# Data Appendix

This appendix describes the details of data construction and the robustness of empirical results.

#### 5.1 Pairwise Returns

To show that the trading strategies are both unconditional in nature, and not driven by any one currency pair, we present the returns of currency pairs for each combination of short a final good producer currency and long a commodity country currency, as well as portfolios of all commodity countries or all producer countries. Table A-1 shows the results.

### 5.2 Classification of goods

We assign individual goods to "Basic" (input) and "Complex" (finished) groups based on the descriptions of 4-digit SITC (Revision 4) categories available from the U.N. Table A-2 lists classifications aggregated at a 2-digit SITC level, with the number of 4-digit sub-categories falling into each of the two groups. Detailed breakdown is available upon request.

## 5.3 Currency strategies and transaction costs

We investigate the effect of transaction costs on the profitability of trading strategies based on the combined export/import sort. We use bid-ask quotes for forward and spot exchange rates from Reuters. Lyons (2001) reports that bid and ask quotes published by Reuters imply bid-ask spreads that are approximately twice as large as actual inter-dealer spreads. We assume that net excess returns take place at these quotes. As a result, our estimates of the transaction costs are conservative, at least from the standpoint of a large financial institution. Since our strategy is based on sorting currencies using trade data that is available at annual frequency, a natural approach for minimizing the transaction costs is to use one-year forward contracts. Therefore, we compute returns on rolling one-year forward contracts, but in order to avoid the arbitrary choice of the starting month, we construct the portfolio returns at monthly frequency (i.e., using overlapping yearly returns). Table A-3 lists the average depreciation of

Table A-1: Pairwise Currency Strategy Returns

Long L	$\overline{ m eg}$			Short Le	 g	
						Producer
		Europe /			Switzer-	Country
		Germany	Japan	Sweden	land	Portfolio
Australia	Return	3.90	5.22*	3.20	4.25	4.14*
	SE	(2.41)	(3.10)	(2.34)	(2.68)	(2.33)
	SR	0.09	0.10	0.08	0.09	0.10
Canada	Return	1.82	3.14	1.12	2.17	2.06
	SE	(2.21)	(2.71)	(2.16)	(2.47)	(2.04)
	SR	0.05	0.07	0.03	0.05	0.06
N	D +	0.1.14	0.40	- 44	2.40	2.20*
Norway	Return	2.14*	3.46	1.44	2.49	2.38*
	SE	(1.23)	(2.66)	(1.36)	(1.62)	(1.31)
	SR	0.10	0.07	0.06	0.09	0.11
New Zealand	Return	3.77*	5.09*	3.07	4.12*	4.01*
New Zearand	SE	(2.18)	(2.89)	(2.22)	(2.35)	(2.08)
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	SR	0.10	0.10	0.08	0.10	0.11
Commodity	Return	2.91*	4.22	2.21	3.26*	3.15**
Country	SE	(1.64)	(2.56)	(1.64)	(1.96)	(1.54)
Portfolio	SR	0.10	0.10	0.08	0.10	0.12

Robust standard errors in parentheses \*\*\* p < 0.01, \*\* p < 0.05, \* p < 0.1

Excess mean returns and Sharpe ratios on pairwise and portfolio trading strategies for G10 commodity and final producer currencies. Returns are calculated using monthly forward returns for a strategy going long a commodity country currency of Australia, Canada, Norway, and New Zealand (or an equal weighted portfolio of all four), and short a producer country currency of Europe (or the German Deutschmark Pre-1999), Japan, Sweden, and Switzerland (or an equal weighted portfolio). White (1980) standard errors in parentheses. Data is 1988 to 2012, and returns do not include transaction costs.

