	69.61932	72.95147	75.26458	76.67334	77.61427	81.04464	83.34179
73.59044	75.17172	76.35232	77.59015	78.36291	79.72238	81.89038	83.95821	85.85432
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
56.46343	61.67519	68.66353	72.48964	75.57686	69.51177	72.16893	81.14046	85.35313
..	..	..	..	..	..	..	..	..
52.96396	57.32428	61.54285	65.3178	68.6557	70.94666	73.67333	76.30281	78.20229
63.42924	74.07979	80.23815	82.47397	81.83629	80.68938	80.97002	81.5523	80.95536



23.41347	28.30621	34.19308	40.506	48.07302	53.3002	58.21584	62.85547	66.84801
..	..	..	..	..	..	69.14448	72.98517	75.56377
0.001962	0.012597	0.074632	0.222789	0.287729	1.107454	6.798738	31.26989	41.12696
53.44103	58.47411	64.33972	..	73.4672	76.51071	75.83589	75.87835	79.20088
16.71355	20.58866	24.19409	27.39942	30.59388	33.66707	37.35775	41.56266	45.37246
57.16252	65.33394	66.95475	69.64689	72.85862	73.37036	75.2272	78.50826	80.92416
57.97972	60.26998	62.86159	65.48334	69.6721	72.47232	75.81424	78.67752	79.99284
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	76.84234	78.21999	78.52613
65.43463	67.14628	69.14652	71.63949	73.23541	74.42914	77.51174	79.04108	81.25515
51.52265	56.15481	61.07328	66.32324	73.41874	74.98656	77.8176	81.44598	82.99588
71.37842	72.86566	74.415	76.03886	77.44227	79.37662	81.68115	83.59075	85.61736
..	..	..	..	..	..	70.07227	71.29619	71.75079
73.92262	74.89658	76.15271	78.00802	78.78744	79.71672	80.39985	81.44818	81.58668
20.61969	23.20457	24.45745	26.48658	27.76632	29.56295	31.84644	34.67538	36.4866
5.620001	6.906202	8.589456	11.22152	15.27232	23.25093	45.59371	62.77252	70.60905
31.58684	36.55931	39.18687	40.9995	42.58724	43.89871	45.07687	46.1	47.36187
53.643	59.02321	64.80094	67.71059	69.43522	69.7927	71.37789	74.05514	75.43666
38.2091	45.80218	47.88194	49.3263	53.24069	53.43889	56.00518	60.94785	65.5753
..	..	..	..	..	..	..	..	..
32.61677	42.00277	51.68455	57.15374	61.84511	63.8836	66.45075	70.27053	72.78053
30.5484	34.30237	36.50637	39.10756	42.27917	44.85349	50.32945	53.32008	59.729
..	..	..	..	..	..	..	23.29439	23.45164
..	..	..	..	..	..	..	..	..
59.14763	60.42856	62.27173	64.36913	68.04569	69.38529	70.14309	73.14007	73.69742
79.35253	79.98039	80.48363	81.44344	82.58322	83.54303	86.08449	88.30413	89.69158
78.06666	79.46911	81.04489	82.02062	82.55468	82.99812	84.38913	85.76871	87.4184
..	..	..	..	..	..	..	..	..
71.08561	77.94291	78.48048	81.59886	82.78101	81.17787	81.58776	83.33179	83.36236
43.31515	46.33896	46.84846	48.15142	48.68792	50.54408	50.97116	53.26109	57.84641
10.90113	28.63914	39.91079	42.73951	44.26395	52.75939	54.90351	57.45435	60.66481
79.13159	80.48171	81.64847	83.23194	83.99033	84.48204	85.69881	87.39895	88.64072
4.380472	6.985168	10.23753	13.09229	15.00693	16.86909	21.11896	28.06824	32.22689
..	..	..	..	..	..	..	..	..
52.33299	57.00869	61.68029	65.09492	68.19748	69.99561	72.20129	74.63734	77.3462
..	..	..	..	..	..	..	..	..
67.07273	68.32621	69.71483	70.58245	71.55486	71.96804	73.53825	75.84808	76.65755
..	..	..	..	..	..	..	..	..
33.17032	35.96041	39.93652	43.62382	46.50887	48.93366	51.85871	55.63707	60.16182
..	..	..	..	..	..	..	..	..
20.88353	30.35741	45.75896	68.22703	73.69458	72.15709	..	..	..
37.9868	42.62519	45.64932	47.27246	49.4406	53.16754	56.43657	57.91939	61.01287
14.67027	18.72047	22.57381	27.21476	28.64872	29.50944	32.26362	36.56008	39.1313
17.71395	22.93329	28.40009	34.13687	38.80273	43.32858	48.11554	52.77031	56.82861
82.18063	89.64048	95.26593	100.7691	103.7041	99.54618	95.8774	94.28759	91.47486
22.39798	28.73783	35.48232	41.97739	47.91878	52.70958	57.87702	63.15356	66.47887
46.86973	47.64366	48.7206	49.60509	50.42816	52.05791	54.73185	58.23747	61.26409

34.24382	37.74521	41.13366	44.08058	49.91281	52.24365	54.33832	56.39193	58.81517
17.7187	19.38786	20.93371	22.23707	35.23487	42.45021	44.01604	49.07793	54.91826
6.982414	10.4496	13.47344	15.81097	18.63578	22.37612	25.61545	28.5034	32.58963
2.661318	12.96889	10.87865	13.38762	15.3648	17.29735	18.15858	21.13188	25.21386
67.31553	69.01516	70.2255	71.29686	73.01905	74.21066	78.35957	82.17796	85.97025
..	..	..	..	..	..	..	..	..
54.02145	59.41912	66.16622	72.07328	76.02324	79.94638	80.78642	81.71582	86.40751
67.99328	71.55302	74.42013	75.94061	77.42532	78.71326	80.71075	82.95868	85.00388
16.41841	19.68711	24.88582	27.28918	29.64475	31.40987	33.9764	36.35156	38.92433
101.2518	101.1223	101.2605	103.0303	103.7123	103.3584	102.6591	101.8993	100.9583
57.33373	58.68286	62.49796	64.39658	66.38751	66.78999	67.2354	68.42695	69.68121
..	..	..	..	..	..	..	..	..
24.92586	25.31329	27.55708	30.68807	32.75106	34.63163	38.08787	40.27358	41.06347
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
57.61627	60.19787	63.1625	65.96633	70.9226	71.4992	73.1145	76.08764	78.18957
..	..	..	..	..	..	..	..	89.35963
62.22271	63.89447	66.16527	66.61664	66.70302	68.69798	69.94343	70.8527	71.48219
..	16.74067	22.08886	27.26548	30.11674	41.26925	48.9869	52.37664	53.49447
5.190655	6.207707	7.016225	8.946309	17.08573	38.48938	48.1443	51.90524	57.42347
33.75888	42.19048	49.62042	53.81204	56.31119	57.64285	59.17283	60.64449	61.82031
..	..	..	..	..	..	..	..	..
63.91619	69.84175	76.35821	..	..	47.75682	50.68525	45.81128	61.30126
..	..	..	..	..	..	..	41.02866	46.83818
82.7446	88.73364	92.3079	95.58511	99.13062	101.7562	98.80529	90.09665	81.2693
..	..	..	..	..	..	..	..	..
36.74076	51.3076	63.9422	69.62094	73.14902	73.68121	74.40448	75.42168	75.63399
72.82607	74.18624	75.0645	76.09102	76.8204	77.60796	80.05321	82.18568	83.89029
71.66635	77.80004	81.55193	84.39886	84.54456	81.83959	80.52548	78.92606	76.84321
15.49462	23.09941	27.66301	28.90408	30.69845	33.74666	37.74891	40.73747	47.45855
4.827503	8.850057	12.17786	13.29059	17.24437	24.97056	32.35722	39.70231	45.55627
66.7088	69.01064	71.41812	73.31964	77.18383	79.30219	80.51927	81.66006	83.13637
..	..	..	..	..	..	57.27087	57.65606	60.06532
61.99637	70.32978	75.11605	74.84338	77.8645	76.92864	76.40733	80.37058	84.41549
67.01873	69.98542	71.42292	73.64565	75.40229	77.01195	78.83682	81.14634	82.92222
..	..	..	..	..	..	..	..	..
39.23686	41.80444	43.76143	45.78555	49.4629	51.4781	53.15323	55.65935	57.82768
39.6166	42.00522	44.75697	47.81537	51.07197	54.60061	56.89345	59.95963	63.80864
19.5513	26.39412	35.46799	42.78348	49.59821	57.82438	63.31281	67.34441	70.73232
..	..	..	..	..	70.89029	72.42047	72.78438	72.70326
11.33956	14.72618	18.18767	20.32888	21.89334	30.48778	40.03025	43.93906	46.26838
..	..	..	..	..	..	..	..	..
15.80498	15.81185	23.22602	31.71656	34.68429	37.30813	41.63421	44.24774	44.65353
..	..	..	..	..	..	..	..	..
71.85805	76.25834	78.53603	79.35139	81.53602	82.09437	83.64975	84.16822	86.52124
..	..	..	..	..	..	..	..	..
4.431768	5.548339	6.451354	8.367227	12.67531	15.0077	14.99131	18.15468	28.51637

..	..	..	..	..	..	..	..	..	62.57348
..	..	..	..	..	..	..	..	..	..
37.22757	40.06542	43.75964	45.51439	50.63224	54.40491	55.75351	57.25233	58.98673	
72.32449	73.71545	75.27364	76.86135	78.36716	80.05769	81.94746	85.35307	88.15908	
..	..	..	..	..	..	..	..	..	..
69.08048	71.67442	73.31269	74.18302	75.12162	75.03578	76.99814	79.01997	81.1354	
..	..	..	..	..	42.69642	45.71502	48.45154	50.26855	
61.92998	68.47182	72.0932	74.20802	77.58301	75.79695	77.99518	81.11929	83.25181	
9.734302	16.82433	21.74852	23.60365	25.96315	27.68149	29.60073	35.18747	39.71841	
62.5179	72.75432	74.54888	75.51382	75.92476	74.95347	79.90596	84.06018	86.00583	
..	..	..	..	..	..	..	..	..	..
71.35101	73.10651	74.0295	75.92978	77.64003	79.47697	81.92924	84.39055	85.47643	
..	..	..	..	..	..	74.76761	74.15701	73.94968	
27.00008	30.33286	33.47953	37.28799	39.61029	41.2512	43.0525	44.40791	45.86908	
..	..	..	..	..	..	..	74.07229	73.10843	
72.21946	72.93748	73.85336	74.83144	75.24981	76.18831	77.33035	77.5678	78.348	
25.76114	30.2129	33.7249	35.06188	39.82125	45.76743	52.90527	57.8245	64.64747	
27.35622	31.02891	34.06964	36.43734	40.64704	43.39164	47.28914	50.72615	56.05759	
51.0938	56.77987	63.3311	68.75363	73.73677	76.29519	79.16185	80.72696	80.88287	
43.63307	46.61408	50.099	52.89966	57.78491	61.21678	63.65145	67.05394	68.87967	
32.85257	42.03531	50.35619	57.86589	64.57709	69.19698	76.04761	80.16052	81.6878	
66.16539	68.95944	71.07579	72.73673	74.60807	76.35397	78.53237	81.96416	84.91515	
..	..	..	..	..	..	..	..	..	..
50.28434	51.77101	54.31014	56.93576	58.61615	59.89498	60.88345	61.77925	61.92752	
2.023624	2.67609	3.715197	9.464965	15.05844	21.95577	31.98222	43.00874	52.70286	
2.128943	6.331779	9.355331	10.7363	13.70872	25.46347	30.75955	37.36579	43.26537	
..	36.05446	38.72659	43.37976	46.07367	44.96517	46.7186	48.28033	49.24236	
50.74541	49.272	51.92019	55.48286	56.71393	56.86429	57.41405	59.61776	64.41718	
..	..	..	..	..	..	..	..	..	..
..	..	8.644597	11.74085	17.66917	19.9176	22.34933	24.4104	26.88286	
74.29095	77.90776	78.85985	78.90492	78.61197	77.56347	76.69088	75.83122	76.01867	
69.8065	75.29608	77.36997	78.72639	79.63708	80.29588	80.88363	83.28952	85.23625	
1.413437	2.581792	5.050008	6.227057	8.105119	11.54606	19.75769	38.52852	46.03805	
40.90774	40.80797	40.35898	40.60842	41.65605	44.30009	47.07716	49.88749	49.97479	
..	..	..	..	..	..	..	..	..	..
80.10551	81.48375	82.61082	84.266	84.04058	84.05463	85.19913	86.04874	85.71171	
..	..	..	..	..	..	..	..	..	..
40.13403	44.08365	46.62985	49.49385	52.79294	58.37339	65.39908	70.19258	72.3876	
39.48803	44.8046	49.22432	53.33932	57.54841	61.09086	66.53512	72.11054	77.50497	
25.70975	28.1854	31.50405	34.05083	38.27297	41.3426	44.60435	47.69358	52.90631	
..	..	..	..	..	..	..	..	..	..
39.92086	43.38616	46.57684	50.58141	54.06169	56.86289	59.89877	63.31414	69.32563	
..	..	..	..	..	..	..	..	..	..
63.73984	66.71892	69.09334	70.45522	71.7476	73.40522	75.9256	78.6512	81.06246	
21.93824	23.62197	27.38632	30.00821	32.81825	34.35799	36.48003	41.64504	45.62257	
57.67793	59.38335	60.62243	66.02097	68.29628	70.59311	72.11006	73.77107	75.27681	
66.07143	69.79103	70.43648	70.43259	72.68781	75.23464	78.02644	82.16747	81.9575	







2003	2004	2005	2006	2007	2008	2009	2010	2011
[YR2003]	[YR2004]	[YR2005]	[YR2006]	[YR2007]	[YR2008]	[YR2009]	[YR2010]	[YR2011]
..	63.52339	71.58214	76.4387	83.07402	105.0211	97.86791	100	111.8042
82.77869	84.66606	86.66975	88.72446	91.32646	94.3979	96.50429	100	103.4291
77.63457	80.7103	81.82608	83.71749	86.79745	91.01458	96.23614	100	104.5242
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
82.03033	117.7481	144.7754	164.038	184.1352	207.1075	235.544	93.04836	105.5936
85.87811	87.62151	89.46046	91.05982	92.34928	97.27501	96.73984	100	103.4567
..	..	..	..	..	..	..	..	..
70.95531	75.89469	76.3796	78.58877	82.05246	89.39612	92.44164	100	107.65
79.36495	81.37219	84.13705	87.17273	91.87358	100.1018	97.96417	100	104.3163
82.15401	84.07908	86.34235	89.41207	91.49324	95.47347	97.16441	100	103.3039
87.49607	89.29954	91.35267	92.66956	94.67915	97.72398	98.21877	100	103.2866
52.15371	55.65267	61.03958	66.12352	77.14052	93.21452	94.5784	100	107.8524
85.94312	86.787	88.16831	90.27538	92.52556	96.67955	98.6738	100	103.1988
83.32957	85.29027	87.49605	89.25251	92.15917	95.4087	98.07586	100	99.59851
60.04499	64.60092	69.1531	73.83149	80.55531	87.7263	92.48412	100	111.3952
70.23435	71.21371	75.54506	81.06564	84.33601	91.17407	94.49633	100	109.4322
..	..	..	..	..	..	..	..	..
86.15248	87.95934	90.40587	92.02523	93.7029	97.90964	97.8576	100	103.5321
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
86.78662	71.07075	74.84569	78.58831	82.64041	89.52201	93.42618	100	108.849
66.35967	69.3043	73.04204	76.16999	82.80106	94.39884	97.55786	100	109.8845
..	..	85.0497	90.25948	91.61407	98.41829	98.04286	100	103.6713
55.3505	59.19498	64.2918	71.72086	76.79942	86.55462	93.50262	100	108.4599
69.8242	74.43063	79.54367	82.87143	85.88901	90.76629	95.20298	100	106.6364
..	..	..	..	..	..	..	..	..
93.59368	94.35574	95.52994	95.68268	96.60867	98.62294	99.6444	100	100.1379
65.22729	69.2369	72.72564	78.00668	84.56122	95.00344	97.61908	100	104.2199
82.01346	81.68522	86.92536	88.95343	88.74827	98.20866	100.7701	100	102.7598
50.03043	54.12113	61.2933	62.97606	68.27365	84.93716	93.90265	100	109.5922
83.81662	82.2318	82.57626	87.00984	90.84784	97.00227	97.96366	100	104.4739
61.30975	63.71602	67.76152	71.92428	77.43972	96.79746	96.15733	100	105.4786
83.86114	84.05708	85.7496	90.13791	90.96844	95.82416	98.74068	100	102.9397
88.22267	89.86119	91.85031	93.68918	95.69262	97.96079	98.25415	100	102.9121
..	..	..	..	..	..	99.72462	100	101.3254
..	..	..	..	..	..	..	..	..
83.85725	79.36636	85.62866	92.51002	84.20749	92.87831	102.122	100	102.0292
..	..	..	..	..	..	..	..	..
80.39992	81.24792	83.72808	86.56815	90.3839	98.262	98.60891	100	103.3412
81.86821	84.99938	86.50932	87.93623	92.17191	97.63333	96.9224	100	105.5539

