



Foreign Exchange (FOREX) Data Base Manual

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This version of the Help documentation is preliminary and does not necessarily represent the current WEFA database. The availability of specific data may not be reflected in this version because of ongoing changes to the data. For example, seriescodes may have been added or dropped and descriptive information (leftmost column) may have changed. Please direct any questions concerning the accuracy or completeness of the information or the availability of data to David Montemurro (610) 490-2597. Please call Cathy Trani (610-490-2613) with any questions regarding the documentation.

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Introduction

WEFA's Foreign Exchange Database (FOREX) provides detailed information on exchange rates for approximately 190 countries vis-à-vis the U.S. dollar. These data are of importance to those who follow the highly volatile foreign exchange markets and have experienced difficulty in obtaining historical exchange rate data.

The database contains over 600 time series available on a daily, weekly and monthly basis. Start dates vary for the individual series but most weekly time series begin the second week in 1980. The majority of monthly time series begin in January 1957. The important characteristics of these data are their timeliness and accuracy. The daily exchange rates are updated by 12:00 noon (EST) each business day. The weekly exchange rates are available for client access by noon (EST) each business Monday. The monthly exchange rates are updated by the first week of each month for the previous month's data.

The manual is arranged by periodicity and type of exchange rate, with available countries listed alphabetically within each table. Please note that the abbreviation NCU is used throughout the manual to denote National Currency Units.

Mnemonics Design

An important characteristic of any database is a consistently defined naming convention, or mnemonics scheme, used to identify the series. As with each of WEFA's databases, specific conventions are employed in the mnemonics design. An understanding of these conventions will facilitate the user's ability to access the data found in the Foreign Exchange Database.

Seriescodes are alphanumeric and range from 7 to 11 characters in length. The seriescodes may be broken into 4 distinct parts. The following example illustrates the mnemonics scheme.

D193REXDF1

<u>Position</u>	<u>Description</u>
1	Periodicity Code - D denotes a daily periodicity; W - weekly; M - monthly. Every series begins with a periodicity code.
2 - 4	Country Code - 193 is the country code for Australia. The country code always occupies the second through fourth positions of each seriescode. A complete list of country codes begins on page iv.
5 - 8	Data Type - REX denotes the spot exchange rate data expressed in NCUs/U.S. \$. REX will always occupy the fifth through seventh positions of each seriescode. The D represents an exchange rate expressed in U.S. \$/NCU. 1 would indicate that the rate is most often a secondary rate, expressed in NCUs/U.S. \$. H indicates a past currency exchange rate, other than the present currency for the country. Discontinued series are stored in the FOREX Data Base, appended with an H, but these series are not documented in this manual.
9 - 10	Rate Type - F represents a forward exchange rate. If no F appears here the rate is a spot exchange rate. Immediately following the F will be the frequency of the forward exchange rate. 1 indicates a one month forward exchange rate; 2 - two months; 3 - three months; 6 - six months; 12 - one year.

Country Code Listing

<u>Country</u>	<u>Code</u>	<u>Country</u>	<u>Code</u>
Afghanistan	512	France	132
Albania	914	French Countries in Africa	795
Algeria	612	French Guiana	333
Andorra (French)	133	French Pacific Island	887
Andorra (Spanish)	B33	Gabon	646
Angola	614	Gambia	648
Antigua	311	Germany	134
Argentina	213	Ghana	652
Australia	193	Gibraltar	823
Austria	122	Greece	174
Bahamas	313	Greenland	326
Bahrain	419	Grenada	328
Bangladesh	513	Guadeloupe	329
Barbados	316	Guatemala	258
Belgium	124	Guinea-Bissau	654
Belize	339	Guinea Republic	656
Benin	638	Guyana	336
Bhutan	514	Haiti	263
Bolivia	218	Honduras	268
Botswana	616	Hong Kong	532
Brazil	223	Hungary	944
Brunei	516	Iceland	176
Bulgaria	918	India	534
Burkina Faso	748	Indonesia	536
Burundi	618	Iran	429
Cameroon Republic	622	Iraq	433
Canada	156	Ireland	178
Cape Verde	624	Israel	436
Cayman Islands	377	Italy	136
Central African Republic	626	Jamaica	343
Chad	628	Japan	158
Chile	228	Jordan	439
China, People's Republic of	924	Kenya	664
Colombia	233	Kiribati	826
Comoros Republic	632	Korea, North	954
Congo, People's Republic	634	Korea, South	542
Costa Rica	238	Kuwait	443
Cote D'Ivoire	662	Laos, People's Democratic Republic of	544
Cuba	928	Latvia	941
Cyprus	423	Lebanon	446
Czech Republic	935	Lesotho	666
Denmark	128	Liberia	668
Djibouti	611	Libya	672
Dominica	321	Liechtenstein	B46
Dominican Republic	243	Lithuania	946
Ecuador	248	Luxembourg	137
Egypt	469	Macao	546
El Salvador	253	Madagascar	674
Equatorial Guinea	642	Malawi	676
Estonia	939	Malaysia	548
Ethiopia	644	Maldives Islands	556
Euroland	163	Mali Republic	678
Faeroe Islands	816	Malta	181
Falkland Islands	323	Martinique	349
Fiji	819	Mauritania	682
Finland	172		

Country Code Listing (Continued)

<u>Country</u>	<u>Code</u>	<u>Country</u>	<u>Code</u>
Mauritius	684	Senegal	722
Mexico	273	Seychelles	718
Monaco	B32	Sierra Leone	724
Mongolia	948	Singapore	576
Montserrat	351	Slovak Republic	936
Morocco	686	Solomon Islands	813
Mozambique	688	Somalia	726
Myanmar	518	South Africa	199
Namibia	728	Spain	184
Nauru Islands	836	Sri Lanka	524
Nepal	558	Sudan	732
Netherlands	138	Surinam	366
Netherlands Antilles	353	Swaziland	734
New Zealand	196	Sweden	144
Nicaragua	278	Switzerland	146
Niger Republic	692	Syria	463
Nigeria	694	Taiwan	528
Norway	142	Tanzania	738
Oman, Sultanate	449	Thailand	578
Pakistan	564	Togo	742
Panama	283	Tonga Island	866
Papua New Guinea	853	Trinidad and Tobago	369
Paraguay	288	Tunisia	744
Peru	293	Turkey	186
Philippines	566	Tuvalu	869
Pitcairn Island	B96	Uganda	746
Poland	964	United Arab Emirates	466
Portugal	182	United Kingdom	112
Qatar	453	United States	111
Reunion, Isle de la	696	Uruguay	298
Romania	968	Vanuatu	846
Russia	922	Venezuela	299
Rwanda	714	Vietnam	582
St. Christopher	358	Yemen Arab Republic	473
St. Helena	856	Yemen, People's Democratic Rep of	459
St. Lucia	362	Yugoslavia	188
St. Pierre and Miquelon	363	Zaire Republic	636
St. Vincent	364	Zambia	754
Samoa, Western	862	Zimbabwe	698
San Marino	B36		
Sao Tome and Principle DR	716		
Saudi Arabia	456		