Table A-2: COMTRADE Goods Classification

SITC   Description   Basic   Complex			0.1.4	. 1 .6 1
00         Live animals         13         2           01         Meat and meat preparations         14         0           02         Dairy products and eggs         10         0           03         Fish and fish preparations         24         0           04         Cereals and cereal preparations         24         0           05         Fruit and vegetables         25         1           06         Sugar, sugar preparations and honey         4         4           07         Coffee, tea, cocoa, spices and manufacs. thereof         10         5           08         Feed. Stuff for animals excl. Unmilled cereals         6         0           09         Miscellaneous food preparations         5         0           11         Beverages         0         7           12         Tobacco and tobacco manufactures         4         4           21         Hides, skins and fur skins, undressed         9         0           22         Oil seeds, oil nuts and oil kernels         14         0           22         Oil seeds, oil nuts and oil kernels         14         0           24         Wood, lumber and cork         14         0           25         Pulp a	CITC	Description		
01         Meat and meat preparations         14         0           02         Dairy products and eggs         10         0           03         Fish and fish preparations         12         0           04         Cereals and cereal preparations         24         0           05         Fruit and vegetables         25         1           06         Sugar, sugar preparations and honey         4         4           07         Coffee, tea, cocoa, spices and manufacs, thereof         10         5           08         Feed. Stuff for animals excl. Unmilled cereals         6         0           09         Miscellaneous food preparations         5         0           10         Beverages         0         7           12         Tobacco and tobacco manufactures         4         4           21         Hides, skins and fur skins, undressed         9         0           22         Oil seeds, oil nuts and oil kernels         14         0           23         Crude rubber including synthetic and reclaimed         5         0           24         Wood, lumber and core         14         0           25         Pulp and paper         0         7           26	-			
02         Dairy products and eggs         10         0           03         Fish and fish preparations         12         0           04         Cereals and cereal preparations         24         0           05         Fruit and vegetables         25         1           06         Sugar, sugar preparations and honey         4         4           07         Coffee, tea, cocoa, spices and manufacs, thereof         10         5           08         Feed, Stuff for animals exct. Unmilled cereals         6         0           09         Miscellaneous food preparations         5         0           11         Beverages         0         7           12         Tobacco and tobacco manufactures         4         4           21         Hides, skins and fur skins, undressed         9         0           21         Hides, skins and fur skins, undressed         9         0           22         Oil seeds, oil muts and oil kernels         14         0           22         Oil seeds, oil muts and oil kernels         14         0           24         Wood, lumber and cork         14         0           25         Pulp and paper         0         7           26				<del>-</del>
03         Fish and fish preparations         12         0           04         Cereals and cereal preparations         24         0           05         Fruit and vegetables         25         1           06         Sugar, sugar preparations and honey         4         4           07         Coffee, tea, cocoa, spices and manufacs. thereof         10         5           08         Feed. Stuff for animals excl. Unmilled cereals         6         0           09         Miscellaneous food preparations         5         0           11         Beverages         0         7           12         Tobacco and tobacco manufactures         4         4           21         Hides, skins and fur skins, undressed         9         0           22         Oil seeds, oil nuts and oil kernels         14         0           23         Crude rubber including synthetic and reclaimed         5         0           24         Wood, lumber and cork         14         0           25         Pulp and paper         0         7           26         Textile fibres, not manufactured, and waste         32         0           27         Crude fertiligers and crude minerals, nes         23         0				-
04         Cereals and cereal preparations         24         0           05         Fruit and vegetables         25         1           06         Sugar, sugar preparations and honey         4         4           07         Coffee, tea, cocoa, spices and manufacs. thereof         10         5           08         Feed. Stuff for animals exct. Unmilled cereals         6         0           09         Miscellaneous food preparations         5         0           11         Beverages         0         7           12         Tobacco and tobacco manufactures         4         4           21         Hides, skins and fur skins, undressed         9         0           22         Oil seeds, oil nuts and oil kernels         14         0           23         Crude rubber including synthetic and reclaimed         5         0           24         Wood, lumber and cork         14         0           25         Pulp and paper         0         7           26         Textile fibres, not manufactured, and waste         32         0           27         Crude fertilizers and crude minerals, nes         23         0           28         Metalliferous ores and metal scrap         22         0				-