71.61477	75.84094	79.67198	83.09186	87.69943	93.83711	97.77925	100	103.4176
78.4345	81.94444	84.41369	87.26211	91.15939	92.70981	96.75413	100	101.8427
46.42163	48.27589	58.56678	66.21132	77.43089	90.82751	93.37068	100	115.3165
78.70045	80.61269	83.10724	88.54066	90.89111	95.39817	99.61	100	101.7596
49.65936	55.77482	63.47052	70.75107	77.3714	87.7583	94.64078	100	104.8781
83.59208	84.81084	88.10645	90.2802	91.98831	97.79142	98.7884	100	104.9124
81.40659	83.07981	85.83572	88.57373	91.14173	96.68039	98.97996	100	102.2727
..	..	..	..	..	..	..	..	..
79.80902	80.90969	84.24083	86.86493	89.46716	95.61921	97.29572	100	102.3325
84.61835	86.55291	88.7688	90.81465	92.96936	97.31011	97.62761	100	103.2894
83.09443	85.38792	86.97366	89.17757	91.72191	97.5542	98.54865	100	101.9172
87.39398	88.40282	90.00982	91.74181	93.29524	96.48246	97.74127	100	102.7587
73.17286	75.45751	77.80044	80.51055	84.50868	94.61476	96.20002	100	105.0687
82.77244	84.7541	86.17958	88.07759	91.27676	97.0819	97.08798	100	101.1312
46.50206	70.43243	73.38369	78.94089	83.79068	92.70988	94.0469	100	108.4594
76.20793	78.29769	80.18292	82.82795	84.71327	91.82926	96.56762	100	104.4745
49.49684	55.07543	57.75728	62.17255	67.96639	80.41568	89.87537	100	110.0649
77.03621	80.46582	84.24043	87.64132	91.65362	97.80167	98.83441	100	105.1289
70.37774	73.34746	77.47812	80.89948	83.16769	88.61664	92.7737	100	104.8054
..	..	..	..	..	..	..	..	..
73.75214	76.00019	79.10078	82.61097	88.06439	97.18994	97.11374	100	104.9819
64.08325	66.29113	69.45587	73.14025	79.04713	89.05248	95.68532	100	106.1074
26.65843	27.54546	30.29173	34.01746	39.8822	57.57262	62.45688	45.10175	59.54099
..	..	..	..	..	..	..	..	..
76.77263	78.94336	80.81098	82.82385	86.80246	93.51427	96.44223	100	107.2781
90.47857	90.64788	91.21341	92.64241	94.96835	98.82972	98.82972	100	103.4168
89.25285	91.16472	92.75634	94.31012	95.71346	98.40574	98.49197	100	102.1116
..	..	..	..	..	..	..	..	..
85.2258	85.5737	88.74706	87.49626	91.8976	96.73536	98.55951	100	101.2633
67.69931	77.31717	81.05826	82.72522	87.16685	91.04025	95.19305	100	104.7959
61.17302	64.63316	69.96352	76.37285	83.43344	91.77636	93.36181	100	108.5429
89.55747	91.04926	92.45771	93.91616	96.07467	98.59988	98.90824	100	102.0752
40.8234	45.97718	52.9281	58.70529	65.00597	75.74635	90.32806	100	108.7268
..	..	..	..	..	..	..	..	..
80.07702	82.39834	85.31942	88.04618	90.59512	94.35735	95.49915	100	103.3299
..	..	..	..	..	..	..	..	..
78.30946	80.1207	82.90554	86.43064	89.76585	96.97699	96.67766	100	103.0335
..	..	..	..	..	..	..	..	..
63.53298	68.3479	74.57347	79.46613	84.887	94.52657	96.28391	100	106.2141
..	32.14809	42.23401	56.88721	67.22679	82.73306	86.6086	100	121.3505
..	..	..	..	..	..	..	99.41667	104.4333
64.66204	67.68076	72.36802	77.20015	86.61869	93.63655	96.40099	100	104.9777
50.36182	60.95383	69.47092	77.35254	82.42473	95.02069	95.39496	100	106.3328
61.18974	66.15454	71.98214	75.99712	81.26845	90.53584	95.512	100	106.7623
89.02901	88.78443	89.51818	91.32118	93.1751	97.17836	97.73862	100	105.2766
69.57746	74.27001	76.91515	79.93817	86.30024	91.51494	95.36929	100	103.9299
62.52347	64.49808	67.06965	71.55465	75.16928	84.71156	94.8796	100	104.001



61.0536	63.35364	66.04385	69.8721	74.32496	80.53055	89.29417	100	108.8584
58.62927	62.18458	68.68486	77.68853	82.66569	91.11964	95.11652	100	105.356
37.9565	43.55945	49.41084	54.35978	63.78633	79.99476	90.8353	100	126.2934
33.68981	42.77322	58.58198	89.76574	80.72858	90.95112	97.20275	100	105.8015
88.97104	90.92807	93.13734	96.79916	101.5395	105.6623	100.9307	100	102.5572
..	..	..	..	..	..	..	..	..
87.03307	86.6756	87.81055	89.66935	90.08937	94.22699	97.36372	100	103.4674
87.27565	89.2016	90.97251	92.8746	94.57397	97.74015	98.49741	100	102.7806
42.85566	48.6593	55.99813	60.76967	66.41253	81.04351	88.80245	100	107.5297
100.6993	100.6907	100.4058	100.6561	100.7166	102.1065	100.7252	100	99.73237
70.81701	73.19779	75.75509	80.49108	84.30951	96.08858	95.37842	100	104.1624
..	..	64.71299	70.35706	77.98858	91.35574	98.0394	..	105.1083
45.09413	50.33589	55.52692	63.55264	69.75466	88.05816	96.18956	100	114.0225
..	..	..	80.47306	83.36408	94.75611	104.0578	100	101.4974
..	..	..	..	..	..	..	..	..
80.93784	83.84399	86.15313	88.08455	90.31736	94.53861	97.14474	100	104.0258
88.39024	87.44913	86.23779	86.77389	90.55592	99.02328	96.63656	100	107.3364
72.16938	73.07047	76.09776	78.42408	82.7256	91.48021	95.69707	100	104.8394
55.08572	57.3501	59.83833	63.16063	69.62203	86.69342	92.62027	100	116.6363
66.31799	73.25636	78.50548	83.64413	87.5436	94.22213	94.35516	100	107.569
63.63946	67.58026	72.14088	76.85615	84.61323	97.64563	101.0965	100	104.3707
..	..	..	..	..	95.03338	96.16912	100	104.9715
65.36502	68.64858	71.00864	75.32079	81.35582	90.07364	96.65429	100	105.0366
51.6767	55.72251	61.75969	66.29374	73.84586	86.76109	93.20539	100	108.4882
79.48856	77.74175	79.80207	80.96659	86.0278	94.94091	97.27636	100	115.5185
..	..	..	..	..	..	..	..	..
74.77607	75.64654	77.65759	80.5613	85.18325	94.49027	98.69796	100	104.1303
85.6099	87.5153	89.69242	92.0839	94.2133	97.41833	97.77687	100	103.4107
75.64339	76.38667	79.74389	83.8506	88.5215	96.14278	97.26702	100	105.8045
46.64985	53.16021	62.92246	69.69646	76.86681	84.01274	91.53542	100	109.4825
49.91911	55.62476	64.19673	73.16777	78.98623	85.86798	93.09982	100	107.6228
84.04228	85.23675	87.77261	90.94053	92.78421	97.8324	98.40306	100	103.1745
59.30811	58.30852	59.06669	60.68419	64.80754	72.61131	75.90073	..	..
83.27865	80.69719	85.8601	87.18538	88.41644	96.5251	98.90324	100	102.9556
84.00339	86.34778	88.94509	91.41224	92.55417	96.49571	98.50699	100	102.963
..	..	..	..	..	..	..	..	..
60.8069	67.11113	75.24879	79.9451	85.7444	92.04373	94.08795	100	105.6863
66.31061	69.43408	72.86216	79.35673	86.36178	94.76676	97.15117	100	106.5225
73.94845	77.41545	80.50283	83.42465	86.73398	91.17908	96.00916	100	103.4074
72.79534	74.45267	77.62264	81.22229	83.90777	90.97594	96.79258	100	105.0826
51.7031	58.17854	65.13622	73.45917	82.54398	93.09562	93.03723	100	107.6873
..	..	..	..	..	..	..	..	..
46.9438	50.81251	57.27412	60.19233	65.98944	84.43722	90.87092	100	108.4112
..	..	82.20548	84.60959	88.28767	96.02055	99.34932	100	103.4501
87.53158	88.83881	89.71178	92.6586	94.55076	98.06318	99.01622	100	100.9069
..	57.24111	60.92032	68.98927	74.8461	85.70088	88.94776	100	111.1666
38.95043	40.71652	44.5311	53.43575	72.15141	91.48765	92.83467	100	105.0215

67.03882	69.81197	71.40504	74.94756	79.85504	87.11757	95.35168	100	105.0056
..	..	..	..	..	..	..	..	..
62.35311	64.12507	68.50887	73.24992	74.91212	82.33428	91.46913	100	109.2271
90.00337	91.14069	92.67927	93.70013	95.21232	97.57977	98.74075	100	102.3411
..	..	..	..	..	..	..	100	102.429
82.55817	84.44896	87.0137	89.94206	92.07921	95.72458	97.74978	100	104.0279
52.93399	57.41761	62.92918	68.68103	76.32313	91.45511	94.82706	100	108.0824
81.90778	82.12283	88.52635	88.56219	88.60998	98.62743	99.20234	100	102.9424
45.29161	52.08447	61.38857	66.43792	70.0176	78.12639	87.93512	100	110.84
86.74167	86.3525	86.8063	89.59593	91.61341	99.24655	98.51249	100	103.9048
..	..	..	..	..	..	..	..	..
87.60293	88.00109	89.34938	91.43064	92.08216	95.53887	97.63822	100	101.285
74.12075	74.58398	76.00841	78.7029	83.29166	93.59935	96.84613	100	104.0422
47.20577	50.72006	55.31699	59.69869	64.23501	77.2658	87.81085	100	111.9168
73.78313	77.44578	80.50602	84.07229	86.79518	97.18072	98.57831	100	104.6747
78.65486	79.02825	81.28521	83.28311	86.75488	94.35347	96.62649	100	105.8758
74.15651	75.7575	77.1066	78.93284	79.65219	88.2239	94.32751	100	104.4408
64.03839	66.80694	71.35474	78.1972	84.555	93.14138	95.55556	100	108.254
82.71032	85.73957	87.12538	88.86985	90.45172	95.68515	98.49469	100	103.3693
70.45643	73.85892	78.6722	82.98755	85.39419	92.44813	96.34855	100	104.7184
82.24548	85.02756	86.88439	88.00059	90.1643	93.91961	97.48423	100	104.2394
87.64856	89.72177	91.76488	94.61662	96.93848	99.44774	98.61683	100	103.653
..	..	..	..	..	..	..	..	..
63.32991	67.63592	73.59762	82.30849	93.63263	107.7245	102.4855	100	101.1384
60.75242	67.96639	74.0935	78.95293	82.77214	89.27042	94.25833	100	105.7893
49.17684	54.53152	61.44901	67.3903	73.46035	83.82617	93.58968	100	108.4405
52.91077	59.39271	64.74642	70.49774	76.89944	88.77134	100.2594	100	103.0966
64.49179	75.01244	76.40524	79.2323	83.65114	93.32615	99.22898	100	105.2354
84.73352	85.94592	87.39452	89.22567	91.45537	95.38173	97.47974	100	102.8998
29.51534	33.43672	39.17185	48.21155	57.15408	75.43773	88.23006	100	114.3272
76.48405	76.87833	77.24675	78.95315	82.24378	90.36145	94.93123	100	105.8262
85.19193	85.63048	87.0959	88.93562	94.14129	101.058	98.78623	100	103.4032
50.58486	56.16252	65.21591	72.86184	77.51896	87.13982	94.21292	100	111.1374
51.62524	53.61658	54.10298	53.91175	56.78017	77.76883	102.4639	100	102.5593
..	..	..	71.8527	80.22352	86.80556	93.28921	100	106.7882
86.14704	87.57943	87.95174	88.79862	90.66773	96.67699	97.25388	100	105.2478
..	..	89.28382	89.55221	93.52157	93.13072	98.6791	100	104.5848
78.57974	84.51134	86.80082	90.69239	93.19253	97.47769	99.05205	100	103.9193
81.80197	84.74109	86.81852	88.95246	92.20589	97.41315	98.2307	100	101.8029
57.28138	61.28296	65.77541	73.15541	78.76351	92.40541	98.95946	100	107.3427
..	..	..	..	..	..	..	..	..
73.26293	72.75593	74.25677	76.66559	81.40185	89.58703	96.09514	100	105.0172
..	..	..	..	..	94.13142	98.8439	100	147.3053
83.52614	86.06467	88.96372	92.09113	94.65774	98.51566	98.23194	100	103.1961
48.50347	52.17806	58.25142	64.08832	74.24126	90.99342	94.14631	100	106.7168
76.95957	78.74085	81.40057	88.30943	92.26648	97.15687	99.1563	100	105.8352
82.80515	84.01441	87.28952	89.38065	91.90396	97.00421	96.85198	100	102.7694







2012	2013	2014	2015	2016	2017	2018	2019
[YR2012]	[YR2013]	[YR2014]	[YR2015]	[YR2016]	[YR2017]	[YR2018]	[YR2019]
119.0057	127.7952	133.7684	132.8832	138.7087	145.6107	..	..
105.5304	107.5752	109.3242	111.3972	112.818	115.0593	117.3927	119.0493
113.8179	117.5218	120.9499	126.7366	134.8449	142.3842	148.464	151.3617
..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..
116.4464	126.6678	135.8897	106.6304	141.1549	185.8892	223.421	261.7272
106.9504	108.0835	109.261	110.3197	109.7798	112.4502	113.8076	..
..	..	..	..	..	112.8871	151.5817	232.7511
110.4037	116.7957	120.2778	124.7662	123.0149	124.2076	127.338	129.176
104.9709	102.4809	102.9128	103.4014	102.4385	101.3851	105.0614	109.5344
105.1249	107.7003	110.3798	112.0447	113.4755	115.6868	117.898	119.7971
105.8539	107.9712	109.705	110.6886	111.6755	113.9997	116.2779	118.058
109.0044	111.641	113.1925	117.7309	132.3878	149.5188	152.9032	156.8914
105.2353	106.3241	107.5821	109.603	109.2412	110.8798	113.394	..
102.3457	105.7242	108.5219	110.5182	113.6134	115.1896	117.5911	..
118.3212	127.2312	136.1268	144.5589	152.5291	161.2265	170.1642	179.6798
114.3931	116.4684	118.5293	117.2103	118.7128	124.2451	128.8096	134.0912
..	..	..	..	..	..	..	..
106.472	107.6572	108.0232	108.6297	110.7739	113.1289	115.4516	117.1105
..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	101.1167
..	..	..	..	..	..	..	..
120.7349	129.1944	139.8802	146.2421	150.9509	158.4307	162.7463	167.1825
114.8464	121.4345	128.4371	133.6511	138.4936	142.403	145.6384	148.3175
105.7993	105.7008	104.7525	103.6672	102.025	102.8516	104.3091	104.8961
116.6344	123.4979	128.9346	132.8826	136.6232	141.143	145.7133	149.7537
112.3985	119.3721	126.9272	138.3886	150.4826	155.6688	161.3738	167.3979
..	..	..	..	..	..	..	..
100.2498	100.64	100.4316	99.94112	99.66259	98.40634	99.41505	99.02682
107.2992	108.2542	106.719	106.6073	105.7558	107.939	110.9741	114.4184
106.6833	107.2527	106.9759	107.7513	108.2265	109.8315	111.9798	108.359
129.4952	139.7745	145.9321	154.0236	162.5837	188.6825	183.3717	182.1123
107.1279	108.7419	108.4822	108.6245	107.0953	107.9354	109.2921	110.5016
108.572	111.7668	116.0757	117.4933	121.0715	124.5715	127.6335	..
105.7554	107.9238	109.9256	112.8675	113.8542	114.5833	115.808	118.6486
104.472	105.4522	107.4628	108.672	110.2247	111.9848	114.5249	116.7573
102.5301	104.7454	106.0799	103.5896	102.9419	..	..	..
..	..	..	..	..	..	..	..
109.6984	109.9427	111.7919	116.6851	115.7605	113.9811	118.8534	117.6982
..	..	..	..	..	..	..	..
106.4492	108.3541	113.467	118.4014	122.8843	125.5665	128.624	131.9136
108.3189	111.158	113.2941	114.9221	117.2206	119.0881	121.5589	125.0832