Glossary

<u>Term</u>	<u>Definition</u>
Buying rate	The rate at which a party is prepared to purchase a currency against another currency.
Forward rate	The rate at which each party promises to pay a certain amount of currency to the other on an agreed upon maturity date which is more than two business days in the future (spot rate). The rate is fixed at the time the transaction is agreed upon but no transactions actually take place until the maturity date. The maturity date can be anywhere from a few days to months and possibly years. E.G. the dollar price at which the Deutsche Mark can be bought for delivery three months later.
Selling rate	The rate at which a party will sell a currency to another.
Spot rate	The rate at which each party promises to pay a certain amount of currency to the other on an agreed payment date. This agreed payment date is usually two business days after the transaction originated, though in some cases it can be one business day after the transaction is originated.

Selling Rate: New York

Start Date: 1995.1/13, or as indicated
Units: NCU per U.S. dollar
Source: Daily Press, or as indicated

Description

Seriescode

Selling Rate, New York Quote, 3 P.M. EST:

Special drawing rights SDR (U.S. \$ Per SDR)	D111REXSDRNY
European currency EURO (U.S. \$ Per EURO)	D111REXEURNY
Argentina, Argentine pesos	D213REXNY
Australia, Australian dollars	D193REXNY
Austria, Austrian shillings	D122REXNY
Bahrain, Bahraini dinars	D419REXNY
Belgium, Belgian francs	D124REXNY
Brazil, Brazilian real	D223REXNY
Canada, Canadian dollars	D156REXNY
Chile, Chilean pesos	D228REXNY
China, Renmindi yuan	D924REXNY
Colombia, Colombian pesos	D233REXNY
Czech Republic, Czech koruna (commercial rate)	D935REXNY
Denmark, Danish krone	D128REXNY
Ecuador, Ecuadoran sucres (floating rate)	D248REXNY
Euroland, Euro	D163REXNY
Finland, Finnish markka	D172REXNY
France, French francs	D132REXNY
Germany, Deutsche marks	D134REXNY
Greece, Greek drachma	D174REXNY
Hong Kong, Hong Kong dollars	D532REXNY
Hungary, Hungarian forint	D944REXNY
India, Indian rupees	D534REXNY
Indonesia, Indonesian rupiahs	D536REXNY
Israel, Israeli new shekel	D436REXNY
Italy, Italian lira	D136REXNY
Japan, Japanese yen	D158REXNY
Jordan, Jordan dinars	D439REXNY
Kuwait, Kuwaiti dinars	D443REXNY
Lebanon, Lebanese pounds	D446REXNY
Malaysia, Malaysian ringgit	D548REXNY
Malta, Maltese lira	D181REXNY
Mexico, Mexican pesos (floating rate)	D273REXNY
Netherlands, Netherlands guilder	D138REXNY
New Zealand, New Zealand dollars	D196REXNY
Norway, Norwegian krone	D142REXNY
Pakistan, Pakistan rupees	D564REXNY
Peru, Peruvian new soles	D293REXNY
Philippines, Philippines pesos	D566REXNY
Poland, Polish zlotys	D964REXNY
Portugal, Portuguese escudo	D182REXNY
Russia, Russian ruble	D922REXNY
Saudi Arabia, Saudi Arabian riyalds	D456REXNY
Singapore, Singapore dollars	D576REXNY
Slovak Republic, Slovak koruna	D936REXNY
South Africa, South African rand	D199REXNY
South Korea, South Korean won	D542REXNY
Spain, Spanish pesetas	D184REXNY

Selling Rate: New York (Continued)

Description

Seriescode

Sweden, Swedish krona
Switzerland, Swiss Francs
Taiwan, Taiwanese dollars
Thailand, Thai baht
Turkey, Turkish lira
United Arab Emirates, (Dirham)
United Kingdom, pounds sterling
Uruguay, Uruguyan pesos
Venezuela, Venezuelan bolivares

D144REXNY
D146REXNY
D528REXNY
D578REXNY
D186REXNY
D466REXNY
D112REXNY
D298REXNY
D299REXNY

Selling Rate, 1 Month Forward, New York Quote, 3 P.M. EST:

Canada, Canadian dollars
France, French francs
Germany, Deutsche marks
Japan, Japanese yen
Switzerland, Swiss francs
United Kingdom, pounds sterling

D156REXF1NY
D132REXF1NY
D134REXF1NY
D158REXF1NY
D146REXF1NY
D112REXF1NY

Selling Rate, 3 Months Forward, New York Quote, 3 P.M. EST:

Canada, Canadian dollars
France, French francs
Germany, Deutsche marks
Japan, Japanese yen
Switzerland, Swiss francs
United Kingdom, pounds sterling

D156REXF3NY
D132REXF3NY
D134REXF3NY
D158REXF3NY
D146REXF3NY
D112REXF3NY

Selling Rate, 6 Months Forward, New York Quote, 3 P.M. EST:

Canada, Canadian dollars
France, French francs
Germany, Deutsche marks
Japan, Japanese yen
Switzerland, Swiss francs
United Kingdom, pounds sterling

D156REXF6NY
D132REXF6NY
D134REXF6NY
D158REXF6NY
D146REXF6NY
D112REXF6NY

Spot Rate: London

Start Date: 1995.1/13, or as indicated
 Units: NCU per U.S. dollar
 Source: Daily Press, or as indicated

<u>Description</u>	<u>Seriescode</u>	<u>Start Date</u>
Spot Rate, Market Quotes, London 12:30 GMT, U.S. Dollar Per NCU, WEFA:		
Australia, Australian dollar	D193REXD	78.01/02
Canada, Canadian dollar	D156REXD	78.01/02
Kuwait, Kuwaiti dinar	D443REXD	86.05/19
New Zealand, New Zealand dollar	D196REXD	86.05/19
South Africa, South African rand	D199REXD	86.05/19
United Kingdom, pound sterling	D112REXD	78.01/02