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51         Chemical elements and compounds         0         28           52         Crude chemicals from coal, petroleum and gas         0         14           53         Dyeing, tanning and colouring materials         0         11           54         Medicinal and pharmaceutical products         0         8           55         Perfume materials, toilet and cleansing preptions         0         9           56         Fertilizers, manufactured         0         5           57         Explosives and pyrotechnic products         0         4           58         Plastic materials, etc.         0         28           59         Chemical materials and products, nes         0         13           61         Leather, Ithr. Manufs., nes and dressed fur skins         9         5           62         Rubber manufactures, nes         2         10           63         Wood and cork manufactures excluding furniture         2         12           64         Paper, paperboard and manufactures thereof         0         15           65         Textile yarn, fabrics, made up articles, etc.         0         58           66         Non metallic mineral manufactures, nes         0         39           67         Iron		0		
52         Crude chemicals from coal, petroleum and gas         0         14           53         Dyeing, tanning and colouring materials         0         11           54         Medicinal and pharmaceutical products         0         8           55         Perfume materials, toilet and cleansing preptions         0         9           56         Fertilizers, manufactured         0         5           57         Explosives and pyrotechnic products         0         4           58         Plastic materials, etc.         0         28           59         Chemical materials and products, nes         0         13           61         Leather, lthr. Manufs., nes and dressed fur skins         9         5           62         Rubber manufactures, nes         2         10           63         Wood and cork manufactures excluding furniture         2         12           64         Paper, paperboard and manufactures thereof         0         15           65         Textile yarn, fabrics, made up articles, etc.         0         58           66         Non metallic mineral manufactures, nes         0         39           67         Iron and steel         8         26          68         Non ferrous metals				-
53         Dyeing, tanning and colouring materials         0         11           54         Medicinal and pharmaceutical products         0         8           55         Perfume materials, toilet and cleansing preptions         0         9           56         Fertilizers, manufactured         0         5           57         Explosives and pyrotechnic products         0         4           58         Plastic materials, etc.         0         28           59         Chemical materials and products, nes         0         13           61         Leather, lthr. Manufs., nes and dressed fur skins         9         5           62         Rubber manufactures, nes         2         10           63         Wood and cork manufactures excluding furniture         2         12           64         Paper, paperboard and manufactures thereof         0         15           65         Textile yarn, fabrics, made up articles, etc.         0         58           66         Non metallic mineral manufactures, nes         0         39           67         Iron and steel         8         26           68         Non ferrous metals         26         0           69         Manufactures of metal, nes         0 <td></td> <td></td> <td>-</td> <td></td>			-	
54         Medicinal and pharmaceutical products         0         8           55         Perfume materials, toilet and cleansing preptions         0         9           56         Fertilizers, manufactured         0         5           57         Explosives and pyrotechnic products         0         4           58         Plastic materials, etc.         0         28           59         Chemical materials and products, nes         0         13           61         Leather, lthr. Manufs., nes and dressed fur skins         9         5           62         Rubber manufactures, nes         2         10           63         Wood and cork manufactures excluding furniture         2         12           64         Paper, paperboard and manufactures thereof         0         15           65         Textile yarn, fabrics, made up articles, etc.         0         58           66         Non metallic mineral manufactures, nes         0         39           67         Iron and steel         8         26           68         Non ferrous metals         26         0           69         Manufactures of metal, nes         0         32           71         Machinery, other than electric         0				