106.6932	108.8463	112.0005	117.5896	126.4256	131.8773	136.1504	140.9504
108.2738	103.6235	..	..	..	..	..	..
126.5274	127.55	129.1355	130.0965	133.8509	..	..	..
106.8579	111.8072	112.827	116.4026	120.1165	120.6571	122.048	124.7405
109.5928	115.3259	120.5379	121.5045	121.4832	123.4582	126.2005	128.8459
106.281	109.0243	109.5135	110.8841	111.6859	112.452	112.9457	111.9474
105.7623	108.1067	107.874	107.3729	106.165	107.364	108.9746	109.8157
..	..	..	..	..	..	..	..
105.5908	106.9976	108.6012	108.0837	108.0327	109.7456	112.5811	115.5332
105.7571	105.3347	103.9075	101.7285	100.2747	100.8079	102.255	102.511
105.2679	106.7819	107.1493	107.4807	108.2154	110.8672	113.2503	116.4755
105.2227	106.053	106.6512	107.1333	107.4011	108.6332	109.517	110.3473
108.989	111.9383	113.4404	112.4791	115.5592	116.2158	116.3877	120.2509
102.5034	102.4558	103.2747	102.4032	102.5484	102.8522	103.8696	..
112.4664	117.8996	121.435	122.4511	124.4277	128.5084	133.089	135.4987
109.8045	112.7932	116.8416	121.4763	123.5757	124.0914	123.8133	124.1427
117.8924	129.0565	142.0528	156.7844	178.4419	231.0941	264.3751	..
106.9474	107.7577	108.9876	108.1905	108.844	109.9459	111.1446	111.2284
108.6377	111.8413	116.6617	118.6177	120.2925	121.1894	122.8253	124.3467
..	..	..	..	..	..	..	..
109.1113	112.1452	112.0261	111.4746	111.6403	115.4553	119.4227	122.1423
115.593	122.0904	129.0254	135.4152	146.0416	155.1276	162.5969	..
73.46082	78.94396	84.38321	92.45776	98.58598	109.122	124.2169	143.8551
..	..	..	..	..	..	..	..
110.9507	114.1832	114.7762	116.3542	120.8493	124.8948	129.9923	132.2972
106.3211	107.8928	109.0162	108.7895	109.1776	110.0008	111.193	112.3317
104.1071	105.0062	105.5394	105.579	105.7726	106.8645	108.8423	110.0486
..	..	..	..	..	..	..	..
103.9492	104.4746	109.375	109.0044	111.3008	114.2524	119.6784	122.6279
109.2542	115.4808	122.3496	130.6797	140.1263	151.3843	161.256	172.7304
107.5187	106.9681	110.2508	114.6647	117.1127	124.1809	127.4285	133.6125
104.1253	105.6921	106.6506	107.1992	107.7263	109.3525	111.2466	112.8549
116.4751	130.0633	150.2096	175.9705	206.6855	232.2565	255.1035	..
..	..	..	..	..	..	..	..
104.8814	103.9142	102.5517	100.7713	99.93932	101.0599	101.6921	101.9494
..	..	..	..	..	..	..	..
105.5174	105.471	104.4335	103.8952	105.6099	106.5693	107.4263	..
..	..	..	..	..	..	..	..
110.2309	115.0187	118.9504	121.7918	127.2097	132.8381	137.822	142.9214
139.8262	156.4486	166.0715	185.6387	200.8093	218.7105	240.201	262.9499
106.6583	107.9458	106.3167	..	..	104.0233	104.42	104.6775
107.4887	109.5324	110.4663	109.3597	110.274	112.3743	113.8159	116.1915
111.6686	116.9897	121.012	129.1583	144.0152	159.3962	179.2911	..
112.3098	118.1072	125.3462	129.3045	132.8275	138.0534	144.0551	150.3444
109.5549	114.2915	119.3644	122.9398	125.904	127.7682	130.8445	134.5931
109.8042	111.7073	111.4531	111.3844	111.8241	114.45	117.7121	121.642
109.3944	113.6305	115.9538	117.8474	119.8472	121.957	125.229	129.0033

118.9957	131.9754	140.36	148.6026	155.945	159.8295	167.5983	180.4358
109.8648	116.9099	124.3862	132.301	136.9657	142.1824	146.7299	151.1767
160.7169	219.5442	256.0029	287.9641	308.8283	333.6733	393.7816	550.9294
112.2438	114.3534	116.9103	118.5393	119.199	119.4184	119.8572	..
104.2968	104.8273	105.0187	104.7143	104.723	105.0796	105.5928	106.5843
..	..	..	..	..	..	..	..
105.21	106.8633	107.3816	106.7024	106.1215	106.3807	107.2475	108.1501
105.9066	107.1986	107.457	107.4987	107.3976	108.7149	109.9515	110.6236
114.9474	125.6885	136.1081	141.1113	144.4294	150.7494	156.3876	162.5018
99.68057	100.0259	102.7886	103.6001	103.4792	103.9627	104.9814	105.4822
108.8656	114.118	117.4268	116.3971	115.4911	119.3299	124.6547	125.604
110.4667	116.925	124.7667	133.0833	152.4417	163.7833	173.6417	182.75
124.7153	131.8458	140.9144	150.1896	159.6473	172.4282	180.5148	..
98.40594	96.9416	98.98124	99.54742	..	..	..	..
..	..	..	..	..	..	..	..
106.3011	107.6845	109.0572	109.8273	110.8945	113.0508	114.7193	115.1586
109.9949	111.9388	112.419	111.8154	112.1208	113.7895	114.9886	118.0656
108.2521	111.1557	114.3892	118.1316	121.91	124.5576	125.2341	126.6015
119.8653	127.7929	137.4212	146.3581	146.9272	151.5926	153.9312	155.6762
112.1462	119.2915	124.2173	125.804	127.813	128.8681	131.4969	135.8663
106.7272	106.6958	107.3578	107.5449	107.6961	110.852	113.6615	116.857
111.8802	117.2739	119.4489	114.9706	114.0699	118.9993	126.2309	130.0246
111.3929	116.8123	123.0854	127.0468	135.4275	141.4509	148.1724	155.8582
115.8998	124.6819	136.977	147.5909	160.6294	180.579	223.1298	..
122.5187	125.7113	..	..	..	..	..	..
..	..	..	..	..	..	..	..
107.3479	108.4723	108.5849	107.6249	108.5995	112.6425	115.6815	118.3821
106.1643	108.0053	108.6841	109.2001	109.5177	111.4132	113.1158	115.0878
112.2673	118.4497	125.6103	131.3371	134.45	136.0991	140.1892	..
115.7382	122.4816	129.929	139.5492	147.9843	160.6963	174.5129	184.3297
130.5156	166.1246	205.649	250.619	305.0312	340.2421	382.5008	418.3443
104.8909	107.0988	110.4649	112.7895	115.1475	119.6051	120.6632	121.4631
..	..	..	96.40376	96.88819	99.61799	99.48513	99.70403
108.4361	107.7782	108.7307	110.3081	108.3229	110.2293	110.5595	108.7261
105.4092	106.6533	106.9843	108.1617	108.8569	110.342	111.6196	113.4525
..	..	..	..	..	..	..	..
110.8675	115.4453	119.5256	123.3955	125.2292	128.0782	131.9832	135.0189
110.6259	114.5457	118.2314	119.7525	120.9233	125.3576	129.3892	129.914
107.659	111.7569	116.248	119.4107	122.7801	130.1978	136.5766	141.5425
110.3562	112.29	113.0202	112.6832	111.5142	112.097	..	..
112.5831	117.7595	123.752	135.7266	144.3579	153.8425	158.5271	166.1963
..	..	..	..	..	..	..	..
123.9469	136.9497	153.7315	162.5356	163.7421	170.8006	182.4363	195.7629
107.7384	110.115	109.3326	111.0258	110.7245	113.36	116.3201	..
102.2057	104.1279	104.5884	106.2178	107.9548	108.7695	110.8502	111.0676
114.0597	118.9202	121.9642	126.2949	148.293	170.7048	177.3816	182.3148
106.5627	112.5761	118.1523	129.3227	138.2832	144.6063	154.5441	..



112.0641	118.3407	124.6714	128.9048	137.5772	146.0299	152.2925	157.9684
..	..	..	..	..	..	..	..
119.5597	130.3681	141.2723	152.3889	165.7844	171.7976	178.7746	188.73
104.8541	107.4827	108.5318	109.1832	109.529	111.0421	112.9337	115.908
104.2212	105.5527	105.7415	106.3448	106.9598	..	..	..
105.1305	106.3231	107.6283	107.9433	108.6409	110.6516	112.4201	114.2409
115.8573	124.1243	131.6164	136.8776	141.7001	147.1565	154.4366	162.7396
103.4109	105.7865	104.8023	104.1986	105.9219	108.8839	112.1151	109.3237
124.3822	134.9246	145.8029	158.9389	183.8531	214.2321	240.1429	267.5115
107.3503	110.34	110.0292	109.6992	109.4367	110.9158	112.5333	113.3958
..	..	..	..	..	..	..	..
101.9908	104.1535	106.28	108.5875	112.4423	114.5507	117.7179	120.2697
107.1091	108.2289	109.3354	109.4068	110.6203	112.3871	113.3776	113.5293
122.7529	132.1953	141.6993	145.2834	150.7535	156.9123	164.8804	182.322
108.4578	112.0964	116.7952	117.9036	116.6747	118.1687	..	..
111.9088	116.4156	119.4733	119.6375	120.5225	121.5778	122.5037	122.0687
109.1795	114.5952	120.5795	127.8094	136.339	143.7314	150.5167	155.9924
112.2333	115.2455	121.041	124.8283	129.9299	134.6106	139.9621	143.821
107.1482	110.1555	113.73	117.7667	121.997	125.4163	127.0689	129.7845
107.8882	110.6746	114.6565	115.4295	116.8766	120.2114	126.4763	129.6133
107.9507	109.0216	109.0802	108.1267	107.408	109.6377	111.6253	114.1118
106.5277	106.82	106.5229	107.0426	107.6928	109.1667	110.2515	110.6244
..	..	..	..	..	..	..	..
103.4801	106.8142	110.3922	112.3948	115.4031	115.8588	116.1552	115.3808
109.3172	113.6732	114.8876	114.205	112.4408	113.9464	119.2169	123.7804
113.9435	121.639	131.1553	151.5295	162.2008	168.1752	173.0158	180.7503
113.6877	120.4357	123.2399	126.3567	135.4347	146.6411	146.1872	151.0894
107.3917	108.0469	107.6073	108.3869	109.8011	111.7225	116.412	117.5555
105.8091	107.5067	108.7032	108.8616	109.4864	110.6316	..	..
126.4892	136.7422	146.3121	153.9938	162.3598	171.6063	185.0896	..
108.8595	112.705	115.2254	116.6151	119.0277	118.03	120.9313	118.3998
104.8697	105.6146	104.4631	104.6043	105.4802	106.8706	107.3632	109.2513
119.2842	128.4622	131.1374	132.9633	134.4556	138.6655	141.3831	143.9976
109.8516	114.618	116.2064	120.9034	119.6757	123.0946	127.6526	129.9582
113.8238	120.1049	125.6843	134.0972	148.6914	175.7827	203.9656	234.1587
110.0635	112.6595	113.8144	113.2196	112.617	113.2659	113.7627	114.4058
108.784	111.5348	113.6392	114.0142	114.1416	116.6435	..	..
107.6667	109.1746	109.0914	108.7366	108.1712	109.5903	112.3455	115.339
104.4471	106.295	106.5069	105.9471	105.8888	107.4021	109.2694	111.0511
113.6888	119.8182	126.0079	125.284	125.9261	126.5415	130.9217	133.062
..	..	..	..	..	..	..	..
111.0283	117.4417	124.648	130.2686	138.8593	146.0537	152.6328	158.9279
213.7079	213.6238	217.1597	331.8519	1592.385	4583.705	..	..
105.7203	107.2094	107.0477	106.512	106.2961	108.3753	110.1907	110.9615
114.7663	122.6949	126.5954	131.3659	136.5666	147.0879	150.2282	155.5289
106.6989	107.88	108.1474	105.658	104.9321	105.6613	104.5654	..
107.0627	108.6387	112.4612	111.3542	107.91	108.0378	110.1321	..







Colombia	COL	6.635	6.7	6.901208	9	9	10.475	13.5
Comoros	COM	245.193	245.258	245.0118	245.0143	245.0251	245.0589	245.6764
Congo, Dem	COD	1.7E-13	1.75E-13	2.1E-13	2.53E-13	5.5E-13	5.5E-13	5.5E-13
Congo, Rep	COG	245.1951	245.2601	245.0139	245.0164	245.0272	245.0609	245.6784
Costa Rica	CRI	5.615	5.951667	6.625	6.625	6.625	6.625	6.625
Cote d'Ivoire	CIV	245.1951	245.2601	245.0139	245.0164	245.0272	245.0609	245.6784
Croatia	HRV	..	..	..	..	..	..	..
Cuba	CUB	1	1	1	1	1	1	1
Curacao	CUW	..	..	..	..	..	..	..
Cyprus	CYP	0.357143	0.357143	0.357143	0.357143	0.357143	0.357143	0.357143
Czech Repu	CZE	..	..	..	..	..	..	..
Denmark	DNK	6.90714	6.90714	6.90714	6.90714	6.90714	6.90714	6.90714
Djibouti	DJI	214.392	214.392	214.392	214.392	214.392	214.392	214.392
Dominica	DMA	1.71429	1.71429	1.71429	1.71429	1.71429	1.71429	1.71429
Dominican	DOM	1	1	1	1	1	1	1
Ecuador	ECU	15	16.5	18	18	18	18	18
Egypt, Arab	EGY	0.348242	0.348242	0.404489	0.434783	0.434783	0.434783	0.434783
El Salvador	SLV	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Equatorial	GNQ	245.1951	245.2601	245.0139	245.0164	245.0272	245.0609	245.6784
Eritrea	ERI	2.486691	2.486691	2.486691	2.487983	2.502204	2.502204	2.502204
Estonia	EST	..	..	..	..	..	..	..
Eswatini	SWZ	0.714286	0.714286	0.714286	0.714286	0.714286	0.714286	0.714286
Ethiopia	ETH	2.48447	2.48447	2.48447	2.48447	2.5	2.5	2.5
Faroe Islan	FRO	6.90714	6.90714	6.90714	6.90714	6.90714	6.90714	6.90714
Fiji	FJI	0.792858	0.792858	0.792858	0.792858	0.792858	0.792858	0.792858
Finland	FIN	3.2	3.2	3.2	3.2	3.2	3.2	3.2
France	FRA	4.93706	4.93706	4.93706	4.93706	4.93706	4.93706	4.93706
French Poly	PYF	89.765	89.765	89.765	89.765	89.765	89.765	89.765
Gabon	GAB	245.1951	245.2601	245.0139	245.0164	245.0272	245.0609	245.6784
Gambia, Th	GMB	1.785711	1.785711	1.785711	1.785711	1.785711	1.785711	1.785711
Georgia	GEO	..	..	..	..	..	..	..
Germany	DEU	4.2	4.033333	4	4	4	4	4
Ghana	GHA	7.14E-05	7.14E-05	7.14E-05	7.14E-05	7.14E-05	7.14E-05	7.14E-05
Gibraltar	GIB	0.357143	0.357143	0.357143	0.357143	0.357143	0.357143	0.357143
Greece	GRC	30.0003	30.00005	30	30	30	30	30
Greenland	GRL	6.90714	6.90714	6.90714	6.90714	6.90714	6.90714	6.90714
Grenada	GRD	1.71429	1.71429	1.71429	1.71429	1.71429	1.71429	1.71429
Guam	GUM	..	..	..	..	..	..	..
Guatemala	GTM	1	1	1	1	1	1	1
Guinea	GIN	24.685	24.685	24.685	24.685	24.685	24.685	24.685
Guinea-Bis	GNB	245.1951	245.2601	245.0139	245.0164	245.0272	245.0609	245.6784
Guyana	GUY	1.71429	1.71429	1.71429	1.71429	1.71429	1.71429	1.71429
Haiti	HTI	5	5	5	5	5	5	5
Honduras	HND	2	2	2	2	2	2	2
Hong Kong	HKG	5.7143	5.7143	5.7143	5.7143	5.7143	5.7143	5.7143
Hungary	HUN	..	..	..	..	..	..	..
Iceland	ISL	0.361905	0.400833	0.43	0.43	0.43	0.43	0.43