Spot Rate, Market Quotes, London 12:30 GMT, U.S. Dollar Per EURO, WEFA:

Spot Rate	D111REXEUR	98.12/31
Forward rate, 1 month	D111REXEURF1	98.12/31
Forward rate, 2 month	D111REXEURF2	98.12/31
Forward rate, 3 month	D111REXEURF3	98.12/31
Forward rate, 6 month	D111REXEURF6	98.12/31
Forward rate, 12 month	D111REXEURF12	98.12/31

Spot Rate, Market Quotes, London 12:30 GMT, NCU Per U.S. Dollar, WEFA:

Argentina, Argentine peso	D213REX	92.01/02
Australia, Australian dollar	D193REX	78.01/02
Brazil, Brazilian real cruzeiro	D223REX	86.05/19
Canada, Canadian dollars	D156REX	78.01/02
Chile, Chilean pesos	D228REX	86.05/19
China, Chinese renminbi yuan	D924REX	88.01/04
Colombia, Colombian peso	D233REX	86.05/19
Czech Republic, Czech korunas	D935REX	94.03/14
Denmark, Danish krone	D128REX	78.01/02
Hong Kong, Hong Kong dollars	D532REX	84.09/03
Hungary, Hungarian forint	D944REX	95.01/04
India, Indian rupees	D534REX	94.04/11
Indonesia, Indonesian rupiahs	D536REX	94.03/14
Ireland, Irish punt	D178REX	86.05/19
Japan, Japanese yen	D158REX	78.01/02
Kuwait, Kuwaiti dinars	D443REX	86.05/19
Malaysia, Malaysian ringgit	D548REX	86.05/19
Mexico, Mexican pesos	D273REX	86.05/19
New Zealand, New Zealand dollars	D196REX	86.05/19
Norway, Norwegian krone	D142REX	78.01/02

Spot Rate: London (Continued)

<u>Description</u>	<u>Seriescode</u>	<u>Start Date</u>
Philippines, Philippine pesos	D566REX	86.05/19
Poland, Polish zlotys	D964REX	94.03/14
Saudi Arabia, Saudi Arabian riyals	D456REX	86.05/19
Singapore, Singapore dollars	D576REX	84.09/03
South Africa, South African comm. rand	D199REX	86.05/19
South Korea, South Korean won	D542REX	86.05/19
Sweden, Swedish krona	D144REX	78.01/02
Switzerland, Swiss francs	D146REX	78.01/02
Taiwan, Taiwanese dollars	D528REX	88.01/04
Thailand, Thai baht	D578REX	88.01/04
Turkey, Turkish lira	D186REX	94.03/14
United Kingdom, pounds sterling	D112REX	78.01/02
Venezuela, Venezuelan bolivares	D299REX	86.05/19

Forward Exchange Rate, U.S. Dollar Per NCU

Start Date: 1995.1/13, or as indicated
 Units: NCU per U.S. dollar
 Source: Daily Press, or as indicated

<u>Description</u>	<u>Seriescode</u>	<u>Start Date</u>
Forward Exchange Rate, 1 Month, Market Quotes, London 12:30 GMT, U.S. Dollar Per NCU, WEFA:		
Australia, Australian dollar	D193REXDF1	78.01/02
Canada, Canadian dollars	D156REXDF1	78.01/02
United Kingdom, pound sterling	D112REXDF1	78.01/02
Forward Exchange Rate, 2 Months, Market Quotes, London 12:30 GMT, U.S. Dollar Per NCU, WEFA:		
Australia, Australian dollar	D193REXDF2	78.01/02
Canada, Canadian dollar	D156REXDF2	78.01/02
United Kingdom, pound sterling	D112REXDF2	78.01/02
Forward Exchange Rate, 3 Months, Market Quotes, London 12:30 GMT, U.S. Dollar Per NCU, WEFA:		
Australia, Australian dollar	D193REXDF3	78.01/02
Canada, Canadian dollar	D156REXDF3	78.01/02
United Kingdom, pound sterling	D112REXDF3	78.01/02
Forward Exchange Rate, 6 Months, Market Quotes, London 12:30 GMT, U.S. Dollar Per NCU, WEFA:		
Australia, Australian dollar	D193REXDF6	78.01/02
Canada, Canadian dollar	D156REXDF6	78.01/02
United Kingdom, pound sterling	D112REXDF6	78.01/02
Forward Exchange Rate, 12 Months, Market Quotes, London 12:30 GMT, U.S. Dollar Per NCU, WEFA:		
Australia, Australian dollar	D193REXDF12	78.01/02
Canada, Canadian dollar	D156REXDF12	78.01/02
United Kingdom, pound sterling	D112REXDF12	78.01/02

Forward Exchange Rate, NCU Per U.S. Dollar

<u>Description</u>	<u>Seriescode</u>	<u>Start Date</u>
Forward Exchange Rate, 1 Month, Market Quotes, London 12:30 GMT, NCU Per U.S. Dollar, WEFA:		
Australia, Australian dollars	D193REXF1	78.01/02
Canada, Canadian dollars	D156REXF1	78.01/02
Denmark, Danish krone	D128REXF1	78.01/02
Hong Kong, Hong Kong dollars	D532REXF1	86.07/16
Japan, Japanese yen	D158REXF1	78.01/02
Norway, Norwegian krone	D142REXF1	78.01/02
Singapore, Singapore dollars	D576REXF1	86.07/16
Sweden, Swedish krona	D144REXF1	78.01/02
Switzerland, Swiss francs	D146REXF1	78.01/02
United Kingdom, pounds sterling	D112REXF1	78.01/02

Forward Exchange Rate, 2 Months, Market Quotes, London 12:30 GMT, NCU Per U.S. Dollar, WEFA:

Australia, Australian dollars	D193REXF2	78.01/02
Canada, Canadian dollars	D156REXF2	78.01/02
Denmark, Danish krone	D128REXF2	78.01/02
Hong Kong, Hong Kong dollars	D532REXF2	86.07/16
Japan, Japanese yen	D158REXF2	78.01/02
Norway, Norwegian krone	D142REXF2	78.01/02
Singapore, Singapore dollars	D576REXF2	86.07/16
Sweden, Swedish krona	D144REXF2	78.01/02
Switzerland, Swiss francs	D146REXF2	78.01/02
United Kingdom, pounds sterling	D112REXF2	78.01/02