55         Perfume materials, toilet and cleansing preptions         0         9           56         Fertilizers, manufactured         0         5           57         Explosives and pyrotechnic products         0         4           58         Plastic materials, etc.         0         28           59         Chemical materials and products, nes         0         13           61         Leather, lthr. Manufs., nes and dressed fur skins         9         5           62         Rubber manufactures, nes and dressed fur skins         9         5           62         Rubber manufactures, nes         2         10           63         Wood and cork manufactures excluding furniture         2         12           64         Paper, paperboard and manufactures thereof         0         15           65         Textile yarn, fabrics, made up articles, etc.         0         58           66         Non metallic mineral manufactures, nes         0         39           67         Iron and steel         8         26           68         Non ferrous metals         26         0           69         Manufactures of metal, nes         0         32           71         Machinery, other than electric         0 <td></td> <td></td> <td>-</td> <td></td>			-	
56         Fertilizers, manufactured         0         5           57         Explosives and pyrotechnic products         0         4           58         Plastic materials, etc.         0         28           59         Chemical materials and products, nes         0         13           61         Leather, lthr. Manufs., nes and dressed fur skins         9         5           62         Rubber manufactures, nes         2         10           63         Wood and cork manufactures excluding furniture         2         12           64         Paper, paperboard and manufactures thereof         0         15           65         Textile yarn, fabrics, made up articles, etc.         0         58           66         Non metallic mineral manufactures, nes         0         39           67         Iron and steel         8         26           68         Non ferrous metals         26         0           69         Manufactures of metal, nes         0         32           71         Machinery, other than electric         0         25           72         Electrical machinery, apparatus and appliances         0         36           73         Transport equipment         0         10     <			-	
57       Explosives and pyrotechnic products       0       4         58       Plastic materials, etc.       0       28         59       Chemical materials and products, nes       0       13         61       Leather, lthr. Manufs., nes and dressed fur skins       9       5         62       Rubber manufactures, nes       2       10         63       Wood and cork manufactures excluding furniture       2       12         64       Paper, paperboard and manufactures thereof       0       15         65       Textile yarn, fabrics, made up articles, etc.       0       58         66       Non metallic mineral manufactures, nes       0       39         67       Iron and steel       8       26         68       Non ferrous metals       26       0         69       Manufactures of metal, nes       0       32         71       Machinery, other than electric       0       25         72       Electrical machinery, apparatus and appliances       0       36         73       Transport equipment       0       4         81       Sanitary, plumbing, heating and lighting fixt.       0       4         82       Furniture       0       2 <td></td> <td></td> <td></td> <td></td>				
58         Plastic materials, etc.         0         28           59         Chemical materials and products, nes         0         13           61         Leather, lthr. Manufs., nes and dressed fur skins         9         5           62         Rubber manufactures, nes         2         10           63         Wood and cork manufactures excluding furniture         2         12           64         Paper, paperboard and manufactures thereof         0         15           65         Textile yarn, fabrics, made up articles, etc.         0         58           66         Non metallic mineral manufactures, nes         0         39           67         Iron and steel         8         26           68         Non ferrous metals         26         0           69         Manufactures of metal, nes         0         32           71         Machinery, other than electric         0         25           72         Electrical machinery, apparatus and appliances         0         36           73         Transport equipment         0         10           81         Sanitary, plumbing, heating and lighting fixt.         0         4           82         Furniture         0         4			-	-
59         Chemical materials and products, nes         0         13           61         Leather, lthr. Manufs., nes and dressed fur skins         9         5           62         Rubber manufactures, nes         2         10           63         Wood and cork manufactures excluding furniture         2         12           64         Paper, paperboard and manufactures thereof         0         15           65         Textile yarn, fabrics, made up articles, etc.         0         58           66         Non metallic mineral manufactures, nes         0         39           67         Iron and steel         8         26           68         Non ferrous metals         26         0           69         Manufactures of metal, nes         0         32           71         Machinery, other than electric         0         25           72         Electrical machinery, apparatus and appliances         0         36           73         Transport equipment         0         10           81         Sanitary, plumbing, heating and lighting fixt.         0         4           82         Furniture         0         4           83         Travel goods, handbags and similar articles         0 <t< td=""><td></td><td></td><td>-</td><td></td></t<>			-	