St. Martin (MAF)	..	..	..	..	..	..	..
St. Vincent VCT	1.71429	1.71429	1.71429	1.71429	1.71429	1.71429	1.71429
Sudan SDN	0.000348	0.000348	0.000348	0.000348	0.000348	0.000348	0.000348
Suriname SUR	0.001885	0.001885	0.001885	0.001885	0.001885	0.001885	0.001885
Sweden SWE	5.17321	5.17321	5.17321	5.17321	5.17321	5.17321	5.17321
Switzerland CHE	4.37295	4.37295	4.37295	4.37295	4.37295	4.37295	4.37295
Syrian Arab SYR	3.58	3.58	3.69	3.82	3.82	3.82	3.82
Tajikistan TJK	..	..	..	..	..	..	..
Tanzania TZA	7.14286	7.14286	7.14286	7.14286	7.14286	7.14286	7.14286
Thailand THA	21.18177	21.05844	20.88011	20.83008	20.8	20.8	20.8
Timor-Leste TLS	1	1	1	1	1	1	1
Togo TGO	245.1951	245.2601	245.0139	245.0164	245.0272	245.0609	245.6784
Tonga TON	0.892857	0.892857	0.892857	0.892857	0.892857	0.892857	0.892857
Trinidad and TTO	1.71429	1.71429	1.71429	1.71429	1.71429	1.71429	1.71429
Tunisia TUN	0.42	0.42	0.42	0.42	0.44625	0.525	0.525
Turkey TUR	9.02E-06	9.02E-06	9.02E-06	9.02E-06	9.04E-06	9.04E-06	9.04E-06
Turkmenistan TKM	..	..	..	..	..	..	..
Turks and Caicos TCA	..	..	..	..	..	..	..
Tuvalu TUV	..	..	..	..	..	..	..
Uganda UGA	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143	0.07143
Ukraine UKR	..	..	..	..	..	..	..
United Arab Emirates ARE	..	..	..	..	..	..	4.7619
United Kingdom GBR	0.357143	0.357143	0.357143	0.357143	0.357143	0.357143	0.357143
United States USA	1	1	1	1	1	1	1
Uruguay URY	1.13E-05	1.1E-05	1.1E-05	1.46E-05	1.64E-05	2.9E-05	5.39E-05
Uzbekistan UZB	..	..	..	..	..	..	..
Vanuatu VUT	89.765	89.765	89.765	89.765	89.765	89.765	89.765
Venezuela, Bolivarian VEN	0.00335	0.00335	0.00335	0.00335	0.00435	0.0044	0.0044
Vietnam VNM	..	..	..	..	..	..	..
Virgin Islands VIR	..	..	..	..	..	..	..
West Bank PSE	..	..	..	..	..	..	..
Yemen, Republic of YEM	..	..	..	..	..	..	..
Zambia ZMB	0.714286	0.714286	0.714286	0.714286	0.714286	0.714286	0.714286
Zimbabwe ZWE	0.000714	0.000714	0.000714	0.000714	0.000714	0.000714	0.000714
Arab World ARB	..	..	..	..	..	..	..
Caribbean Region CSS	..	..	..	..	..	..	..
Central Europe and the Baltics CEB	..	..	..	..	..	..	..
Early-demographic transition EAR	..	..	..	..	..	..	..
East Asia & Pacific (excluding high income) EAS	..	..	..	..	..	..	..
East Asia & Pacific (low income) EAP	..	..	..	..	..	..	..
East Asia & Pacific (total) TEA	..	..	..	..	..	..	..
Euro area EMU	..	..	..	..	..	..	..
Europe & Central Asia ECS	..	..	..	..	..	..	..
Europe & Central Asia (excluding high income) ECA	..	..	..	..	..	..	..
Europe & Central Asia (total) TEC	..	..	..	..	..	..	..
European Union EUU	..	..	..	..	..	..	..
Fragile and conflict affected situations FCS	..	..	..	..	..	..	..



Heavily ind HPC	..	..	..	..	..	..	..
High incom HIC	..	..	..	..	..	..	..
IBRD only IBD	..	..	..	..	..	..	..
IDA & IBRD IBT	..	..	..	..	..	..	..
IDA blend IDB	..	..	..	..	..	..	..
IDA only IDX	..	..	..	..	..	..	..
IDA total IDA	..	..	..	..	..	..	..
Late-demo LTE	..	..	..	..	..	..	..
Latin Amer LCN	..	..	..	..	..	..	..
Latin Amer LAC	..	..	..	..	..	..	..
Latin Amer TLA	..	..	..	..	..	..	..
Least devel LDC	..	..	..	..	..	..	..
Low & mid LMY	..	..	..	..	..	..	..
Low incom LIC	..	..	..	..	..	..	..
Lower mid LMC	..	..	..	..	..	..	..
Middle Eas MEA	..	..	..	..	..	..	..
Middle Eas MNA	..	..	..	..	..	..	..
Middle Eas TMN	..	..	..	..	..	..	..
Middle inc MIC	..	..	..	..	..	..	..
North Ame NAC	..	..	..	..	..	..	..
Not classifi INX	..	..	..	..	..	..	..
OECD mem OED	..	..	..	..	..	..	..
Other smal OSS	..	..	..	..	..	..	..
Pacific islar PSS	..	..	..	..	..	..	..
Post-demo PST	..	..	..	..	..	..	..
Pre-demog PRE	..	..	..	..	..	..	..
Small state SST	..	..	..	..	..	..	..
South Asia SAS	..	..	..	..	..	..	..
South Asia TSA	..	..	..	..	..	..	..
Sub-Saharan SSF	..	..	..	..	..	..	..
Sub-Saharan SSA	..	..	..	..	..	..	..
Sub-Saharan TSS	..	..	..	..	..	..	..
Upper mid UMC	..	..	..	..	..	..	..
World WLD	..	..	..	..	..	..	..

Data from database: World Development Indicators

Last Updated: 05/28/2020

Code PA.NUS.FCRF

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Indicator N Official exchange rate (LCU per US\$, period average)

Long defini Official exchange rate refers to the exchange rate determined by national authorities or to t

Source International Monetary Fund, International Financial Statistics.

Topic Financial Sector: Exchange rates & prices

Periodicity Annual

Statistical c The exchange rate is the price of one currency in terms of another. Official exchange rates a  
Developme In a market-based economy, household, producer, and government choices about resource  
Limitations Official or market exchange rates are often used to convert economic statistics in local curre  
License UR <https://datacatalog.worldbank.org/public-licenses#cc-by>

1967	1968	1969	1970	1971	1972	1973	1974	1975
[YR1967]	[YR1968]	[YR1969]	[YR1970]	[YR1971]	[YR1972]	[YR1973]	[YR1974]	[YR1975]
38.69226	38.69226	38.69226	38.69226	38.69226	38.69226	38.69226	38.37871	34.92963
..	..	..	..	..	..	..	..	..
4.93706	4.93706	4.93706	4.93706	4.912638	4.480515	3.962495	4.18075	3.949408
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
2.88E-08	2.87E-08	2.86E-08	2.86E-08	2.82E-08	2.71E-08	2.45E-08	2.54E-08	2.56E-08
1.761908	2	2	2	1.974873	1.921278	1.959219	2.053232	2.169796
3.33E-11	3.5E-11	3.5E-11	3.79E-11	4.52E-11	5E-11	5E-11	5E-11	3.66E-10
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
0.892857	0.892857	0.892857	0.892857	0.88267	0.838698	0.704114	0.696666	0.763871
26	26	26	26	24.98558	23.11533	19.58	18.6925	17.41675
..	..	..	..	..	..	..	..	..
1	1	1	1	1	1	1	1	1
0.47619	0.47619	0.47619	0.47619	0.474796	0.438598	0.39963	0.39474	0.3955
..	..	..	..	7.868843	7.700184	7.849816	8.226002	12.18618
1.738099	2	2	2	1.974876	1.921281	1.959221	2.053231	2.018867
..	..	..	..	..	..	..	..	..
50	50	50	50	49.05698	44.01458	38.9765	38.9515	36.77892
1.448412	1.66667	1.66667	1.66667	1.643682	1.601562	1.632684	1.710927	1.808044
246.0009	247.5647	259.9606	276.4031	275.3565	252.0276	222.8892	240.7047	214.3129
0.869045	1	1	1	1	1	1	1	1
7.5	7.5	7.5	7.5	7.491935	7.594468	7.742039	8.101603	8.375892
1.19E-05	1.19E-05	1.19E-05	1.19E-05	1.19E-05	1.33E-05	2E-05	2E-05	2E-05
..	..	..	..	..	..	..	..	..
0.71705	0.716998	0.718057	0.716414	0.712444	0.772828	0.694114	0.679477	0.739508
1.15E-12	1.47E-12	1.76E-12	1.99E-12	2.29E-12	2.57E-12	2.65E-12	2.94E-12	3.52E-12
..	..	..	..	..	..	..	..	..
3.06122	3.06122	3.06122	3.06122	3.05226	2.819556	2.45858	2.436867	2.3713
0.00117	0.00117	0.00117	0.00117	0.00117	0.00108	0.000979	0.00097	..
246.0009	247.5647	259.9606	276.4031	275.3565	252.0276	222.8892	240.7047	214.3129
87.5	87.5	87.5	87.5	87.5	87.5	80.02608	78.75	78.75
28.75	28.75	28.75	28.75	28.36017	27.05342	24.51517	25.40817	25.54325
35	35	43.55833	55.54	75.82167	162.25	244.9167	..	..
246.0009	247.5647	259.9606	276.4031	275.3565	252.0276	222.8892	240.7047	214.3129
1.07871	1.077471	1.076781	1.044219	1.009811	0.990663	1.00009	0.978018	1.017159
0.727467	0.833333	0.833333	0.827844	0.832759	0.800497	0.816342	0.838826	0.83333
246.0009	247.5647	259.9606	276.4031	275.3565	252.0276	222.8892	240.7047	214.3129
246.0009	247.5647	259.9606	276.4031	275.3565	252.0276	222.8892	240.7047	214.3129
..	..	..	..	..	..	..	..	..
0.005068	0.006876	0.008618	0.011278	0.012209	0.020835	0.071642	0.592826	4.910417
2.461809	2.461809	2.461809	2.461809	2.461809	2.245066	1.989416	1.961107	1.859823

14.50639	16.29067	17.32014	18.4431	19.93193	21.86564	23.63698	26.06412	30.92894
245.9989	247.5626	259.9584	276.4008	275.3543	252.0255	222.8873	240.7026	214.3111
1.16E-12	1.67E-12	1.67E-12	1.67E-12	1.67E-12	1.67E-12	1.67E-12	1.67E-12	1.67E-12
246.0009	247.5647	259.9606	276.4031	275.3565	252.0276	222.8892	240.7047	214.3129
6.625	6.625	6.625	6.625	6.625833	6.635	6.646758	7.93	8.57
246.0009	247.5647	259.9606	276.4031	275.3565	252.0276	222.8892	240.7047	214.3129
..	..	..	..	..	..	..	..	..
1	1	1	1	1	0.921	0.836667	0.822	..
..	..	..	..	..	..	..	..	..
0.362103	0.416667	0.416667	0.416667	0.410731	0.383572	0.349951	0.364693	0.368907
..	..	..	..	..	..	..	..	..
6.956542	7.5	7.5	7.5	7.426338	6.949292	6.0495	6.0949	5.74615
214.392	214.392	214.392	214.392	213.7788	197.466	179.9423	177.721	177.721
1.761908	2	2	2	1.974873	1.921278	1.959219	2.053232	2.169796
1	1	1	1	1	1	1	1	1
18	18	18	20.91667	25	25.00014	24.99998	24.99998	25
0.434783	0.434783	0.434783	0.434783	0.434783	0.434783	0.397956	0.391304	0.391304
2.5	2.5	2.5	2.5	2.5	2.500014	2.499998	2.499998	2.5
246.0009	247.5647	259.9606	276.4031	258.6553	252.0276	222.8892	240.7047	214.3129
2.502204	2.502204	2.502204	2.502204	2.495673	2.302028	2.1006	2.071825	2.071825
..	..	..	..	..	..	..	..	..
0.714286	0.714286	0.714286	0.714286	0.715217	0.768725	0.693959	0.679477	0.739508
2.5	2.5	2.5	2.5	2.493475	2.3	2.09875	2.07	2.07
6.956545	7.5	7.5	7.5	7.426338	6.949292	6.0495	6.0949	5.74615
0.805854	0.870834	0.870834	0.870834	0.858823	0.825184	0.794224	0.805604	0.821883
3.449993	4.19997	4.19997	4.19997	4.184418	4.146333	3.821167	3.77375	3.678667
4.93706	4.93706	5.194198	5.55419	5.540601	5.044545	4.45278	4.809618	4.2878
89.765	89.765	94.44	100.985	100.6895	91.64597	81.05022	87.52855	77.93159
246.0009	247.5647	259.9606	276.4031	275.3565	252.0276	222.8892	240.7047	214.3129
1.835314	2.08333	2.08333	2.08333	2.054598	2.001333	1.702405	1.710927	1.808044
..	..	..	..	..	..	..	..	..
4	4	3.943333	3.66	3.507394	3.188642	2.6726	2.58775	2.460292
8.61E-05	0.000102	0.000102	0.000102	0.000103	0.000133	0.000116	0.000115	0.000115
0.362103	0.416667	0.416667	0.416667	0.41092	0.40039	0.408171	0.427756	0.452041
30	30	30	30	30	30.0003	29.62523	30.0003	32.05133
7.00595	7.5	7.5	7.5	7.417596	6.949292	6.0495	6.0949	5.74615
1.761908	2	2	2	1.974873	1.921278	1.959219	2.053232	2.169796
..	..	..	..	..	..	..	..	..
1	1	1	1	1	1	1	1	1
24.685	24.685	24.685	24.685	24.61275	22.73627	20.71609	20.55628	20.67326
246.0009	247.5647	259.9606	276.4031	275.3565	252.0276	222.8892	240.7047	214.3129
1.738099	2	2	2	1.98866	2.087273	2.106176	2.226855	2.355384
5	5	5	5	5	5.000018	5.000008	5.000004	5
2	2	2	2	2	2.000009	2	2	2
5.743158	6.0606	6.0606	6.0606	5.98041	5.641417	5.1465	5.031583	4.935167
..	60	60	60	59.82162	55.26	48.96622	46.7524	43.97138
0.441667	0.621667	0.88	0.88	0.88	0.882604	0.901342	0.999517	1.53695