Forward Exchange Rate, 3 Months, Market Quotes, London 12:30 GMT, NCU Per U.S. Dollar, WEFA:

Australia, Australian dollars	D193REXF3	78.01/02
Canada, Canadian dollars	D156REXF3	78.01/02
Denmark, Danish krone	D128REXF3	78.01/02
Hong Kong, Hong Kong dollars	D532REXF3	86.07/16
Japan, Japanese yen	D158REXF3	78.01/02

Forward Exchange Rate, NCU Per U.S. Dollar (Continued)

<u>Description</u>	<u>Seriescode</u>	<u>Start Date</u>
Norway, Norwegian krone	D142REXF3	78.01/02
Singapore, Singapore dollars	D576REXF3	86.07/16
Sweden, Swedish krona	D144REXF3	78.01/02
Switzerland, Swiss francs	D146REXF3	78.01/02
United Kingdom, pounds sterling	D112REXF3	78.01/02

Forward Exchange Rate, 6 Months, Market Quotes, London 12:30 GMT, NCU Per U.S. Dollar, WEFA:

:

Australia, Australian dollars	D193REXF6	78.01/02
Canada, Canadian dollars	D156REXF6	78.01/02
Denmark, Danish krone	D128REXF6	78.01/02
Hong Kong, Hong Kong dollars	D532REXF6	86.07/16
Japan, Japanese yen	D158REXF6	78.01/02
Norway, Norwegian krone	D142REXF6	78.01/02
Singapore, Singapore dollars	D576REXF6	86.07/16
Sweden, Swedish krona	D144REXF6	78.01/02
Switzerland, Swiss francs	D146REXF6	78.01/02
United Kingdom, pounds sterling	D112REXF6	78.01/02

Forward Exchange Rate, 12 Months, Market Quotes, London 12:30 GMT, NCU Per U.S. Dollar, WEFA:

Australia, Australian dollars	D193REXF12	78.01/02
Canada, Canadian dollars	D156REXF12	78.01/02
Denmark, Danish krone	D128REXF12	78.01/02
Japan, Japanese yen	D158REXF12	78.01/02
Norway, Norwegian krone	D142REXF12	78.01/02
Singapore, Singapore dollars	D576REXF12	86.07/16
Sweden, Swedish krona	D144REXF12	78.01/02
Switzerland, Swiss francs	D146REXF12	78.01/02
United Kingdom, pounds sterling	D112REXF12	78.01/02

Friday Exchange Rate

Units: NCU per U.S. dollar
 Source: Bank of America

<u>Description</u>	<u>Seriescode</u>	<u>Start Date</u>
Friday Exchange Rate, London Mid-Morning Quote:		
Afghanistan, Afghanistan afghanis (commercial rate)	W512REX	80.01/05
Albania, Albanian lek	W914REX	83.10/15
Algeria, Algerian dinars	W612REX	80.01/05
Andorra (French), French francs	W133REX	83.10/15
Andorra (Spanish), Spanish pesetas	WB33REX	83.10/15
Angola, Angolan new kwanza	W614REX	83.10/15
Antigua, East Caribbean dollars	W311REX	83.10/15
Argentina, Argentine peso	W213REX	91.12/28
Australia, Australian dollars	W193REX	80.01/05
Austria, Austrian schillings	W122REX	80.01/05
Bahamas, Bahamian dollars	W313REX	80.01/05
Bahrain, Bahraini dinars	W419REX	80.01/05
Bangladesh, Bangladesh taka	W513REX	80.01/05
Barbados, Barbados dollars	W316REX	80.01/05
Belgium, Belgian francs	W124REX	80.01/05
Belize, Belize dollars	W339REX	83.10/15
Benin, CFA francs	W638REX	80.01/05
Bhutan, Bhutan ngultrum	W514REX	83.10/15
Bolivia, Bolivian bolivianos (official rate)	W218REX	87.02/07
Botswana, Botswana pula	W616REX	80.01/05
Brazil, Brazilian cruzieros	W223REX	80.01/05
Brunei, Burnei dollars	W516REX	83.10/15
Bulgaria, Bulgarian lev	W918REX	83.10/15
Burkina Faso, CFA francs	W748REX	80.01/05
Burundi, Burundi francs	W618REX	80.01/05
Cameroon Republic, CFA francs	W622REX	80.01/05
Canada, Canadian dollars	W156REX	80.01/05
Cape Verde, Cape Verde escudos	W624REX	80.01/05
Cayman Islands, Cayman Islands dollars	W377REX	83.10/15
Central African Republic, CFA francs	W626REX	80.01/05
Chad, CFA francs	W628REX	80.01/05
Chile, Chilean pesos (market rate)	W228REX	80.01/05
China, Renminbi yuan	W924REX	80.01/05
Colombia, Colombian pesos (official rate)	W233REX	80.01/05
Commonwealth of Independent States, Russian rouble (market rate)	W922REX	92.05/02
Comoros, Republic CFA francs	W632REX	80.01/05
Congo, Republic CFA francs	W634REX	80.01/05
Costa Rica, Costa Rican colones	W238REX	80.01/05
Cote D'Ivoire, CFA francs	W662REX	80.01/05
Cuba, Cuban pesos	W928REX	83.10/15
Cyprus, Cyprus pounds	W423REX	80.01/05
Czech Republic, Czech Republic koruna (official rate)	W935REX	83.10/15
Denmark, Danish krone	W128REX	80.01/05
Djibouti, Djibouti francs	W611REX	80.01/05
Dominica, East Caribbean dollars	W321REX	80.01/05
Dominican Republic, Dominican Republic pesos (freemarket rate)	W243REX	80.01/05
Ecuador, Ecuadoran sucres (freemarket rate)	W248REX	83.10/15
Egypt, Egyptian pounds	W469REX	83.10/15
El Salvador, El Salvadoran colones (freemarket rate)	W253REX	84.08/25
Equatorial Guinea, CFA francs	W642REX	80.01/05
Estonia, Estonian kroon	W939REX	94.01/01
Ethiopia, Ethiopian birr (official rate)	W644REX	80.01/05

Friday Exchange Rate (Continued)