61       Leather, lthr. Manufs., nes and dressed fur skins       9       5         62       Rubber manufactures, nes       2       10         63       Wood and cork manufactures excluding furniture       2       12         64       Paper, paperboard and manufactures thereof       0       15         65       Textile yarn, fabrics, made up articles, etc.       0       58         66       Non metallic mineral manufactures, nes       0       39         67       Iron and steel       8       26         68       Non ferrous metals       26       0         69       Manufactures of metal, nes       0       32         71       Machinery, other than electric       0       25         72       Electrical machinery, apparatus and appliances       0       36         73       Transport equipment       0       10         81       Sanitary, plumbing, heating and lighting fixt.       0       4         82       Furniture       0       4         83       Travel goods, handbags and similar articles       0       2         84       Clothing       0       35         85       Footwear       0       2         89				
62       Rubber manufactures, nes       2       10         63       Wood and cork manufactures excluding furniture       2       12         64       Paper, paperboard and manufactures thereof       0       15         65       Textile yarn, fabrics, made up articles, etc.       0       58         66       Non metallic mineral manufactures, nes       0       39         67       Iron and steel       8       26         68       Non ferrous metals       26       0         69       Manufactures of metal, nes       0       32         71       Machinery, other than electric       0       25         72       Electrical machinery, apparatus and appliances       0       36         73       Transport equipment       0       10         81       Sanitary, plumbing, heating and lighting fixt.       0       4         82       Furniture       0       4         83       Travel goods, handbags and similar articles       0       2         84       Clothing       0       35         85       Footwear       0       2         89       Miscellaneous manufactured articles, nes       0       39         94       Ani				
63       Wood and cork manufactures excluding furniture       2       12         64       Paper, paperboard and manufactures thereof       0       15         65       Textile yarn, fabrics, made up articles, etc.       0       58         66       Non metallic mineral manufactures, nes       0       39         67       Iron and steel       8       26         68       Non ferrous metals       26       0         69       Manufactures of metal, nes       0       32         71       Machinery, other than electric       0       25         72       Electrical machinery, apparatus and appliances       0       36         73       Transport equipment       0       10         81       Sanitary, plumbing, heating and lighting fixt.       0       4         82       Furniture       0       4         83       Travel goods, handbags and similar articles       0       2         84       Clothing       0       35         85       Footwear       0       2         89       Miscellaneous manufactured articles, nes       0       39         94       Animals, nes, incl. Zoo animals, dogs and cats       2       0				
64       Paper, paperboard and manufactures thereof       0       15         65       Textile yarn, fabrics, made up articles, etc.       0       58         66       Non metallic mineral manufactures, nes       0       39         67       Iron and steel       8       26         68       Non ferrous metals       26       0         69       Manufactures of metal, nes       0       32         71       Machinery, other than electric       0       25         72       Electrical machinery, apparatus and appliances       0       36         73       Transport equipment       0       10         81       Sanitary, plumbing, heating and lighting fixt.       0       4         82       Furniture       0       4         83       Travel goods, handbags and similar articles       0       2         84       Clothing       0       35         85       Footwear       0       2         89       Miscellaneous manufactured articles, nes       0       39         94       Animals, nes, incl. Zoo animals, dogs and cats       2       0				
65       Textile yarn, fabrics, made up articles, etc.       0       58         66       Non metallic mineral manufactures, nes       0       39         67       Iron and steel       8       26         68       Non ferrous metals       26       0         69       Manufactures of metal, nes       0       32         71       Machinery, other than electric       0       25         72       Electrical machinery, apparatus and appliances       0       36         73       Transport equipment       0       10         81       Sanitary, plumbing, heating and lighting fixt.       0       4         82       Furniture       0       4         83       Travel goods, handbags and similar articles       0       2         84       Clothing       0       35         85       Footwear       0       2         89       Miscellaneous manufactured articles, nes       0       39         94       Animals, nes, incl. Zoo animals, dogs and cats       2       0				
66       Non metallic mineral manufactures, nes       0       39         67       Iron and steel       8       26         68       Non ferrous metals       26       0         69       Manufactures of metal, nes       0       32         71       Machinery, other than electric       0       25         72       Electrical machinery, apparatus and appliances       0       36         73       Transport equipment       0       10         81       Sanitary, plumbing, heating and lighting fixt.       0       4         82       Furniture       0       4         83       Travel goods, handbags and similar articles       0       2         84       Clothing       0       35         85       Footwear       0       2         89       Miscellaneous manufactured articles, nes       0       39         94       Animals, nes, incl. Zoo animals, dogs and cats       2       0				