7.5	7.5	7.5	7.5	7.491935	7.594468	7.742039	8.101603	8.375892
149.5833	296.2917	326	362.8333	391.875	415	415	415	415
75.75	75.75	75.75	75.75	75.75	75.74997	68.88604	67.64134	67.65495
0.357143	0.357143	0.357143	0.357143	935.6178	2144.567	1950.844	1902.265	1902.265
0.362103	0.416667	0.416667	0.416667	0.41092	0.40039	0.408171	0.427756	0.452041
0.362103	0.416667	0.416667	0.416667	0.41092	0.40039	0.408171	0.427756	0.452041
0.000308	0.00035	0.00035	0.00035	0.000379	0.000418	0.000419	0.000445	0.000634
625	625	625	625	620.3593	583.2175	582.9958	650.3433	652.8492
0.724207	0.833334	0.833334	0.833333	0.832802	0.76746	0.90909	0.90909	0.90909
360	360	360	360	350.6777	303.1725	271.7017	292.0825	296.7875
0.357143	0.357143	0.357143	0.357143	0.357143	0.357143	0.328571	0.322092	0.319792
..	..	..	..	..	..	..	..	..
7.14286	7.14286	7.14286	7.14286	7.14286	7.14286	7.001192	7.14286	7.343193
0.892857	0.892857	0.892857	0.892857	0.88267	0.838698	0.704114	0.696666	0.763871
..	..	..	..	..	..	..	..	..
270.5167	276.645	288.1608	310.5558	347.1475	392.8942	398.3217	404.4725	484
..	..	..	..	..	..	..	..	..
0.357143	0.357143	0.357143	0.357143	0.356098	0.328949	0.296572	0.293151	0.290032
..	..	..	..	..	..	..	..	..
240.0005	240.0005	240.0005	240.0005	240.0005	510.001	600.0012	600.0012	725.0014
..	..	..	..	..	..	..	..	..
3.204517	3.156825	3.254583	3.268983	3.227733	3.050717	2.6104	2.327758	2.301983
0.714286	0.714286	0.714286	0.714286	0.715217	0.768725	0.693959	0.679477	0.739508
1	1	1	1	1	1	1	23.71936	46.43873
0.357143	0.357143	0.357143	0.357143	0.356326	0.328947	0.300026	0.296051	0.296051
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
50	50	50	50	49.05698	44.01458	38.9765	38.9515	36.77892
6.075789	6.071579	6.03614	6.051404	5.947368	5.714561	4.928755	5.039764	5.126437
49.3706	49.3706	51.94198	55.5419	55.42633	50.40533	44.57767	48.14075	42.86242
0.724206	0.833333	0.833333	0.833333	0.830894	0.801558	0.819262	0.841203	0.863833
3.06122	3.06122	3.06122	3.06122	3.05226	2.819556	2.44333	2.407067	2.393783
4.760908	4.75	4.75	4.75	4.734417	4.375	3.985667	3.93	5.764833
246.0009	247.5647	259.9606	276.4031	275.3565	252.0276	222.8892	240.7047	214.3129
0.362103	0.416667	0.416667	0.416667	0.407108	0.381577	0.368797	0.385482	0.384783
..	..	..	..	..	..	..	..	..
4.936991	4.936991	5.194157	5.55419	5.542633	5.040533	4.457767	4.533333	4.310425
4.828038	5.55555	5.55555	5.55555	5.485759	5.338526	5.442266	5.703075	6.026797
0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125	0.0125
1	1	1	1	1	1	1	1	1
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
5.06049	5.06049	5.06049	5.06049	5.049959	4.59248	4.106921	4.369767	4.052487
0.02875	0.02875	0.02875	0.02875	0.028312	0.027053	0.024515	0.025408	0.025553
4.7619	4.7619	4.7619	4.7619	4.764843	5.459494	4.931055	4.862524	6.379399

0.71705	0.716998	0.718057	0.716414	0.713048	0.772828	0.694114	0.679477	0.739508
0.892857	0.892857	0.892857	0.892857	0.88267	0.838698	0.704114	0.696666	0.763871
8.034167	10.125	10.125	10.125	10.125	10.125	10.50017	10.56	11.00283
3.62	3.62	3.62	3.62	3.517081	3.2095	2.79555	2.688383	2.528992
89.765	89.765	94.44	100.985	100.6895	91.64597	81.05022	87.52855	77.93159
0.733666	0.892857	0.892857	0.892857	0.880607	0.83668	0.736812	0.715403	0.832307
2.06E-09	2.06E-09	2.06E-09	2.06E-09	2.06E-09	2.06E-09	2.06E-09	2.06E-09	2.06E-09
246.0009	247.5647	259.9606	276.4031	275.3565	252.0276	222.8892	240.7047	214.3129
0.714286	0.714286	0.714286	0.714286	0.712856	0.657895	0.657895	0.630282	0.615502
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
7.14286	7.14286	7.14286	7.14286	7.055905	6.588249	5.765833	5.539708	5.226942
0.362103	0.416667	0.416667	0.416667	0.415447	0.383773	0.350676	0.3454	0.3454
4.7619	4.7619	4.7619	4.7619	4.7619	8.681383	9.99425	9.9	9.9
..	..	..	..	..	..	..	..	..
1	1	1	1	1	1	1	1	1
0.892857	0.892857	0.892857	0.892857	0.882758	0.835039	0.704114	0.696666	0.763893
126	126	126	126	126	126	126	126	126
3.02E-08	3.87E-08	3.87E-08	3.87E-08	3.87E-08	3.87E-08	3.87E-08	3.87E-08	4.04E-08
3.9	3.9	3.9	5.90435	6.431708	6.674842	6.756283	6.787875	7.2479
0.0004	0.0004	0.0004	0.0004	0.000389	0.000368	0.000335	0.000332	0.000332
28.75	28.75	28.75	28.75	28.36017	27.05342	24.51517	25.40817	25.55275
..	..	..	..	..	..	..	..	..
4.7619	4.7619	4.7619	4.7619	4.747963	4.385978	3.996294	3.9474	3.930717
0.0006	0.0006	0.0006	0.0006	0.0006	0.000553	0.001879	0.002	0.002
..	..	..	..	..	..	..	..	..
100	100	100	100	99.70733	92.105	83.922	92.30176	92.27727
0.719503	0.72107	0.72107	0.72107	0.71896	0.67543	0.614953	0.60658	0.632789
..	..	..	..	..	583.2175	582.9958	650.3433	652.8492
0.02875	0.02875	0.02875	0.02875	0.02836	0.027053	0.024515	0.025408	0.025543
4.5	4.5	4.5	4.5	4.486829	4.144753	3.706589	3.55	3.517612
246.0009	247.5647	259.9606	276.4031	275.3565	252.0276	222.8892	240.7047	214.3129
..	..	..	..	..	..	..	..	..
4.828033	5.555546	5.555546	5.555546	5.485763	5.338533	5.442283	5.703092	6.0268
0.724207	0.833333	0.833333	0.833333	0.830894	0.800782	0.816342	0.855461	0.904022
3.06122	3.06122	3.06122	3.06122	3.050702	2.8125	2.457367	2.436867	2.3713
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
0.892857	0.892857	0.892857	0.892857	0.881616	0.8373	0.704114	0.698085	0.763867
7.14286	7.14286	7.14286	7.14286	7.128558	6.980125	6.2815	6.295	6.295
0.714286	0.714286	0.714286	0.714286	0.715217	0.768725	0.693959	0.679477	0.739508
..	..	..	..	..	..	..	..	..
61.66667	70	70	70	69.46867	64.27142	58.26008	57.6865	57.40692
4.861106	5.95237	5.95237	5.95237	5.934949	5.970317	6.4025	6.65075	7.007167
1.761908	2	2	2	1.974873	1.921278	1.959219	2.053232	2.169796
1.761908	2	2	2	1.974873	1.921278	1.959219	2.053232	2.169796







encies to a common currency in order to make comparisons across countries. Since market rates reflect

1976	1977	1978	1979	1980	1981	1982	1983	1984
[YR1976]	[YR1977]	[YR1978]	[YR1979]	[YR1980]	[YR1981]	[YR1982]	[YR1983]	[YR1984]
34.92963	34.92963	34.92963	33.84616	34.36946	38.56166	39.27643	39.27643	39.27643
..	..	..	..	..	..	..	..	..
4.163825	4.146758	3.9659	3.853267	3.83745	4.315808	4.592192	4.7888	4.983375
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
2.94E-08	2.99E-08	2.99E-08	2.99E-08	2.99E-08	2.99E-08	2.99E-08	2.99E-08	2.99E-08
2.614671	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
1.4E-09	4.08E-09	7.96E-09	1.32E-08	1.84E-08	4.4E-08	2.59E-07	1.05E-06	6.76E-06
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
0.818284	0.901825	0.873659	0.894641	0.878244	0.870215	0.985863	1.110015	1.139519
17.93967	16.52692	14.52167	13.3675	12.938	15.92683	17.05925	17.96333	20.00908
..	..	..	..	..	..	..	..	..
1	1	1	1	1	1	1	1	1
0.395599	0.39565	0.387453	0.381617	0.377	0.376	0.376	0.376	0.376
15.39917	15.3751	15.01612	15.55192	15.45406	17.98669	22.11788	24.61542	25.35393
2	2	2	2	2	2	2	2	2
..	..	..	..	..	..	..	..	..
38.60517	35.84275	31.49208	29.31867	29.24167	37.12925	45.69058	51.13167	57.78392
2.225673	2	2	2	2	2	2	2	2
238.9505	245.6797	225.6559	212.7216	211.2796	271.7315	328.6063	381.066	436.9567
1	1	1	1	1	1	1	1	1
8.960413	8.738576	8.19284	8.125791	7.862945	8.658523	9.455132	10.0989	11.36258
2E-05	2E-05	2E-05	2.04E-05	2.45E-05	2.45E-05	6.41E-05	0.000232	0.003136
..	..	..	..	..	..	..	..	..
0.869565	0.84196	0.828157	0.815007	0.777225	0.836738	1.029661	1.096926	1.298373
4.62E-12	6.12E-12	7.82E-12	1.17E-11	2.28E-11	4.03E-11	7.77E-11	2.5E-10	8E-10
..	..	..	..	..	..	..	..	..
2.470842	2.4394	2.274025	2.174558	2.141208	2.112692	2.140025	2.11305	2.133083
..	..	..	..	..	..	..	..	..
238.9505	245.6797	225.6559	212.7216	211.2796	271.7315	328.6063	381.066	436.9567
86.25	90	90	90	90	90	90	92.94833	119.7092
30.22908	34.04649	35.50075	37.433	40.17492	48.69467	58.29333	71.68583	84.87792
..	..	..	..	..	..	..	..	..
238.9505	245.6797	225.6559	212.7216	211.2796	271.7315	328.6063	381.066	436.9567
0.986028	1.063442	1.140659	1.171424	1.169227	1.198903	1.233735	1.232412	1.295066
0.83333	0.83333	0.83333	0.83333	0.83333	0.83333	0.83333	0.83333	0.83333
238.9505	245.6797	225.6559	212.7216	211.2796	271.7315	328.6063	381.066	436.9567
238.9505	245.6797	225.6559	212.7216	211.2796	271.7315	328.6063	381.066	436.9567
..	..	..	..	..	..	..	..	..
13.05417	21.53583	31.65583	37.24583	39	39	50.90833	78.78833	98.4775
1.941415	1.857823	1.683589	1.554939	1.498386	1.704542	1.892542	1.975675	2.320042

34.69392	36.77487	39.09464	42.54977	47.28031	54.49055	64.08472	78.8543	100.8172
238.9485	245.6776	225.6539	212.7198	211.2778	271.7291	328.6035	381.0628	436.953
2.64E-12	2.86E-12	2.79E-12	5.76E-12	9.33E-12	1.46E-11	1.92E-11	4.3E-11	1.2E-10
238.9505	245.6797	225.6559	212.7216	211.2796	271.7315	328.6063	381.066	436.9567
8.57	8.57	8.57	8.57	8.57	21.76333	37.40667	41.09417	44.53268
238.9505	245.6797	225.6559	212.7216	211.2796	271.7315	328.6063	381.066	436.9567
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
0.410496	0.408122	0.373513	0.354444	0.353052	0.421431	0.475386	0.526641	0.588386
..	..	..	..	..	..	..	..	..
6.045025	6.003192	5.514625	5.260958	5.635942	7.123367	8.332442	9.144992	10.35659
177.721	177.721	177.721	177.721	177.721	177.721	177.721	177.721	177.721
2.614671	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
1	1	1	1	1	1	1	1	1
25	25	25	25	25	25	30.02583	44.11501	62.5359
0.391304	0.391304	0.391304	0.700001	0.700001	0.700001	0.700001	0.700001	0.700001
2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
238.9505	245.6797	225.6559	212.7216	211.2796	271.7315	328.6063	381.066	436.9567
2.071825	2.071825	2.071825	2.071825	2.071825	2.071825	2.071825	2.071825	2.071825
..	..	..	..	..	..	..	..	..
0.869565	0.869565	0.869565	0.842023	0.778834	0.877579	1.085816	1.1141	1.475277
2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
6.045025	6.003192	5.514625	5.260958	5.635942	7.123367	8.332442	9.144992	10.35659
0.897715	0.91744	0.846771	0.835743	0.817965	0.854627	0.932449	1.01702	1.082597
3.864417	4.029417	4.117333	3.895333	3.730083	4.31525	4.820417	5.570083	6.01
4.802878	4.905173	4.5131	4.254417	4.225575	5.434608	6.5721	7.621292	8.7391
86.89067	89.33764	82.05628	77.35295	76.82856	98.81096	119.4926	138.5688	158.8926
238.9505	245.6797	225.6559	212.7216	211.2796	271.7315	328.6063	381.066	436.9567
2.225673	2.293019	2.085745	1.888416	1.720983	1.99017	2.28951	2.638575	3.584058
..	..	..	..	..	..	..	..	..
2.518	2.322183	2.008625	1.832883	1.817667	2.26	2.426592	2.553258	2.845942
0.000115	0.000115	0.000176	0.000275	0.000275	0.000275	0.000275	0.000883	0.003597
0.55651	0.573272	0.521505	0.472181	0.430295	0.497641	0.572447	0.659725	0.751807
36.51758	36.83842	36.74542	37.03842	42.61658	55.40842	66.80317	88.06425	112.7166
6.045025	6.003192	5.514625	5.260958	5.635942	7.123367	8.332442	9.144992	10.35659
2.614671	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
..	..	..	..	..	..	..	..	..
1	1	1	1	1	1	1	1	1
21.38196	21.14448	19.72354	19.10701	18.96889	20.94812	22.36603	23.09518	24.08994
238.9505	245.6797	225.6559	212.7216	211.2796	271.7315	328.6063	381.066	436.9567
2.55	2.55	2.55	2.55	2.55	2.8125	3	3	3.831572
5	5	5	5	5	5	5	5	5
2	2	2	2	2	2	2	2	2
4.90475	4.662	4.683667	5.002667	4.976083	5.589333	6.069917	7.265167	7.818
41.57527	40.96075	37.91135	35.578	32.53228	34.31429	36.63055	42.67115	48.04221
1.821717	1.9887	2.711108	3.526	4.797642	7.224183	12.35153	24.84277	31.69374

8.960413	8.738576	8.19284	8.125791	7.862945	8.658523	9.455132	10.0989	11.36258
415	415	442.0454	623.0555	626.994	631.7567	661.4207	909.2648	1025.945
70.23907	70.63373	70.49203	70.49203	70.63185	78.34685	83.62267	86.37874	90.05144
1902.265	1902.265	1902.265	1902.265	1902.265	1902.265	1922.925	2002.386	2002.386
0.55651	0.573272	0.521505	0.488595	0.486645	0.621298	0.704562	0.804678	0.922553
0.55651	0.573272	0.521505	0.472181	0.430295	0.497641	0.572447	0.659725	0.751807
0.000793	0.001045	0.001744	0.002541	0.005124	0.011431	0.024267	0.056214	0.29321
832.335	882.3883	848.6633	830.8617	856.4475	1136.765	1352.51	1518.848	1756.961
0.90909	0.90909	1.413258	1.764778	1.78142	1.78142	1.78142	1.932217	3.942804
296.5525	268.51	210.4417	219.14	226.7408	220.5358	249.0767	237.5117	237.5225
0.331983	0.329267	0.305625	0.300333	0.297925	0.330433	0.352492	0.363079	0.384465
..	..	..	..	..	..	..	..	..
8.367145	8.276561	7.729383	7.475309	7.420187	9.047498	10.92232	13.31152	14.41387
0.818284	0.901825	0.873659	0.894641	0.878244	0.870215	0.985863	1.110015	1.139519
..	..	..	..	..	..	..	..	..
484	484	484	484	607.4325	681.0283	731.0842	775.7483	805.9758
..	..	..	..	..	..	..	..	..
0.292387	0.286566	0.275053	0.276366	0.270297	0.278785	0.287911	0.291477	0.296062
..	..	..	..	..	..	..	..	..
429.1673	200	333.3333	367.5	10	21.66667	35	35	35
..	..	..	..	..	..	..	..	..
2.871592	3.068958	2.955375	3.24275	3.436108	4.313875	4.743533	4.528167	6.511092
0.869565	0.869565	0.869565	0.842023	0.778834	0.877579	1.085816	1.1141	1.475277
46.43873	46.43873	46.43873	46.43873	46.43873	46.43873	46.43873	46.43873	46.43873
0.296051	0.296051	0.296051	0.296051	0.296051	0.296052	0.296053	0.296053	0.296053
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
38.60517	35.84275	31.49208	29.31867	29.24167	37.12925	45.69058	51.13167	57.78392
6.061449	5.573785	5.029167	5.176667	5.095	5.751667	6.225833	7.464167	8.03535
47.78992	49.13575	45.131	42.54417	42.25575	54.34608	69.94717	86.08983	115.3285
0.913011	0.902928	0.843745	0.816878	0.812096	0.895299	1.055509	1.174763	1.41338
2.541575	2.461283	2.316042	2.188442	2.176883	2.304125	2.335392	2.32125	2.343642
8.364667	8.76675	8.96875	7.488583	7.55	7.55	7.173667	7.05	7.05
238.9505	245.6797	225.6559	212.7216	211.2796	271.7315	328.6063	381.066	436.9567
0.425136	0.422309	0.385383	0.35847	0.345427	0.386701	0.412142	0.432449	0.461034
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
4.502225	4.558708	4.61625	4.58925	4.591408	4.829583	5.176917	5.481167	6.380333
6.681525	6.607308	6.163275	6.308108	7.684292	8.936542	10.87255	11.7062	13.80033
0.015426	0.022573	0.022767	0.022805	0.022951	0.024515	0.056402	0.120094	0.167828
1	1	1	1	1	1	1	1	1
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
4.419312	4.503346	4.166671	3.899134	3.936646	5.172296	6.023022	7.111323	8.810536
0.030229	0.030407	0.03	0.03	0.0324	0.03535	0.03777	0.040183	0.042443
6.706749	7.0676	6.79826	6.585761	6.538142	7.220337	7.709064	7.960397	8.303267







at best the relative prices of tradable goods, the volume of goods and services that a U.S. dollar buys in