<u>Description</u>	<u>Seriescode</u>	<u>Start Date</u>
Faeroe Islands, Danish krone	W816REX	83.10/15
Falkland Islands, pounds sterling	W323REX	83.10/15
Fiji, Fiji dollars	W819REX	80.01/05
Finland, Finnish markka	W172REX	80.01/05
France, French francs	W132REX	80.01/05
French countries in Africa, CFA francs	W795REX	80.01/05
French Guiana, French francs	W333REX	83.10/15
French Pacific Island, CFP francs	W887REX	83.10/15
Gabon, CFA francs	W646REX	80.01/05
Gambia, Gambian dalasi	W648REX	80.01/05
Germany, Deutsche marks	W134REX	80.01/05
Ghana, Ghanaian cedi	W652REX	86.09/20
Gibraltar, pounds sterling	W823REX	83.10/15
Greece, Greek drachma	W174REX	80.01/05
Greenland, Danish krone	W326REX	83.10/15
Grenada, East Caribbean dollars	W328REX	80.01/05
Guadeloupe, French francs	W329REX	83.10/15
Guatemala, Guatemalan quetzales (official rate)	W258REX	80.01/05
Guinea Republic, Guinea Republic francs	W656REX	86.02/01
Guinea-Bissau, Guinea-Bissau pesos	W654REX	83.10/15
Guyana, Guyana dollars	W336REX	80.01/05
Haiti, Haitian gourdes	W263REX	80.01/05
Honduras, Honduran lempira (freemarket rate)	W268REX	80.01/05
Hong Kong, Hong Kong dollars	W532REX	80.01/05
Hungary, Hungarian forint	W944REX	83.10/15
Iceland, Icelandic krona	W176REX	80.01/05
India, Indian rupees	W534REX	80.01/05
Indonesia, Indonesian rupiahs	W536REX	80.01/05
Iran, Iranian rials (official rate)	W429REX	80.01/05
Iraq, Iraqi dinars	W433REX	80.01/05
Ireland, Irish punt	W178REX	80.01/05
Israel, Israeli new shekel	W436REX	80.01/05
Italy, Italian lira	W136REX	80.01/05
Jamaica, Jamaican dollars (official rate)	W343REX	80.01/05
Japan, Japanese yen	W158REX	80.01/05
Jordan, Jordan dinars	W439REX	80.01/05
Kenya, Kenya shillings	W664REX	80.01/05
Kiribati, Australian dollars	W826REX	83.10/15
Kuwait, Kuwaiti dinars	W443REX	80.01/05
Laos, People's Democratic Republic of, Lao kip	W544REX	83.10/15
Latvia, Latvia lat	W941REX	94.01/01
Lebanon, Lebanese pounds	W446REX	80.01/05
Lesotho, Lesotho maloti	W666REX	80.01/05
Liberia, Liberian dollars	W668REX	80.01/05
Libya, Libyan dinars	W672REX	80.01/05
Liechtenstein, Swiss francs	WB46REX	83.10/15
Lithuania, Lithuanian litas	W946REX	94.01/01
Luxembourg, Luxembourg francs	W137REX	80.01/05
Macao, Macao pataca	W546REX	83.10/15
Madagascar, Malagasy francs	W674REX	80.01/05
Malawi, Malawi kwacha	W676REX	80.01/05
Malaysia, Malaysian ringgit	W548REX	80.01/05
Maldives Islands, Maldivian rufiyaa	W556REX	83.10/15
Mali, CFA francs	W678REX	84.09/29
Malta, Maltese lira	W181REX	80.01/05
Martinique, French francs	W349REX	83.10/15
Mauritania, Mauritanian ouguiya	W682REX	80.01/05
Mauritius, Mauritius rupees	W684REX	80.01/05
Mexico, Mexican pesos	W273REX	83.10/15
Monaco, French francs	WB32REX	83.10/15

Friday Exchange Rate (Continued)

<u>Description</u>	<u>Seriescode</u>	<u>Start Date</u>
Mongolia, Mongolian tugrik (official rate)	W948REX	83.10/15
Montserrat, East Caribbean dollars	W351REX	83.10/15
Morocco, Moroccan dirham	W686REX	80.01/05
Mozambique, Mozambique metical	W688REX	83.10/15
Myanmar, Myanmarese kyat	W518REX	80.01/05
Namibia, South African rand (commercial rate)	W728REX	83.10/15
Nauru Island, Australian dollars	W836REX	83.10/15
Nepal, Nepalese rupees	W558REX	80.01/05
Netherlands Antilles, Netherlands Antilles guilders	W353REX	80.01/05
Netherlands, Netherlands guilders	W138REX	80.01/05
New Zealand, New Zealand dollars	W196REX	80.01/05
Nicaragua, Nicaraguan new cordobas	W278REX	88.02/13
Niger Republic, CFA francs	W692REX	80.01/05
Nigeria, Nigerian naira (official rate)	W694REX	86.09/27
North Korea, North Korean won	W954REX	83.10/15
Norway, Norwegian krone	W142REX	80.01/05
Oman, Omani rials	W449REX	80.01/05
Pakistan, Pakistan rupees	W564REX	80.01/05
Panama, Panamanian balboa	W283REX	80.01/05
Papua New Guinea, Papua New Guinea kina	W853REX	80.01/05
Paraguay, Paraguayan guaranies (freemarket rate)	W288REX	89.02/18
Peru, new soles	W293REX	80.01/05
Philippines, Philippine pesos	W566REX	80.01/05
Pitcairn Islands, New Zealand dollars	WB96REX	83.10/15
Poland, Polish zloty (official rate)	W964REX	83.10/15
Portugal, Portuguese escudo	W182REX	80.01/05
Qatar, Qatari riyals	W453REX	80.01/05
Reunion, French francs	W696REX	83.10/15
Romania, Romanian leu (official rate)	W968REX	87.01/03
Russia, Russian ruble (market rate)	W922REX	92.05/08
Rwanda, Rwanda francs	W714REX	80.01/05
San Marino, Italian lira	WB36REX	83.10/15
Sao Tome and Principe, Sao Tome and Principe dobra	W716REX	80.01/05
Saudi Arabia, Saudi Arabian riyals	W456REX	80.01/05
Senegal, CFA francs	W722REX	80.01/05
Seychelles, Seychelles rupees	W718REX	80.01/05
Sierra Leone, Sierra Leonean leone	W724REX	80.01/05
Singapore, Singapore dollars	W576REX	80.01/05
Slovak, Slovak koruna	W936REX	94.01/01
Slovenia, Slovenia tolar	W961REX	94.01/01
Solomon Islands, Solomon Islands dollars	W813REX	80.01/05
Somali, Somali shillings (freemarket rate)	W726REX	80.01/05
South Africa, South African rand (commercial rate)	W199REX	80.01/05
South Korea, South Korean won	W542REX	80.01/05
Spain, Spanish pesetas	W184REX	80.01/05
Sri Lanka, Sri Lanka rupees	W524REX	80.01/05
St. Christopher, East Caribbean dollars	W358REX	83.10/15
St. Helena, pounds sterling	W856REX	83.10/15
St. Lucia, East Caribbean dollars	W362REX	80.01/05
St. Pierre and Miquelon, French francs	W363REX	83.10/15
St. Vincent, East Caribbean dollars	W364REX	83.10/15
Sudan, Sudanese pounds	W732REX	80.01/05
Surinam, Surinam guilders	W366REX	80.01/05
Swaziland, Swaziland lilangeni	W734REX	80.01/05
Sweden, Swedish krona	W144REX	80.01/05
Switzerland, Swiss francs	W146REX	80.01/05
Syria, Syrian pounds	W463REX	80.01/05
Taiwan, Taiwan dollars (official rate)	W528REX	80.01/05
Tanzania, Tanzanian shillings	W738REX	80.01/05
Thailand, Thai baht	W578REX	80.01/05