67       Iron and steel       8       26         68       Non ferrous metals       26       0         69       Manufactures of metal, nes       0       32         71       Machinery, other than electric       0       25         72       Electrical machinery, apparatus and appliances       0       36         73       Transport equipment       0       10         81       Sanitary, plumbing, heating and lighting fixt.       0       4         82       Furniture       0       4         83       Travel goods, handbags and similar articles       0       2         84       Clothing       0       35         85       Footwear       0       2         89       Miscellaneous manufactured articles, nes       0       39         94       Animals, nes, incl. Zoo animals, dogs and cats       2       0		· · · · · · · · · · · · · · · · · · ·		
68       Non ferrous metals       26       0         69       Manufactures of metal, nes       0       32         71       Machinery, other than electric       0       25         72       Electrical machinery, apparatus and appliances       0       36         73       Transport equipment       0       10         81       Sanitary, plumbing, heating and lighting fixt.       0       4         82       Furniture       0       4         83       Travel goods, handbags and similar articles       0       2         84       Clothing       0       35         85       Footwear       0       2         89       Miscellaneous manufactured articles, nes       0       39         94       Animals, nes, incl. Zoo animals, dogs and cats       2       0				
69       Manufactures of metal, nes       0       32         71       Machinery, other than electric       0       25         72       Electrical machinery, apparatus and appliances       0       36         73       Transport equipment       0       10         81       Sanitary, plumbing, heating and lighting fixt.       0       4         82       Furniture       0       4         83       Travel goods, handbags and similar articles       0       2         84       Clothing       0       35         85       Footwear       0       2         89       Miscellaneous manufactured articles, nes       0       39         94       Animals, nes, incl. Zoo animals, dogs and cats       2       0				
71       Machinery, other than electric       0       25         72       Electrical machinery, apparatus and appliances       0       36         73       Transport equipment       0       10         81       Sanitary, plumbing, heating and lighting fixt.       0       4         82       Furniture       0       4         83       Travel goods, handbags and similar articles       0       2         84       Clothing       0       35         85       Footwear       0       2         89       Miscellaneous manufactured articles, nes       0       39         94       Animals, nes, incl. Zoo animals, dogs and cats       2       0				
72       Electrical machinery, apparatus and appliances       0       36         73       Transport equipment       0       10         81       Sanitary, plumbing, heating and lighting fixt.       0       4         82       Furniture       0       4         83       Travel goods, handbags and similar articles       0       2         84       Clothing       0       35         85       Footwear       0       2         89       Miscellaneous manufactured articles, nes       0       39         94       Animals, nes, incl. Zoo animals, dogs and cats       2       0				
73       Transport equipment       0       10         81       Sanitary, plumbing, heating and lighting fixt.       0       4         82       Furniture       0       4         83       Travel goods, handbags and similar articles       0       2         84       Clothing       0       35         85       Footwear       0       2         89       Miscellaneous manufactured articles, nes       0       39         94       Animals, nes, incl. Zoo animals, dogs and cats       2       0		<b>v</b> /		
81       Sanitary, plumbing, heating and lighting fixt.       0       4         82       Furniture       0       4         83       Travel goods, handbags and similar articles       0       2         84       Clothing       0       35         85       Footwear       0       2         89       Miscellaneous manufactured articles, nes       0       39         94       Animals, nes, incl. Zoo animals, dogs and cats       2       0		*:		
82       Furniture       0       4         83       Travel goods, handbags and similar articles       0       2         84       Clothing       0       35         85       Footwear       0       2         89       Miscellaneous manufactured articles, nes       0       39         94       Animals, nes, incl. Zoo animals, dogs and cats       2       0				
83       Travel goods, handbags and similar articles       0       2         84       Clothing       0       35         85       Footwear       0       2         89       Miscellaneous manufactured articles, nes       0       39         94       Animals, nes, incl. Zoo animals, dogs and cats       2       0				
84       Clothing       0       35         85       Footwear       0       2         89       Miscellaneous manufactured articles, nes       0       39         94       Animals, nes, incl. Zoo animals, dogs and cats       2       0				
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Miscellaneous manufactured articles, nes 0 39 Animals, nes, incl. Zoo animals, dogs and cats 2 0		<u> </u>		
94 Animals, nes, incl. Zoo animals, dogs and cats 2 0				
95 Firearms of war and ammunition therefor 0 2	95	Firearms of war and ammunition therefor	0	2