1985	1986	1987	1988	1989	1990	1991	1992	1993
[YR1985]	[YR1986]	[YR1987]	[YR1988]	[YR1989]	[YR1990]	[YR1991]	[YR1992]	[YR1993]
39.27643	39.27643	39.27643	39.27643	39.27643	39.27643	39.27643	39.27643	39.27643
..	..	..	..	..	..	..	75.0325	102.0625
5.0278	4.702317	4.849742	5.914767	7.608558	8.957508	18.47288	21.83608	23.34541
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
2.99E-08	2.99E-08	2.99E-08	2.99E-08	2.99E-08	2.99E-08	5.51E-08	2.51E-07	2.66E-06
2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
6.02E-05	9.43E-05	0.000214	0.000875	0.042334	0.487589	0.953554	0.990642	0.998946
..	..	..	..	..	..	..	..	9.105
..	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79
1.431895	1.495974	1.42818	1.279908	1.264597	1.281057	1.283756	1.361648	1.47056
20.6895	15.26713	12.6425	12.34767	13.23067	11.36983	11.67592	10.98933	11.63218
..	..	..	..	..	..	..	0.01084	0.019995
1	1	1	1	1	1	1	1	1
0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.376
27.99459	30.4069	30.94983	31.73325	32.27	34.56881	36.59618	38.95076	39.56726
2	2	2	2	2	2	2	2	2
..	..	..	..	..	..	..	..	..
59.378	44.67192	37.33408	36.76833	39.404	33.41792	34.14825	32.1495	34.59652
2	2	2	2	2	2	2	2	2
449.263	346.3059	300.5366	297.8482	319.0083	272.2648	282.1069	264.6918	283.1626
1	1	1	1	1	1	1	1	1
12.36875	12.61083	12.9615	13.91708	16.2255	17.5035	22.74243	25.91808	30.49329
0.440029	1.921958	2.05485	2.350242	2.691683	3.17265	3.580608	3.900517	4.265083
..	..	..	..	..	..	..	..	..
1.902567	1.879144	1.678941	1.828588	2.014886	1.860466	2.021557	2.109725	2.423075
2.68E-09	5.91E-09	1.7E-08	1.14E-07	1.23E-06	2.96E-05	0.000176	0.001953	0.038277
..	..	..	..	..	..	..	..	..
2.20015	2.177417	2.105983	2.012425	1.950258	1.812533	1.72755	1.628967	1.615791
..	..	..	..	..	..	0.017788	0.023341	0.027594
449.263	346.3059	300.5366	297.8482	319.0083	272.2648	282.1069	264.6918	283.1626
120.6907	114.1711	123.5638	140.395	158.6667	171.2554	181.5126	208.3027	242.78
91.63167	80.14492	72.46583	72.0675	77.97808	70.03133	71.40833	68.01758	80.4266
..	..	..	..	..	426.25	718.3333	1266.583	2689
449.263	346.3059	300.5366	297.8482	319.0083	272.2648	282.1069	264.6918	283.1626
1.365507	1.389471	1.325983	1.230701	1.183972	1.166774	1.145726	1.208723	1.290088
0.833333	0.833333	0.833333	0.833333	0.833333	0.833333	0.833333	0.833333	0.833333
449.263	346.3059	300.5366	297.8482	319.0083	272.2648	282.1069	264.6918	283.1626
449.263	346.3059	300.5366	297.8482	319.0083	272.2648	282.1069	264.6918	283.1626
..	..	..	..	..	..	..	..	..
160.86	192.93	219.4067	245.0117	266.9542	304.9033	349.2158	362.5758	404.1658
2.936658	3.452792	3.7221	3.7221	3.765108	4.783208	5.323392	5.514592	5.761958

142.3117	194.2614	242.6075	299.1738	382.5681	502.2593	633.0452	759.282	863.0647
449.2592	346.303	300.534	297.8457	319.0056	272.2625	282.1045	264.6896	283.1602
1.66E-10	1.99E-10	3.75E-10	6.23E-10	1.27E-09	2.39E-09	5.19E-08	2.15E-06	2.51E-05
449.263	346.3059	300.5366	297.8482	319.0083	272.2648	282.1069	264.6918	283.1626
50.45335	55.98589	62.7762	75.80473	81.50421	91.57929	122.4324	134.5063	142.1717
449.263	346.3059	300.5366	297.8482	319.0083	272.2648	282.1069	264.6918	283.1626
..	..	..	..	..	..	..	0.263298	3.579149
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
0.612552	0.518143	0.481097	0.466629	0.494625	0.45808	0.464429	0.449549	0.497405
..	..	..	..	..	..	..	..	29.15283
10.59639	8.090992	6.840317	6.731525	7.310175	6.188558	6.396458	6.036133	6.483939
177.721	177.721	177.721	177.721	177.721	177.721	177.721	177.721	177.721
2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
3.112608	2.904333	3.844758	6.112517	6.34	8.5253	12.57592	12.5	12.5
69.55625	122.7792	170.4617	301.6108	526.3483	767.7508	1046.249	1533.962	1919.105
0.700001	0.700001	0.700001	0.700001	0.866667	1.55	3.138008	3.321748	3.352518
2.5	4.85215	5	5	5	6.848333	8.016667	8.360833	8.702508
449.263	346.3059	300.5366	297.8482	319.0083	272.2648	282.1069	264.6918	283.1626
2.071825	2.071825	2.071825	2.071825	2.071825	2.071825	2.071825	2.804971	5.004408
..	..	..	..	..	..	..	..	13.22275
2.228675	2.285032	2.036033	2.273468	2.622678	2.587321	2.761315	2.852014	3.267742
2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.8025	5
10.59639	8.090992	6.840317	6.731525	7.310175	6.188558	6.396458	6.036133	6.483939
1.153554	1.132866	1.243858	1.430258	1.483333	1.480908	1.475558	1.502991	1.541775
6.197896	5.06952	4.395565	4.182833	4.291216	3.823505	4.043979	4.47944	5.712292
8.985225	6.926092	6.010708	5.956942	6.380142	5.445275	5.642117	5.293816	5.66323
163.3676	125.9288	109.2855	108.3079	116.0025	99.0049	102.5838	96.2511	102.9677
449.263	346.3059	300.5366	297.8482	319.0083	272.2648	282.1069	264.6918	283.1626
3.893874	6.924971	7.0744	6.708423	7.583583	7.878992	8.733141	8.895715	9.114419
..	..	..	..	..	..	..	..	..
2.943967	2.171483	1.797392	1.756225	1.880042	1.615733	1.659542	1.56165	1.653321
0.005434	0.008916	0.015365	0.020224	0.026985	0.032616	0.036763	0.043685	0.064871
0.779246	0.682197	0.611927	0.56217	0.611173	0.563177	0.567015	0.569774	0.666757
138.1191	139.9812	135.4295	141.8605	162.4166	158.5139	182.2664	190.6243	229.2498
10.59639	8.090992	6.840317	6.731525	7.310175	6.188558	6.396458	6.036133	6.483939
2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
..	..	..	..	..	..	..	..	..
1	1.875	2.5	2.619583	2.816117	4.485758	5.02888	5.17063	5.635363
24.3331	333.4525	428.4025	474.3958	591.6458	660.1667	753.8581	902.0013	955.4903
449.263	346.3059	300.5366	297.8482	319.0083	272.2648	282.1069	264.6918	283.1626
4.251855	4.272417	9.755833	10	27.15875	39.53333	111.8107	125.0025	126.7304
5	5	5	5	5	5	6.034167	9.801667	12.8225
2	2	2	2	2	4.111983	5.316667	5.497917	6.471583
7.79075	7.803333	7.79825	7.806	7.799917	7.78975	7.771167	7.740583	7.735583
50.1194	45.83215	46.97054	50.41321	59.06634	63.20587	74.73538	78.98839	91.93318
41.50767	41.10416	38.67718	43.01398	57.04179	58.28378	58.99634	57.54593	67.60318

12.36875	12.61083	12.9615	13.91708	16.2255	17.5035	22.74243	25.91808	30.49329
1110.58	1282.56	1643.848	1685.704	1770.059	1842.813	1950.318	2029.921	2087.104
91.07359	78.77878	71.47744	68.69976	72.03224	68.11237	67.52173	65.56784	1268.079
2002.386	2002.386	2002.386	2002.386	2002.386	2002.386	2002.386	2002.386	2002.386
0.945615	0.743128	0.672917	0.656468	0.705543	0.604588	0.621298	0.587721	0.677249
0.779246	0.682197	0.611927	0.56217	0.611173	0.563177	0.567015	0.569774	0.666757
1.178849	1.487842	1.594642	1.598933	1.916417	2.016175	2.279108	2.459083	2.830083
1909.439	1490.81	1296.07	1301.628	1372.093	1198.102	1240.613	1232.406	1573.666
5.558558	5.477833	5.486667	5.488554	5.744642	7.184025	12.11588	22.96035	24.94855
238.5358	168.5198	144.6375	128.1517	137.9644	144.7925	134.7067	126.6513	111.1978
0.394625	0.349966	0.338459	0.374293	0.574576	0.663712	0.680866	0.679818	0.692851
..	..	..	..	..	..	..	..	..
16.43212	16.22574	16.45449	17.7471	20.57247	22.91477	27.50787	32.21683	58.00133
1.431895	1.495974	1.42818	1.279908	1.264597	1.281057	1.283756	1.361648	1.47056
..	..	..	..	..	..	..	..	..
870.02	881.4542	822.5675	731.4683	671.4558	707.7642	733.3533	780.6508	802.6708
..	..	..	..	..	..	..	..	..
0.300753	0.290595	0.278663	0.279029	0.293779	0.288455	0.284269	0.293223	0.301839
..	..	..	..	..	..	..	..	..
55	95	187.5	400.375	591.5	707.75	702.0833	716.0833	716.25
..	..	..	..	..	..	..	0.736467	0.675333
16.41702	38.36992	224.5963	409.23	496.6892	695.0892	928.2275	1712.791	1741.363
2.228675	2.285032	2.036033	2.273468	2.622678	2.587321	2.761315	2.852014	3.267742
46.43873	46.43873	46.43873	46.43873	46.43873	46.43873	46.43873	46.43873	46.43873
0.296053	0.315396	0.297029	0.285766	0.299602	0.283177	0.280728	0.281553	0.30437
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	1.77275	4.344063
59.378	44.67192	37.33408	36.76833	39.404	33.41792	34.14825	32.1495	34.59652
7.998842	8.013158	8.009808	8.040592	8.033883	8.020992	8.00425	7.972342	7.96755
132.4955	135.2682	213.8427	281.4213	320.6875	298.8293	367.072	372.7933	382.7565
1.719097	1.861073	2.208743	2.561301	2.759524	2.728882	2.803313	3.603275	4.402778
2.483042	2.581442	2.519638	2.618783	2.708842	2.704875	2.750067	2.547383	2.574095
7.098083	7.150733	9.223	8.784583	9.040833	9.551742	10.25267	10.56917	10.95699
449.263	346.3059	300.5366	297.8482	319.0083	272.2648	282.1069	264.6918	283.1626
0.469155	0.392992	0.345492	0.330857	0.348493	0.31779	0.323243	0.318923	0.382289
..	..	..	..	..	..	..	..	..
7.7085	7.4375	7.387833	7.526083	8.3051	8.0609	8.194583	8.702675	12.08058
15.44248	13.46636	12.87822	13.43773	15.24977	14.86347	15.65231	15.56321	17.64803
0.256872	0.611773	1.378183	2.273105	2.461473	2.812599	3.01843	3.094898	3.115617
1	1	1	1	1	1	1	1	1
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	8.011667	35.83333	295.0105
..	..	..	..	..	..	..	..	..
10.06249	9.104442	8.359225	8.20915	8.48817	8.242342	8.70655	8.537875	9.298709
0.043181	0.040429	0.290731	0.524645	0.744918	0.929089	1.434468	2.516554	3.874237
8.47485	7.330375	6.65345	6.394542	6.7049	6.338558	6.2837	6.104533	6.156967







the United States may not correspond to what a U.S. dollar converted to another country's currency at 1

1994	1995	1996	1997	1998	1999	2000	2001	2002
[YR1994]	[YR1995]	[YR1996]	[YR1997]	[YR1998]	[YR1999]	[YR2000]	[YR2001]	[YR2002]
38.81846	36.56714	47.5	47.5	47.5	46.61953	47.35757	47.50001	47.263
94.62333	92.6975	104.4989	148.9329	150.6333	137.6906	143.7094	143.4848	140.1545
35.0585	47.66273	54.74893	57.70735	58.73896	66.57388	75.25979	77.21502	79.6819
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
5.95E-05	0.00275	0.128029	0.22904	0.392824	2.790706	10.04054	22.05786	43.53021
2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
0.999008	0.99975	0.999663	0.9995	0.9995	0.9995	0.9995	0.9995	3.063257
288.6508	405.9083	414.0415	490.8468	504.915	535.0618	539.5258	555.0783	573.3533
1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79
1.367751	1.349033	1.277863	1.34738	1.591828	1.54995	1.724827	1.933443	1.840563
11.42182	10.0815	10.58656	12.20424	12.37907	..	..	..	..
0.314045	0.882709	0.860253	0.797075	0.7738	0.824033	0.894831	0.931317	0.972164
1	1	1	1	1	1	1	1	1
0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.376
40.21174	40.27832	41.79417	43.89212	46.90565	49.0854	52.14167	55.80667	57.888
2	2	2	2	2	2	2	2	2
..	11.52097	13.22988	26.02055	46.12762	249.2953	876.75	1390	1790.917
33.4565	29.48002	30.96151	35.77389	36.29864	..	..	..	..
2	2	2	2	2	2	2	2	2
555.2047	499.1484	511.5524	583.6694	589.9518	615.6991	711.9763	733.0385	696.9882
1	1	1	1	1	1	1	1	1
31.37374	32.42708	35.43317	36.31329	41.25937	43.05543	44.94161	47.18641	48.61032
4.620517	4.800342	5.074613	5.254258	5.510133	5.812408	6.183542	6.606917	7.17
..	..	..	1.734056	1.759668	1.835795	2.12286	2.18566	2.07817
2.684646	2.772207	3.324197	3.650763	4.22588	4.624395	5.102242	5.841417	6.327792
0.664684	0.917667	1.0051	1.077992	1.160517	1.813933	1.829423	2.349632	2.920363
..	..	..	..	..	..	..	..	..
1.527444	1.417375	1.410041	1.484806	1.673602	1.694957	1.723963	1.791723	1.790588
0.054134	0.067171	0.177889	1.681879	1.760358	1.836383	2.123275	2.184708	2.076975
555.2047	499.1484	511.5524	583.6694	589.9518	615.4733	710.208	732.3977	693.7132
252.6625	249.7575	302.7467	352.3508	447.7658	563.5625	720.6733	830.3533	930.7492
81.89083	76.85333	82.59147	93.17667	98.1575	102.7	115.8766	123.2133	117.2558
2545.25	2450.833	2624.083	2946.25	3744.417	3807.833	3840.75	3916.333	3912.083
555.2047	499.1484	511.5524	583.6694	589.9518	615.4733	710.208	732.3977	693.7132
1.365673	1.372445	1.363522	1.384598	1.483505	1.485705	1.485394	1.54884	1.570343
0.83333	0.83333	0.83333	0.83333	0.83333	0.83333	0.83333	0.83333	0.83333
555.2047	499.1484	511.5524	583.6694	589.9518	615.4733	710.208	732.3977	693.7132
555.2047	499.1484	511.5524	583.6694	589.9518	615.4733	710.208	732.3977	693.7132
..	..	..	..	..	..	..	..	..
420.1767	396.7733	412.2667	419.295	460.2875	508.7767	539.5875	634.9383	688.9367
8.618743	8.351417	8.314175	8.289817	8.278958	8.27825	8.278504	8.277068	8.276958