Friday Exchange Rate (Continued)

<u>Description</u>	<u>Seriescode</u>	<u>Start Date</u>
Togo, CFA francs	W742REX	80.01/05
Tonga Island, Tongan pa'anga	W866REX	83.10/15
Trinidad and Tobago, Trinidad and Tobago dollars	W369REX	86.01/04
Tunisia, Tunisian dinars	W744REX	80.01/05
Turkey, Turkish lira	W186REX	80.01/05
Tuvalu, Australian dollars	W869REX	83.10/15
Uganda, Ugandan new shillings (priority rate)	W746REX	87.05/16
United Arab Emirates, U.A.E. dirham (market rate)	W466REX	80.01/05
United Kingdom, pounds sterling	W112REX	80.01/05
Uruguay, Uruguayan pesos (market rate)	W298REX	80.01/05
Vanuatu, Vanuatu vatu	W846REX	83.10/08
Venezuela, Venezuelan bolavares (freemarket rate)	W299REX	83.10/15
Vietnam, Vietnamese dong (official rate)	W582REX	85.12/28
Western Samoa, Samoan tala	W862REX	80.01/05
Yemen Arab Republic, Yemen rials	W473REX	80.01/05
Yemen, People's Democratic Republic of, Yemeni dinars	W459REX	80.01/05
Yugoslavia, Yugoslav dinars	W188REX	80.01/05
Zaire, Zaire zaires	W636REX	80.01/05
Zambia, Zambian kwacha	W754REX	80.01/05
Zimbabwe, Zimbabwean dollars	W698REX	80.01/05

Friday Exchange Rate, London Mid-Morning Quote, U.S. Dollars Per NCU, Bank of America:

Cyprus, Cyprus pound	W423REXD	80.01/05
Falkland Islands, pound sterling	W323REXD	83.10/15
Gibraltar, pound sterling	W823REXD	83.10/15
Ireland, Irish punt	W178REXD	80.01/05
Malta, Maltese lira	W181REXD	80.01/05
St. Helena, pound sterling	W856REXD	83.10/15
United Kingdom, pound sterling	W112REXD	80.01/05

Friday Exchange Rate, 3 P.M. EDT Quote, NCU Per U.S. Dollar, Daily Press:

Canada, Canadian dollar	W156REX1	82.10/23
Ecuador, Ecuadoran sucres (financial rate)	W248REX1	87.01/03
France, French franc	W132REX1	82.10/23
Germany, German mark	W134REX1	82.10/23
Guinea Republic, Guinea Republic francs (public transaction rate)	W656REX1	86.02/01
Italy, Italian lira	W136REX1	82.10/23
Japan, Japanese yen	W158REX1	82.10/23
South Africa, South African rand (financial rate)	W199REX1	94.01/01
Switzerland, Swiss francs	W146REX1	83.12/31
United Kingdom, British pound	W112REX1	82.10/23
Mexico, Mexican pesos	W273REX2	83.10/08

Monthly Average Exchange Rates

Units: NCU per U.S. dollar
Source: International Financial Statistics, or Bank of America

<u>Description</u>	<u>Seriescode</u>	<u>Start Date</u>
Monthly Average Exchange Rates, Bank of America:		
Afghanistan, Afghanistan afghanis	M512REX	1957.01
Iraq, Iraqi dinars	M433REX	1957.01
Liechtenstein, Swiss francs	MB46REX	1983.11
Monaco, French francs	MB32REX	1983.11
Pitcairn Island, New Zealand dollars	MB96REX	1983.11
San Marina, Italian lira	MB36REX	1983.11
Spanish Andorra, Spanish pesetas	MB33REX	1983.11

Monthly Average of Daily Exchange Rates

Units: NCU per U.S. dollar
 Source: [International Financial Statistics](#), or Bank of America