Each row represents a 2-digit Standard International Trade Classification category according to SITC Rev. 4. The classification columns show the number of 4-digit sub-categories classified as each type of good (Basic or Complex). Descriptions are from the United Nations Statistics Division.

the currencies in each portfolio, average (log) forward discount, and average excess returns with and without bid-ask spreads applied.

### 5.4 Panel Regressions of Currency Returns

As an alternative to the currency sorts presented in the main text, here we provide OLS regressions of currency returns and forward discounts on explanatory variables. We compare the explanatory power of our Import Ratio to GDP for both returns and discounts. Table A-4 shows the results. Panel A shows the results of an OLS regression of yearly currency returns on Import Ratios and GDP, as well as on lagged forward discounts for the full sample (1988 to 2012) with year fixed effects. Panel B shows the results of a single cross sectional regression of average currency returns during the post-Euro sample (1999 to 2012) on the 1999 Import Ratio and GDP, as well as on the average interest rate over the first half of the sample. Panel C shows results of a regression of yearly forward discounts for the full sample on the Import Ratio and GDP again with year fixed effects. Panel D shows the results of a regression of average post-Euro forward discounts on 1999 Import Ratio and GDP as well as average interest rates in the first half of the sample.

Table A-3: One-Year Returns on Import/Export Sorted Portfolios, All Countries

Portfolio	1	2	3	4	5	6
	S	pot Char	nge: $\Delta s^{j}$	(with	out b-	a)
Mean	0.08	-0.37	-1.03	0.37	1.33	-0.50
Std	6.77	9.90	9.36	8.87	9.19	9.14
		Forwar	d Discou	$ant: f^{j}$	$j-s^j$	
Mean	-0.48	1.29	1.15	1.99	2.19	2.23
Std	1.87	2.19	2.39	2.29	1.32	1.63
	Log	Excess I	Return:	$rx^j$ (w	ithout	b-a)
Mean	-0.56	1.66	2.18	1.61	0.86	2.73
Std	7.29	9.93	9.15	8.99	9.45	9.18
SR	-0.08	0.17	0.24	0.18	0.09	0.30
	Ex	ccess Ret	turn: $rx$	j (with	out b	$\cdot$ a)
Mean	0.01	2.32	2.80	2.29	1.62	3.38
Std	7.09	9.93	9.42	8.87	9.80	9.39
SR	0.00		0.30			0.36
	Net	Excess	Return:	$rx_{net}^j$	(with 1	o-a)
Mean	0.27		2.61			3.17
Std	7.16	9.93	9.39	8.84	9.78	9.38
SR	0.04	0.21	0.28	0.24	0.14	0.34
	Higl	h-minus-	Low: $rx$	$j_{net}$ (wi	thout	b-a)
Mean		2.31	2.79			3.37
Std		6.57	6.58	5.93	7.59	6.96
SR		0.35	0.42	0.38	0.21	0.48
	High-r	ninus-Lo	ow: $rx_{ne}^{j}$	$t - rx_n^1$	net (wit	h b-a)
Mean		1.80	2.34		1.13	2.90
Std		6.58	6.58	5.95	7.60	6.92
SR		0.27	0.36	0.30	0.15	0.42

Note: Portfolios are rebalanced annually. Reported returns are sampled monthly with overlap. Sample is 1/1988-12/2012.