844.8359	912.8264	1036.686	1140.963	1426.037	1756.231	2087.904	2299.633	2504.241
416.3988	374.3571	383.66	437.7471	442.4588	461.793	532.656	549.2983	520.2849
0.011941	0.070245	0.501849	1.313448	1.60666	4.018333	21.81833	206.6175	346.485
555.2047	499.1484	511.5524	583.6694	589.9518	615.4733	710.208	732.3977	693.7132
157.0667	179.7292	207.6892	232.5975	257.2292	285.6847	308.1867	328.8708	359.8175
555.2047	499.1484	511.5524	583.6694	589.9518	615.4733	710.208	732.3977	693.7132
5.998011	5.230756	5.434161	6.160583	6.363286	7.111743	8.277666	8.341541	7.871683
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
0.492191	0.45242	0.466311	0.513897	0.517826	0.542948	0.622409	0.643107	0.61066
28.78508	26.54067	27.14492	31.69842	32.28117	34.56925	38.59842	38.03533	32.73852
6.360552	5.602367	5.798672	6.604459	6.700827	6.97624	8.083144	8.322818	7.894714
177.721	177.721	177.721	177.721	177.721	177.721	177.721	177.721	177.721
2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
12.61678	12.87	12.89635	14.00592	14.70311	15.83443	16.18146	16.69096	17.59304
2196.728	2564.494	3189.474	3998.267	5446.573	11786.8	1	1	1
3.385133	3.392208	3.391483	3.38875	3.388	3.39525	3.47205	3.973	4.499667
8.72875	8.754583	8.755	8.75625	8.755	8.755	8.755	1	1
555.2047	499.1484	511.5524	583.6694	589.9518	615.6991	711.9763	733.0385	696.9882
5.469818	6.163763	6.357275	6.758822	7.36193	8.152633	9.625	11.30945	13.95819
12.99125	11.46475	12.038	13.88175	14.07467	14.67758	16.96864	17.47807	16.61179
3.550798	3.627085	4.299349	4.607962	5.528284	6.109484	6.939828	8.609181	10.54075
5.465	6.158333	6.351675	6.709342	7.115908	7.94225	8.217258	8.457492	8.56775
6.360552	5.602367	5.798672	6.604459	6.700827	6.97624	8.083144	8.322818	7.894714
1.464125	1.406333	1.4033	1.443675	1.986817	1.969625	2.128625	2.276603	2.186783
5.223513	4.366667	4.59355	5.191435	5.344066	..	..	..	..
5.552045	4.991483	5.115523	5.836692	5.899516	..	..	..	..
100.9462	90.75414	93.00941	106.1216	107.2638	111.9669	129.201	133.2378	126.2003
555.2047	499.1484	511.5524	583.6694	589.9518	615.4733	710.208	732.3977	693.7132
9.581771	9.544265	9.797173	10.20017	10.6431	11.39509	12.78763	15.68716	19.91783
..	..	1.2628	1.2975	1.389817	2.024517	1.976167	2.073017	2.195675
1.622794	1.433133	1.504774	1.734056	1.759668	..	..	..	..
0.095568	0.119914	0.163547	0.204796	0.231166	0.266643	0.544919	0.716305	0.792417
0.653427	0.633668	0.640958	0.610836	0.603824	0.618057	0.660931	0.694655	0.667223
242.6028	231.6627	240.7115	273.0579	295.5291	305.6466	365.3986	..	..
6.360552	5.602367	5.798672	6.604459	6.700827	6.97624	8.083144	8.322818	7.894714
2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
..	..	..	..	..	..	..	..	..
5.751201	5.810343	6.049513	6.065269	6.394653	7.38561	7.763159	7.858593	7.821645
976.6364	991.4115	1004.017	1095.326	1236.832	1387.401	1746.87	1950.558	1975.844
555.2047	499.1484	511.5524	583.6694	589.9518	615.4733	710.208	732.3977	693.7132
138.2902	141.9892	140.375	142.4008	150.5192	177.995	182.43	187.3208	190.665
15.04	15.10973	15.70115	16.6545	16.76567	16.93789	21.17067	24.42908	29.25048
8.408758	9.470987	11.7053	13.00347	13.38502	14.21317	14.8392	15.47367	16.43338
7.728417	7.735833	7.734254	7.742083	7.745333	7.7575	7.791167	7.79875	7.798917
105.1605	125.6814	152.6467	186.7892	214.4017	237.1458	282.1792	286.49	257.8867
69.94438	64.69167	66.5	70.90429	70.95833	72.33529	78.61595	97.4246	91.66167

31.37374	32.42708	35.43317	36.31329	41.25937	43.05543	44.94161	47.18641	48.61032
2160.754	2248.608	2342.296	2909.38	10013.62	7855.15	8421.775	10260.85	9311.192
1749.174	1748.35	1751.186	1753.345	1752.286	1753.355	1764.856	1753.986	6907.034
2002.387	2002.387	2002.387	2002.387	2002.387	2002.39	2002.403	2002.405	2002.373
0.668628	0.623733	0.625028	0.659643	0.702271	..	..	..	..
0.653427	0.633668	0.640958	0.610836	0.603824	0.618057	0.660931	0.694655	0.667223
3.011055	3.011292	3.19165	3.44935	3.800075	4.139717	4.077333	4.20565	4.737825
1612.445	1628.933	1542.947	1703.097	1736.207	..	..	..	..
33.08593	35.14212	37.11956	35.40447	36.55	39.04352	42.9857	45.99625	48.41594
102.2078	94.05958	108.7791	120.9909	130.9053	113.9068	107.7655	121.5289	125.388
0.698764	0.700378	0.709	0.709	0.709	0.709	0.709	0.708983	0.709
35.53833	60.95	67.30333	75.4375	78.30333	119.5233	142.1333	146.7358	153.2792
56.05058	51.42983	57.11487	58.73184	60.3667	70.32622	76.17554	78.5632	78.74914
1.367751	1.349033	1.277863	1.34738	1.591828	1.54995	1.724827	1.933443	1.840563
..	..	..	..	..	..	..	..	..
803.4458	771.2733	804.4533	951.2892	1401.437	1188.817	1130.958	1290.995	1251.088
..	..	..	..	..	..	..	..	1.057559
0.29687	0.298448	0.299409	0.303349	0.304756	0.304415	0.306752	0.306682	0.303914
10.84168	10.82188	12.80956	17.36249	20.83757	39.00773	47.70383	48.37796	46.93707
717.6666	804.6908	921.0217	1259.979	3298.333	7102.025	7887.643	8954.583	10056.33
0.55975	0.527583	0.55075	0.580917	0.589833	0.585167	0.6065	0.627917	0.618192
1680.073	1621.413	1571.444	1539.45	1516.132	1507.5	1507.5	1507.5	1507.5
3.550798	3.627085	4.299349	4.607962	5.528284	6.109484	6.939828	8.609181	10.54075
46.43873	49.83833	46.8375	50.57	41.5075	41.9025	40.9025	48.59191	61.75417
0.348368	0.418145	0.4368	0.460866	0.467574	0.463811	0.51219	0.605064	1.270679
..	..	..	..	..	..	..	..	..
3.97775	4	4	4	4	4	4	4	3.676958
33.4565	29.48002	30.96151	35.77389	36.29864	..	..	..	..
7.960283	7.967758	7.9664	7.975292	7.978767	7.99185	8.0259	8.0335	8.033433
613.4672	853.1263	812.2503	1018.177	1088.28	1256.755	1353.496	1317.699	1366.391
8.736405	15.28374	15.30847	16.44418	31.07268	44.08814	59.54381	72.19733	76.68661
2.624257	2.504404	2.515943	2.813192	3.924375	3.8	3.8	3.8	3.8
11.58575	11.77	11.77	11.77	11.77	11.77	11.77	12.24208	12.8
555.2047	499.1484	511.5524	583.6694	589.9518	615.4733	710.208	732.3977	693.7132
0.377921	0.353059	0.360456	0.385966	0.38846	0.398898	0.43815	0.450042	0.43362
..	..	..	..	..	..	..	..	..
12.3575	12.97683	13.72217	15.18533	18.84758	20.95142	23.89233	25.56292	27.17392
17.96037	17.38632	17.94807	21.05726	23.99265	25.18581	26.24956	29.12926	29.962
3.375117	6.419425	7.599448	7.91846	9.136042	9.560398	9.455558	9.342342	9.655958
1	1	1	1	1	1	1	1	1
..	4.4958	4.604483	4.623583	5.3707	10.51581	12.43422	12.86514	13.5705
..	..	..	..	..	..	..	..	..
412.7214	448.6126	548.4033	789.9925	840.8283	1021.868	1076.667	1097.698	1110.31
..	..	..	..	..	0.938283	1.082705	1.116533	1.057559
9.202715	8.540236	8.715876	9.527107	9.604416	9.804419	10.62564	11.30298	11.02058
6.038588	9.024333	11.29375	11.54358	11.87458	12.77511	15.22725	20.70364	23.67796
5.974913	5.667042	5.917567	6.241833	6.343158	6.285792	6.516725	6.748908	6.642083







the official exchange rate would buy in that country, particularly when nontradable goods and services a

2003	2004	2005	2006	2007	2008	2009	2010	2011
[YR2003]	[YR2004]	[YR2005]	[YR2006]	[YR2007]	[YR2008]	[YR2009]	[YR2010]	[YR2011]
48.76275	47.84531	49.4946	49.92533	49.96202	50.24961	50.325	46.45246	46.74701
121.8633	102.7801	99.87025	98.10338	90.42789	83.8946	94.97812	103.9367	100.8958
77.39498	72.06065	73.27631	72.64662	69.2924	64.5828	72.64742	74.38598	72.93788
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
74.6063	83.54136	87.15914	80.36807	76.70614	75.03335	79.32817	91.90572	93.93475
2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
2.900629	2.923301	2.903658	3.054313	3.095649	3.144165	3.710107	3.896295	4.11014
578.763	533.4508	457.6869	416.0404	342.0791	305.9694	363.2833	373.6605	372.5009
1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79
1.541914	1.359753	1.309473	1.327973	1.195073	1.192178	1.282189	1.090159	0.969463
..	..	..	..	..	..	..	..	..
0.982146	0.982696	0.945421	0.893445	0.858124	0.82162	0.803783	0.80265	0.789686
1	1	1	1	1	1	1	1	1
0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.376
58.15004	59.51266	64.32748	68.93323	68.87488	68.59828	69.03907	69.64929	74.1524
2	2	2	2	2	2	2	2	2
2051.271	2160.258	2153.82	2144.564	2146.078	2136.398	2793.049	2978.51	4974.633
..	..	..	..	..	..	..	..	..
2	2	2	2	2	2	2	2	2
581.2003	528.2848	527.4681	522.8901	479.2668	447.8053	472.1863	495.277	471.8661
1	1	1	1	1	1	1	1	1
46.58328	45.31647	44.09998	45.30701	41.34853	43.50518	48.40527	45.72581	46.67047
7.659167	7.936267	8.066063	8.011617	7.851245	7.238321	7.02	7.016667	6.936963
1.732932	1.575157	1.572722	1.559072	1.429003	1.335196	1.407891	1.47674	1.406937
4.949667	4.693833	5.11675	5.8303	6.139408	6.826858	7.155142	6.793625	6.838233
3.077475	2.925119	2.43439	2.175327	1.947058	1.833767	1.999428	1.759227	1.672829
..	..	..	..	..	..	..	..	..
1.742183	1.690228	1.664398	1.588933	1.507102	1.417167	1.454569	1.363509	1.257913
1.732702	1.575109	1.574133	1.559267	1.42905	1.337117	1.406692	1.477392	1.406458
579.8974	527.338	527.2584	522.4256	478.6337	446	470.2934	494.7943	471.2486
1082.62	1100.9	1081.577	1028.684	1081.87	1185.691	1230.179	1230.748	1261.073
97.7875	88.74792	88.64617	87.92606	80.61503	75.336	80.03542	83.27869	79.27688
3973.333	4016.25	4092.5	4103.25	4056.167	4054.167	4139.333	4184.917	4058.5
579.8974	527.338	527.2584	522.4256	478.6337	446	470.2934	494.7943	471.2486
1.401015	1.301282	1.211405	1.134345	1.074046	1.067087	1.141535	1.030113	0.989258
0.83333	0.83333	0.83333	0.83333	0.83333	0.83333	0.83333	0.83333	0.83333
579.8974	527.338	527.2584	522.4256	478.6337	446	470.2934	494.7943	471.2486
579.8974	527.338	527.2584	522.4256	478.6337	446	470.2934	494.7943	471.2486
..	..	..	..	..	..	..	..	..
691.3975	609.5292	559.7675	530.275	522.4642	522.461	560.8599	510.2492	483.6675
8.277037	8.276801	8.194317	7.973438	7.607533	6.948655	6.831416	6.770269	6.461461

2877.652	2628.613	2320.834	2361.139	2078.292	1967.711	2158.256	1898.57	1848.139
434.9231	395.5035	395.4438	391.8192	358.9753	334.5	352.7201	371.0957	353.4365
405.1782	399.4758	473.908	468.2788	516.7499	559.2925	809.7858	905.9135	919.4913
579.8974	527.338	527.2584	522.4256	478.6337	446	470.2934	494.7943	471.2486
398.6622	437.935	477.7867	511.3018	516.6174	526.2355	573.288	525.8292	505.6642
579.8974	527.338	527.2584	522.4256	478.6337	446	470.2934	494.7943	471.2486
6.704969	6.034341	5.949237	5.837793	5.364536	4.93504	5.283946	5.498011	5.34387
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	1.79
0.517443	0.468601	0.464071	0.458916	0.426125	..	..	..	..
28.209	25.69975	23.95742	22.59558	20.29367	17.07167	19.063	19.09825	17.69592
6.587673	5.991057	5.99691	5.946778	5.443701	5.098131	5.360867	5.624075	5.368712
177.721	177.721	177.721	177.721	177.721	177.721	177.721	177.721	177.721
2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
29.37	41.93031	30.28281	33.30004	33.17187	34.52936	35.97187	36.82129	38.08758
1	1	1	1	1	1	1	1	1
5.850875	6.196242	5.778833	5.733167	5.635433	5.4325	5.544553	5.621943	5.932828
1	1	1	1	1	1	1	1	1
581.2003	528.2848	527.4681	522.8901	479.2668	447.8053	472.1863	495.277	471.8661
13.87789	13.7875	15.36792	15.375	15.375	15.375	15.375	15.375	15.375
13.85641	12.59556	12.58379	12.46548	11.43385	10.69444	11.25743	11.80685	..
7.564749	6.459693	6.359328	6.771549	7.045365	8.261223	8.473674	7.321222	7.261132
8.599683	8.635583	8.666442	8.698616	8.96595	9.599742	11.7776	14.40959	16.89923
6.587673	5.991057	5.99691	5.946778	5.443701	5.098131	5.360867	5.624075	5.368712
1.895768	1.733102	1.691046	1.731265	1.610414	1.594034	1.958095	1.918509	1.790884
..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..
105.4949	95.93334	95.91884	95.03967	87.07305	81.13633	85.55578	90.01297	85.72955
579.8974	527.338	527.2584	522.4256	478.6337	446	470.2934	494.7943	471.2486
28.53051	30.03008	28.57543	28.06573	24.87343	22.19235	26.64436	28.01195	29.46152
2.14565	1.91665	1.812675	1.780433	1.670492	1.490792	1.670487	1.782342	1.686495
..	..	..	..	..	..	..	..	..
0.866764	0.899495	0.906279	0.916452	0.935248	1.057858	1.4088	1.431025	1.51185
0.612473	0.54618	0.549998	0.543487	0.499772	0.543966	0.641919	0.647179	0.624141
..	..	..	..	..	..	..	..	..
6.587673	5.991057	5.99691	5.946778	5.443701	5.098131	5.360867	5.624075	5.368712
2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
..	..	..	..	..	..	..	..	..
7.940847	7.946496	7.633944	7.602631	7.673304	7.560028	8.161555	8.057771	7.785418
1984.931	2243.931	3644.333	5148.75	4197.752	4601.691	4801.083	5726.071	6658.031
579.8974	527.338	527.2584	522.4256	478.6337	446	470.2934	494.7943	471.2486
193.8783	198.3075	199.875	200.1883	202.3467	203.6333	203.95	203.6358	204.0175
42.36676	38.35203	40.44855	40.40852	36.86142	39.10759	41.19761	39.7974	40.52282
17.34529	18.20622	18.83234	18.89521	18.8951	18.90376	18.8951	18.8951	18.91714
7.78675	7.788	7.777333	7.767833	7.801417	7.786833	7.75175	7.769167	7.784
224.3067	202.7458	199.5825	210.39	183.6258	172.1133	202.3417	207.9442	201.055
76.70898	70.19167	62.98167	70.18	64.055	87.94792	123.6384	122.2418	115.954