<u>Description</u>	<u>Seriescode</u>	<u>Start Date</u>
Monthly Average of Daily Exchange Rates:		
Albania, Albanian lek	M914REX	1983.11
Algeria , Algerian dinars	M612REX	1957.01
Angola, Angolan kwanza	M614REX	1983.11
Antigua, East Caribbean dollars	M311REX	1957.01
Argentina, Argentine pesos (freemarket)	M213REX	1959.01
Australia, Australian dollars	M193REX	1957.01
Austria , Austrian schillings	M122REX	1957.01
Bahamas, Bahamian dollars	M313REX	1957.01
Bahrain, Bahraini dinars	M419REX	1966.01
Bangladesh, Bangladesh taka	M513REX	1970.01
Barbados, Barbados dollars	M316REX	1957.01
Belgium, Belgian francs (commercial rate)	M124REX	1957.01
Belize, Belize dollars	M339REX	1957.01
Beninfo, CFA francs	M638REX	1957.01
Bhutan, Bhutan ngultrum	M514REX	1957.01
Bolivia, Bolivian bolivianos (official rate)	M218REX	1959.03
Botswana, Botswana pula	M616REX	1957.01
Brazil, Brazilian cruzieros	M223REX	1957.01
Brunei, Brunei dollars	M516REX	1983.11
Bulgaria, Bulgarian lev	M918REX	1983.11
Burkina Faso, CFA francs	M748REX	1957.01
Burundi, Burundi francs	M618REX	1957.01
Cameroon Republic, CFA francs	M622REX	1957.01
Canada, Canadian dollars	M156REX	1957.01
Cape Verde, Cape Verde escudos	M624REX	1957.01
Cayman Islands, Cayman Islands dollars	M377REX	1983.11
Central African Republic, CFA francs	M626REX	1957.01
Chad, CFA francs	M628REX	1957.01
Chile, Chilean Pesos (official, preferential rate)	M228REX	1957.01
China, Renminbi yuan	M924REX	1957.01
Colombia, Colombian pesos (official rate)	M233REX	1957.01
Comoros, CFA francs	M632REX	1957.01
Congo, CFA francs	M634REX	1957.01
Costa Rica, Costa Rican colones	M238REX	1957.01
Cote D'Ivoire, CFA francs	M662REX	1957.01
Cuba, Cuban pesos	M928REX	1983.11
Cyprus, Cyprus pounds	M423REX	1957.01
Czech Republic, Czechoslovak koruna (official rate)	M935REX	1983.11
Denmark, Danish krone	M128REX	1957.01
Djibouti, Djibouti francs	M611REX	1957.01
Dominica, East Caribbean dollars	M321REX	1957.01
Dominican Republic, Dominican Republic pesos	M243REX	1980.02
Ecuador, Ecuadoran sucres (freemarket rate)	M248REX	1983.11
Egypt, Egyptian pounds (official rate)	M469REX	1957.01
Equatorial Guinea, CFA francs	M642REX	1957.01
El Salvador, El Salvadoran colones (freemarket rate)	M253REX	1957.01
Ethiopia, Ethiopian birr (official rate)	M644REX	1957.01
Faeroe Islands, Danish krone	M816REX	1983.11
Falkland Islands, pounds sterling	M323REX	1983.11
Fiji, Fiji dollars	M819REX	1957.01
Finland, Finnish markka	M172REX	1957.01
France, French francs	M132REX	1957.01

Monthly Average of Daily Exchange Rates (Continued)

<u>Description</u>	<u>Seriescode</u>	<u>Start Date</u>
French Andorra, French francs	M133REX	1983.11
French Guiana, French francs	M333REX	1983.11
French Pacific Island, CFP francs	M887REX	1983.11
Gabon, CFA francs	M646REX	1957.01
Gambia, Gambian dalasi	M648REX	1957.01
Germany, Deutsche marks	M134REX	1957.01
Ghana, Ghanaian cedi	M652REX	1957.01
Gibraltar, pounds sterling	M823REX	1983.11
Greece, Greek drachma	M174REX	1957.01
Greenland, Danish krone	M326REX	1983.11
Grenada, East Caribbean dollars	M328REX	1957.01
Guadeloupe, French francs	M329REX	1983.11
Guatemala, Guatemalan quetzales (official rate)	M258REX	1957.01
Guinea Republic, Guinea Republic francs	M656REX	1986.01
Guinea-Bissau, Guinea-Bissau pesos	M654REX	1957.01
Guyana, Guyana dollars	M336REX	1957.01
Haiti , Haitian gourdes	M263REX	1957.01
Honduras, Honduran lempira (freemarket rate)	M268REX	1957.01
Hong Kong, Hong Kong dollars	M532REX	1957.01
Hungary, Hungarian forint	M944REX	1968.01
Iceland, Icelandic krona	M176REX	1957.01
India, Indian rupees	M534REX	1957.01
Indonesia, Indonesian rupiahs	M536REX	1967.01
Iran, Iranian rials (official rate)	M429REX	1957.01
Ireland, Irish punt	M178REX	1957.01
Israel, Israeli new shekel	M436REX	1957.01
Italy, Italian lira	M136REX	1957.01
Jamaica, Jamaican dollars	M343REX	1957.01
Japan, Japanese yen	M158REX	1957.01
Jordan, Jordan dinars	M439REX	1957.01
Kenya, Kenyan shillings	M664REX	1957.01
Kiribati, Australian dollars	M826REX	1983.11
Kuwait, Kuwaiti dinars	M443REX	1957.01
Laos, People's Democratic Republic of, Lao kip	M544REX	1957.01
Lebanon, Lebanese pounds	M446REX	1957.01
Lesotho, Lesotho maloti	M666REX	1957.01
Liberia, Liberian dollars	M668REX	1957.01
Libya, Libyan dinars	M672REX	1957.01
Luxembourg, Luxembourg francs	M137REX	1957.01
Macao, Macao patacas	M546REX	1983.11
Madagascar, Malagasy francs	M674REX	1957.01
Malawi, Malawi kwacha	M676REX	1957.01
Malaysia, Malaysian ringgit	M548REX	1957.01
Maldives Islands, Maldivian rufiyaa	M556REX	1957.01
Mali, CFA francs	M678REX	1957.01
Malta, Maltese lira	M181REX	1957.01
Martinique, French francs	M349REX	1983.11
Mauritania, Mauritanian ouguiya	M682REX	1957.01
Mauritius, Mauritius rupees	M684REX	1957.01
Mexico, Mexican pesos (freemarket rate)	M273REX	1982.08
Mongolia, Mongolian tugrik (official rate)	M948REX	1983.11
Montserrat, East Caribbean dollars	M351REX	1983.11
Morocco, Moroccan dirham	M686REX	1957.01
Mozambique, Mozambique metical	M688REX	1983.11
Myanmar, Myanmar kyat	M518REX	1957.01
Namibia, South African rand	M728REX	1983.11
Nauru Island, Australian dollars	M836REX	1983.11
Nepal, Nepalese rupees	M558REX	1957.01
Netherlands Antilles, Netherlands Antilles guilders	M353REX	1957.01
Netherlands, Netherlands guilders	M138REX	1957.01

Monthly Average of Daily Exchange Rates (Continued)