Table A-4: Regressions of Returns and Discounts on Import Ratio and GDP

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		Panel A:	Yearly Ex	Panel A: Yearly Excess Currency Returns	cy Returns	Panel B	: Post Eu	Panel B: Post Euro Average	Returns
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Import Ratio	0.716**		0.641*	0.156	1.122***		0.915***	0.808**
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		(0.340)		(0.364)	(0.371)	(0.312)		(0.318)	(0.281)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Log GDP Ratio		-0.351	-0.165	0.0525		-0.613**	-0.387*	-0.373
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			(0.273)	(0.292)	(0.290)		(0.236)	(0.216)	(0.216)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	agged Forward Discount				0.603***				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					(0.129)				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Pre-Euro Interest Rate								0.0887**
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									(0.0349)
Panel C: Yearly Forward Discounts         Panel D: Post Euro Average Discounts           0.0574***         0.822***         0.884*         0           0.0689)         (0.0715)         (0.433)         (0.464)         (0           (0.0967)         (0.110)         (0.313)         (0.316)         (0           0.108         0.060         0.128         0.229         0.130         0.270           494         494         494         22         22         22	$R^2$	0.009	0.004	0.010	0.055	0.392	0.253	0.480	0.642
Panel C: Yearly Forward Discounts         Panel D: Post Euro Average Discounts           0.974***         0.822***         1.056**         0.884*         0           (0.0689)         (0.0715)         (0.433)         (0.464)         (0           (0.0967)         (0.110)         (0.313)         (0.316)         (0           0.108         0.060         0.128         0.279         0.130         0.270           494         494         494         22         22         22	Z	494	494	494	494	22	22	22	22
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		Panel	C: Yearly	Forward Di	scounts	Panel D:	Post Eur	o Average	Discounts
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Import Ratio			0.822***		1.056**		0.884*	0.710*
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		(0.0689)		(0.0715)		(0.433)		(0.464)	(0.385)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Log GDP Ratio		-0.571***	-0.349***			-0.542*	-0.323	-0.117
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			(0.0967)	(0.110)			(0.313)	(0.316)	(0.296)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Pre-Euro Interest Rate								0.160***
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									(0.0478)
494 494 22 22 22	$R^2$	0.108	0.060	0.128		0.229	0.130	0.270	0.550
	Z	494	494	494		22	22	22	22

Robust standard errors in parentheses \*\*\* p < 0.01, \*\* p < 0.05, \* p < 0.1

country, and the independent variables the rolling averages of the previous 4 years of the Import Ratio and the Log GDP Ratio, as well as the lagged Forward Discount. In Panel B the dependent variable is the average yearly return for the post-Euro sample (1999 to 2012), and the independent variables are the average import ratio, GDP ratio, and interest rate for the pre-Euro (1988 to 1999) sample. In Panel C the dependent variable is the yearly forward discount on 1-year contracts and the yearly Import Ratio and Log GDP Ratio as in Panel A. In Panel D the dependent variable is the average yearly discount for the post-Euro sample, and the independent variables are as in Panel B. Panels A and C include yearly fixed effects. Log GDP Ratio is defined as the log of the ratio of each countries' yearly GDP to the GDP of the United States. Import Ratio is as defined in Table 1 of OLS regressions with robust standard errors in parentheses. In Panel A the dependent variable is yearly returns from 1-year forward contracts for each the text.