46.58328	45.31647	44.09998	45.30701	41.34853	43.50518	48.40527	45.72581	46.67047
8577.133	8938.85	9704.742	9159.317	9141	9698.963	10389.94	9090.433	8770.433
8193.888	8613.989	8963.959	9170.943	9281.152	9428.528	9864.302	10254.18	10616.31
..	1453.417	1472	1467.417	1254.567	1193.083	1170	1170	1170
..	..	..	..	..	..	..	..	..
0.612473	0.54618	0.549998	0.543487	0.499772	0.543966	0.641919	0.647179	0.624141
4.554133	4.481983	4.4877	4.455808	4.108083	3.588021	3.932335	3.738975	3.578129
..	..	..	..	..	..	..	..	..
57.74087	61.1972	62.28071	65.74386	69.19216	72.7562	87.89412	87.19615	85.89346
115.9335	108.1926	110.2182	116.2993	117.7535	103.3595	93.57009	87.77988	79.80702
0.709	0.709	0.709	0.709	0.709	0.709667	0.71	0.71	0.71
149.5758	136.035	132.88	126.0894	122.5542	120.2992	147.4967	147.355	146.6208
75.93557	79.17388	75.55411	72.10084	67.31667	69.17583	77.35083	79.23333	88.81167
1.541914	1.359753	1.309473	1.327973	1.195073	1.192178	1.282189	1.090159	0.969463
..	..	..	..	..	..	..	..	..
1191.614	1145.319	1024.117	954.7905	929.2573	1102.047	1276.93	1156.061	1108.292
0.884048	0.803922	0.8038	0.796433	0.729672	0.679923	0.716958	0.754309	0.718414
0.298012	0.2947	0.292	0.290176	0.284214	0.268828	0.287785	0.286607	0.275979
43.64838	42.64994	41.01182	40.1529	37.31626	36.57459	42.90411	45.96426	46.1439
10569.04	10585.38	10655.17	10153.62	9602.729	8740.181	8511.351	8254.163	8029.263
0.571475	0.540233	0.564717	0.560408	0.513792	0.480817	0.50555	0.530475	0.501233
1507.5	1507.5	1507.5	1507.5	1507.5	1507.5	1507.5	1507.5	1507.5
7.564749	6.459693	6.359328	6.771549	7.045365	8.261223	8.473674	7.321222	7.261132
59.37883	54.90583	57.09583	58.01333	61.27222	63.2075	68.28667	71.40333	72.22667
1.292944	1.304966	1.308385	1.313572	1.262645	1.223562	1.253534	1.266789	1.224152
..	..	..	..	..	..	..	..	..
3.060867	2.780592	2.774025	2.752225	2.523725	2.357075	2.484033	2.606333	2.4811
..	..	..	..	..	..	..	..	..
8.021241	8.022171	8.011065	8.001426	8.035854	8.02011	7.984283	8.002217	8.018208
1238.328	1868.858	2003.026	2142.302	1873.877	1708.371	1956.206	2089.95	2025.118
97.43248	108.8975	118.42	136.0125	139.9575	140.5217	141.1683	150.4858	156.5158
3.8	3.8	3.787092	3.668177	3.437569	3.335833	3.524503	3.221087	3.060003
12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	14.60201
579.8974	527.338	527.2584	522.4256	478.6337	446	470.2934	494.7943	471.2486
0.377233	0.344663	0.345777	0.340894	0.311675	..	..	..	..
..	..	..	..	..	..	..	..	..
26.303	..	26.55283	26.86	25.85867	23.82033	26.23658	27.58942	28.11183
27.90148	27.49852	29.49623	31.70807	31.31366	28.45284	31.9598	30.7844	28.70595
10.78902	11.28597	10.89789	10.89924	10.92819	11.12972	13.51348	12.63601	12.42333
1	1	1	1	1	1	1	1	1
13.94488	12.32972	12.59963	13.13106	12.13994	10.39204	11.10958	12.36926	11.73861
..	..	..	..	..	..	..	..	..
1146.543	1185.298	1205.247	1179.699	1170.401	1165.804	1437.795	1357.064	1265.516
0.884048	0.803922	0.8038	0.796433	0.729672	0.679923	0.716958	0.754309	0.718414
9.574383	8.868017	8.865008	8.795583	8.192333	7.750325	8.0571	8.417158	8.089875
23.78227	22.58134	23.06097	25.40078	25.84034	24.30064	27.5183	33.9601	29.0676
6.138925	5.805833	5.818167	5.842942	5.616883	5.44145	5.576367	5.634883	5.444108







account for a significant share of a country's output. An alternative exchange rate - the purchasing power

2012	2013	2014	2015	2016	2017	2018	2019
[YR2012]	[YR2013]	[YR2014]	[YR2015]	[YR2016]	[YR2017]	[YR2018]	[YR2019]
50.9214	55.3775	57.2475	61.14346	67.86609	68.0269	72.08325	77.73795
108.1842	105.6692	105.48	125.9617	124.1425	119.1	107.9892	109.8508
77.53597	79.3684	80.57902	100.6914	109.4431	110.973	116.5938	..
..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..
95.46796	96.51828	98.30242	120.0607	163.6564	165.916	252.8557	364.8258
2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
4.536934	5.459353	8.075276	9.233186	14.75818	16.56271	28.09499	48.14789
401.764	409.6257	415.9198	477.9183	480.4882	482.7164	482.9879	480.4451
1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79
0.965801	1.035843	1.109363	1.33109	1.345214	1.304758	1.338412	1.438507
..	..	..	..	..	..	..	..
0.785645	0.784541	0.784348	1.024564	1.595722	1.721155	1.700017	1.7
1	1	1	1	1	1	1	1
0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.376
81.86266	78.10324	77.64141	77.94691	78.46809	80.43754	83.4662	84.45352
2	2	2	2	2	2	2	2
8336.898	8880.053	..	..	..	..	..	2.091783
..	..	..	..	..	..	..	..
2	2	2	2	2	2	2	2
510.5271	494.04	..	..	..	..	..	585.9508
1	1	1	1	1	1	1	1
53.43723	58.59785	61.02951	64.15194	67.19531	65.12157	68.38947	70.41997
6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91
1.52221	1.473051	1.474169	1.763492	1.768139	1.735353	1.656985	1.747086
7.619142	8.398908	8.976083	10.12899	10.90116	10.34742	10.19998	10.75587
1.953069	2.156089	..	..	..	..	..	3.944471
..	..	..	..	..	..	..	..
1.249567	1.251166	1.26704	1.374911	1.381347	1.380891	1.348919	1.364219
1.52205	1.473567	1.474183	1.7644	1.768042	1.735458	1.657042	1.747042
510.5563	493.8996	493.7573	591.2117	592.6056	580.6567	555.4465	585.911
1442.506	1555.091	..	..	..	..	..	1845.623
86.31895	83.0725	83.0345	99.38569	99.68811	97.80694	93.41358	98.49518
4033	4027.25	4037.5	4067.75	4058.695	4050.58	4051.167	4061.149
510.5563	493.8996	493.7573	591.2117	592.6056	580.6567	555.4465	585.911
0.999365	1.030137	1.104747	1.278786	1.325615	1.297936	1.295818	1.326793
0.83333	0.83333	0.83333	0.83333	0.83333	0.83333	0.83333	0.83333
510.5563	493.8996	493.7573	591.2117	592.6056	580.6567	555.4465	585.911
510.5563	493.8996	493.7573	591.2117	592.6056	580.6567	555.4465	585.911
..	..	..	..	..	..	..	..
486.4713	495.2729	570.3482	654.1241	676.9577	648.8338	641.2768	702.8974
6.312333	6.195758	6.143434	6.227489	6.644478	6.758755	6.615957	6.908385

1796.896	1868.785	2001.781	2741.881	3054.122	2951.327	2955.704	3280.832
382.9173	370.4247	370.318	443.4088	444.4542	435.4926	416.5848	439.4631
919.755	919.5659	925.2263	925.985	1010.303	1464.418	1622.524	1647.76
510.5563	493.8996	493.7573	591.2117	592.6056	580.6567	555.4465	585.911
502.9015	499.7668	538.3172	534.5658	544.7394	567.5131	576.9725	587.2946
510.5563	493.8996	493.7573	591.2117	592.6056	580.6567	555.4465	585.911
5.850292	5.70488	5.748165	6.858304	6.80599	6.623831	6.279025	6.622545
..	..	..	..	..	..	..	..
1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79
..	..	..	..	..	..	..	..
19.5775	19.57058	20.7575	24.59875	24.43992	23.37633	21.72992	22.93225
5.792476	5.616312	5.612467	6.727907	6.731718	6.602893	6.314619	6.669447
177.721	177.721	177.7208	177.72	177.72	177.72	177.72	177.72
2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
39.3203	41.7945	43.54967	45.0455	46.06444	47.53436	49.50999	51.29486
1	1	1	1	1	1	1	1
6.056058	6.870325	7.077609	7.691258	10.0254	17.78253	17.76729	16.77058
1	1	1	1	1	1	1	1
510.5271	494.04	..	..	..	..	..	585.911
15.375	15.375	15.375	15.375	15.35	15.075	15.075	15.075
..	..	..	..	..	..	..	..
8.209969	9.655056	10.85266	12.75893	14.70961	13.3238	13.23393	14.45179
17.70476	18.62663	19.58579	20.57685	21.73155	23.8661	27.42939	29.06975
5.792476	5.616312	5.612467	6.727907	6.731718	..	..	..
1.789893	1.841477	1.887345	2.09763	2.094696	2.066875	2.08738	2.160393
..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..
92.88041	89.85022	89.82434	107.5532	107.8068	105.6331	101.0468	106.5889
510.5563	493.8996	493.7573	591.2117	592.6056	580.6567	555.4465	585.911
32.07713	35.95759	41.73296	42.50621	43.88463	46.60753	48.15135	..
1.651258	1.66335	1.765667	2.269342	2.366725	2.509542	2.534111	2.818145
..	..	..	..	..	..	..	..
1.795817	1.95405	2.899775	3.668025	3.9098	4.350742	4.586817	5.216183
0.633047	0.639661	0.60773	0.654545	0.740634	0.776977	0.749532	0.783445
..	..	..	..	..	..	..	..
5.792476	5.616312	5.612467	6.727907	6.731718	..	..	..
2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
..	..	..	..	..	..	..	..
7.833605	7.856814	7.732233	7.654815	7.599937	7.347939	7.519165	7.696698
6985.829	6907.878	7014.119	7485.517	8967.927	9088.319	9011.134	9183.876
510.5563	493.8996	493.7573	591.2117	592.6056	580.6567	555.4465	585.911
204.3583	205.3942	206.4492	206.5	206.5	206.5	207.7167	208.5
41.94972	43.46278	45.21598	50.70643	63.33582	64.76968	68.03175	88.81497
19.50225	..	..	..	..	..	..	24.50854
7.756417	7.756	7.754083	7.75175	7.76225	7.79325	7.8385	7.835917
225.1042	223.695	232.6017	279.3325	281.5233	274.4333	270.2117	290.66
125.0828	122.1791	116.7674	131.9187	120.8115	106.8396	108.3002	122.6068

53.43723	58.59785	61.02951	64.15194	67.19531	65.12157	68.38947	70.42034
9386.629	10461.24	11865.21	13389.41	13308.33	13380.83	14236.94	14147.67
12175.55	18414.45	25941.66	29011.49	30914.85	33226.3	40864.33	..
1166.167	1166	1166	1167.333	1182	1184	1182.75	1182
..	..	..	..	..	..	..	..
0.633047	0.639661	0.60773	0.654545	0.740634	0.776977	0.749532	0.783445
3.855922	3.610758	3.577925	3.886833	3.840567	3.599556	3.590558	3.564527
..	..	..	..	..	..	..	..
88.7498	100.3979	110.9345	116.9698	125.095	127.9645	128.8715	133.3121
79.79046	97.59566	105.9448	121.044	108.7929	112.1661	110.4232	109.0097
0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
149.1125	152.1292	179.1917	221.7283	342.16	326.001	344.7058	382.7473
84.53	86.12333	87.9225	98.17917	101.5042	103.4104	101.3016	101.9913
0.965801	1.035843	1.109363	1.33109	1.345214	1.304758	1.338412	1.438507
..	..	..	..	..	..	..	..
1126.471	1094.853	1052.961	1131.158	1160.433	1130.425	1100.5	1165.358
0.778338	0.752945	0.752728	0.901296	0.903421	0.885206	0.846773	0.893216
0.279936	0.283589	0.284567	0.300852	0.302137	0.30335	0.301956	0.303611
47.00448	48.43806	53.65406	64.46211	69.91407	68.86667	68.84032	69.78935
8006.582	7833.23	8042.422	8127.611	8124.367	8244.843	8401.335	8679.409
0.546875	0.529392	..	..	..	..	..	..
1507.5	1507.5	1507.5	1507.5	1507.5	1507.5	1507.5	1507.5
8.209969	9.655056	10.85266	12.75893	14.70961	13.3238	13.23393	14.45179
73.51477	77.52	83.8925	86.18837	94.42724	112.7067	144.0556	186.4297
1.26166	1.271692	1.272402	1.38121	1.390369	1.39382	1.364967	1.398263
..	..	..	..	..	..	..	..
2.686292	2.601008	2.600292	..	..	..	..	..
..	..	..	..	..	..	..	..
7.989864	7.989255	7.987129	7.98496	7.995064	8.026001	8.072507	8.07047
2194.967	2206.914	2414.812	2933.508	3176.539	3116.11	3334.752	3618.322
249.1067	364.4058	424.8967	499.6058	718.005	730.2725	732.3333	..
3.088801	3.150909	3.27286	3.9055	4.148301	4.300441	4.03513	4.14247
15.36484	15.36671	15.38039	15.36633	15.36841	15.38697	15.39084	15.38204
510.5563	493.8996	493.7573	591.2117	592.6056	580.6567	555.4465	585.911
..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..
29.662	30.06817	30.2725	32.46717	35.23708	35.79442	35.6775	36.69083
30.04997	30.70136	30.62162	35.0567	35.54188	34.48141	33.93445	35.47352
13.16946	12.77199	13.29245	15.84827	18.66406	18.92652	19.24434	19.26363
1	1	1	1	1	1	1	1
12.11144	12.58676	14.03563	18.81848	19.92383	18.49903	16.80205	17.57347
..	..	..	..	..	..	..	..
1357.58	1523.928	1817.939	1970.309	2140.291	2439.777	2472.484	2663.541
0.778338	0.752945	0.752728	0.901296	0.903421	0.885206	0.846773	0.893216
8.628445	8.405504	8.406337	9.764348	9.807476	9.691998	9.386102	9.617076
28.37298	30.10411	31.35269	39.98247	63.05623	63.58432	60.32621	62.54833
640.6534	933.5705	984.3457	1162.615	1234.87	1360.359	1429.808	1518.255









r parity (PPP) conversion factor - is preferred because it reflects differences in price levels for both trade















able and nontradable goods and services and therefore provides a more meaningful comparison of real c















output.