<u>Description</u>	<u>Seriescode</u>	<u>Start Date</u>
New Zealand, New Zealand dollars	M196REX	1957.01
Nicaragua, Nicaraguan new cordobas	M278REX	1957.01
Niger Republic, CFA francs	M692REX	1957.01
Nigeria, Nigerian naira (freemarket rate)	M694REX	1986.10
North Korea, North Korean won	M954REX	1983.11
Norway, Norwegian krone	M142REX	1957.01
Oman, Omani rials	M449REX	1957.01
Pakistan, Pakistan rupees	M564REX	1957.01
Panama, Panamanian balboa	M283REX	1957.01
Papua New Guinea, Papua New Guinea kina	M853REX	1957.01
Paraguay, Paraguayan guaranies (freemarket rate)	M288REX	1957.01
Peru, new soles	M293REX	1960.01
Philippines, Philippine pesos	M566REX	1957.01
Poland, Polish zloty (official rate)	M964REX	1983.11
Portugal, Portuguese escudo	M182REX	1957.01
Qatar, Qatari riyald	M453REX	1966.01
Reunion, French francs	M696REX	1983.11
Romania, Romanian leu (commercial rate)	M968REX	1957.01
Rwanda, Rwanda francs	M714REX	1957.01
Sao Tome and Principe, Sao Tome and Principe dobra	M716REX	1957.01
Saudi Arabia, Saudi Arabian riyals	M456REX	1957.01
Senegal, CFA francs	M722REX	1957.01
Seychelles, Seychelles rupees	M718REX	1957.01
Sierra Leone, Sierra Leonean leone	M724REX	1957.01
Singapore, Singapore dollars	M576REX	1957.01
Solomon Islands, Solomon Islands dollars	M813REX	1957.01
Somali, Somali shillings	M726REX	1957.01
South Africa, South African rand (commercial rate)	M199REX	1957.01
South Korea, South Korean won	M542REX	1957.01
Spain, Spanish pesetas	M184REX	1957.01
Sri Lanka, Sri Lanka rupees	M524REX	1957.01
St. Lucia, East Caribbean dollars	M362REX	1957.01
St. Christopher, East Caribbean dollars	M358REX	1983.11
St. Helena, pounds sterling	M856REX	1983.11
St. Pierre, French francs	M363REX	1983.11
St. Vincent, East Caribbean dollars	M364REX	1957.01
Sudan, Sudanese pounds	M732REX	1957.01
Surinam, Surinam guilders	M366REX	1957.01
Swaziland, Swaziland lilangeni	M734REX	1957.01
Sweden , Swedish krona	M144REX	1957.01
Switzerland, Swiss francs	M146REX	1957.01
Syria, Syrian pounds (official rate)	M463REX	1957.01
Taiwan, Taiwan dollars (official rate)	M528REX	1980.01
Tanzania, Tanzanian shillings	M738REX	1957.01
Thailand, Thai baht	M578REX	1957.01
Togo, CFA francs	M742REX	1957.01
Tonga Island, Tongan pa'anga	M866REX	1983.11
Trinidad and Tobago, Trinidad and Tobago dollars	M369REX	1986.01
Tunisia, Tunisian dinars	M744REX	1957.01
Turkey, Turkish lira	M186REX	1957.01
Tuvalu, Australian dollars	M869REX	1983.11
Uganda, Ugandan new shillings	M746REX	1957.01
United Arab Emirates, United Arab Emirates dirham	M466REX	1966.01
United Kingdom, pounds sterling	M112REX	1957.01
Uruguay, Uruguayan pesos (market rate)	M298REX	1957.01
Vanatu, Vanuatu vatu	M846REX	1957.01
Venezuela, Venezuelan bolivares (freemarket rate)	M299REX	1957.01
Vietnam, Vietnamese dong	M582REX	1986.01
West Germany, Deutsche marks	M134REX	1957.01
Western Samoa, Samoan tala	M862REX	1957.01

Monthly Average of Daily Exchange Rates (Continued)

<u>Description</u>	<u>Seriescode</u>	<u>Start Date</u>
Yemen Arab Republic, Yemen rials	M473REX	1968.12
Yugoslavia, Ugoslav dinars	M188REX	1957.01
Zaire, Zaire zaires	M636REX	1957.01
Zambia, Zambian kwacha	M754REX	1957.01
Zimbabwe, Zimbabwean dollars	M698REX	1957.01
Monthly Average of Daily Exchange Rates, U. S. Dollars Per NCU:		
Cyprus, Cyprus pound, IFS	M423REXD	1957.01
Falkland Islands, Friday exchange rate, pound sterling, BOA	M323REXD	1983.11
Gibraltar, Friday exchange rate, pound sterling, BOA	M823REXD	1983.11
Ireland, Irish punt, IFS	M178REXD	1957.01
Malta, Maltese lira, IFS	M181REXD	1957.01
St. Helena, Friday exchange rate, pound sterling, BOA	M856REXD	1983.11
United Kingdom, pound sterling, IFS	M112REXD	1957.01

Average of Daily Exchange Rates

Units: NCU per U.S. dollar
Source: International Financial Statistics, or Bank of America

<u>Description</u>	<u>Seriescode</u>	<u>Start Date</u>
Average of Daily Exchange Rates		
Ecuador, Ecuadoran sucres (financial rate)	M248REX1	1957.01
Egypt, Egyptian pounds (floating rate)	M469REX1	1985.02
Guinea Republic, Guinea Republic francs (public transaction rate)	M656REX1	1986.02
Mexico, Mexican pesos (controlled rate) per U.S. dollar, IFS	M273REX1	1957.01

Fixed Conversion Rate to the EURO

Units: NCU per EURO
Source: European Commission

<u>Description</u>	<u>Seriescode</u>	<u>Start Date</u>
Austria, Austrian Schillings per EURO	A122REXEUR	1998.12
Belgium, Belgian Francs per EURO	A124REXEUR	1998.12
Finland, Finnish Markkas per EURO	A172REXEUR	1998.12
France, French Francs per EURO	A132REXEUR	1998.12
Germany, Deutsche Marks per EURO	A134REXEUR	1998.12
Ireland, Irish Pounds per EURO	A178REXEUR	1998.12
Italy, Italian Liras per EURO	A136REXEUR	1998.12
Luxembourg, Luxembourg Francs per EURO	A137REXEUR	1998.12
Netherlands, Dutch Guilders per EURO	A138REXEUR	1998.12
Portugal, Portuguese Escudos per EURO	A182REXEUR	1998.12
Spain, Spanish Pesetas per EURO	A184REXEUR	1998.12