CHAPTER 19 Globalization and International Investing

19.1 GLOBAL MARKETS FOR EQUITIES

Background

Global market

- US stock exchanges make up approximately 45.8% of all markets
- Emerging market development
- Market capitalization and GDP

Figure 19.1 Per Capita GDP and Market Capitalization as a Percentage of GDP Log Scale 2003



Issues

- What are the risks involved in investment in foreign securities
- How do you measure benchmark returns on foreign investments
- Are there benefits to diversification in foreign securities

19.2 RISK FACTORS IN INTERNATIONAL INVESTING

Exchange Rate Risk

- Variation in return related to changes in the relative value of the domestic and foreign currency
- Total Return = Investment return plus return on foreign exchange
- Not possible to completely hedge a foreign investment

Returns with Foreign Exchange

- Return in US is a function of two factors
 - 1. Return in the foreign market
 - 2. Return on the foreign exchange

Returns with Foreign Exchange

 $1 + r(US) = \left[1 + r_f(FE)\right] \frac{E_1}{E_0}$

- r(US) = return on the foreign investment in US Dollars
- *r*(*FM*) = return on the foreign market in local currency
- E_0 = original exchange rate
- E_1 = subsequent exchange rate

Return Example: Dollar Depreciates Relative to the Pound

Initial Investment : \$100,000 Initial Exchange: \$2.00/ Pound Sterling Final Exchange: \$2.10/ Pound Sterling Return in British Security: 10% Return in US Dollars $(1 + r_{US}) = (1.10) (1.05) = (1.155)$ $r_{US} = 15.5\%$

Return Example: Dollar Appreciates Relative to the Pound

Initial Investment : \$100,000 Initial Exchange: \$2/ Pound Sterling Final Exchange: \$1.85/ Pound Sterling Return in British Security: 10% Return in US Dollars $(1 + r_{US}) = (1.10) (.9250) = (1.0175)$ $r_{US} = 1.75\%$

Figure 19.2 Stock Market Returns in US Dollars and Local Currencies for 2003



TABLE 19.3					
Rates of change in the					
		A. Standard Dev	iation (annualized)		_
Country Currency Standard deviation	Euro (€) 10.20	U.K. (£)	Japan (¥)	Australia (\$A)	Canada (\$C)
		B. Correle	ation Matrix		
	Euro	U.K.	Japan	Australia	Canada
Euro	1.00				
U.K.	0.73	1.00			
Japan	0.44	0.32	1.00		
Australia	0.48	0.32	0.37	1.00	
Canada	0.31	0.23	0.26	0.75	1.00
	C. Average A	nnual Returns from R	olling Over One-Mon	th LIBOR Rates	
					Standard
			<i>.</i>		Deviation of the
Country	Currency	Currency	Exchange Rates	Return in U.S. \$	Average Annua Return
U.S.		3.68		3.68	
Australia	AS	5.06	-2.74	2.33	5.36
Canada	C\$	4.01	-3.14	0.87	2.84
U.K.	£	4.84	-0.45	4.40	3.29
Europe	€	3.41	0.14	3.55	4.56
Japan	¥	0.15	-0.10	0.06	4.54

Other Risks in International Investing

- Imperfect exchange rate risk hedging
- Country Specific
- Composition
 - Political
 - Financial
 - Economic
- Composite Ratings

2004 and November 2003						
TABLE 19.4 Comparing for Conduct 2004 and November 2003						
Rank October 2004	Country	Composite Risk Rating October 2004	Composite Risk Rating November 2003	October 2004 Minus November 2003	Rank in Novembe 2003	
1 14 15	Very low risk Norway Japan United Kingdom	92.3 84.5 84.0	90.5 86.3 84.0	1.75 -1.75 0	2 9 17	
42 44 55 67	Low risk United States China Mexico India	77.5 76.8 74.8 71.8	75.8 77.3 70.5 69.0	1.75 -0.5 4.25 2.75	48 40 65 72	
86 109	Moderate risk Argentina Indonesia	67.5 62.5	64.0 60.8	3.5 1.75	92 108	
119 125	Lebanon Sierra Leone Very high risk	59.0 58.3	55.5 50.8	3.5 7.5	124 133	
139 140	Iraq Zimbabwe	38.0 36.3	41.5 34.3	-3.5 2	138 140	

Table 19.5 Variables Used in the PRSs Political Risk Scores

TABLE 19.5		
Variables used in PRS's po		
Political Risk Variables	Financial Risk Variables	
Government stability Socioeconomic conflict Investment profile Internal conflicts External conflicts Corruption Military in politics Religious tensions Law and order Ethnic tensions Democratic accountabil Bureaucracy quality	Foreign deb 1% of GDP) ns Foreign debt server (\$ of GDP) Current account (\$ of exports) Net leyaidhy in morants of import Exchange rate stability	ts

Economic Risk Variables GDP per capita Real annual GDP growth Annual inflation rate Budget balance (% of GDP) Current account balance (% GDP)

Table 19.6 Current Risk Ratingsand Composite Forecasts

	Composi	te Ratings	Current Ratings		
Country	Year Ago November 2003	Current October 2004	Political Risk October 2004	Financial Risk October 2004	Economic Ris October 2004
Japan	86.3	84.5	82	46.5	40.5
United States	75.8	77.5	82	33.5	39.5
China, People's Rep.	77.3	76.8	70.5	44.5	38.5
India	69	71.8	63.5	44.5	35.5
Indonesia	60.8	62.5	50.5	37.5	37
ource: International Country Ris	sk Guide, October 2004, Table	2B.			



International Investment Choices

- Direct Stock Purchases
- Mutual Funds
 - Open End
 - Closed End
 - WEBS

Questions on Assessing Performance in US Dollars in Foreign Markets

- Are emerging markets riskier
- Is exchange rate risk important in international portfolios
- Are there diversification benefits to international investing













Diversification Benefits

- Evidence shows international diversification is beneficial
- Possible to expand the efficient frontier above domestic only frontier
- Possible to reduce the systematic risk level below the domestic only level

Figure 19.9 International Diversification. Portfolio Diversification as a Percentage of the Average Standard Deviation of a One-Stock Portfolio











19.4 HOW TO GO ABOUT INTERNATIONAL DIVERSIFICATION AND THE BENEFIT WE CAN EXPECT

Risk Reduction

- Choosing among efficient portfolios
- Choosing lowest beta or covariance indexes
- Choosing largest capitalization indexes



19.5 INTERNATIONAL INVESTING AND PERFORMANCE ATTRIBUTION

Performance Attribution

- Currency Selection
- Country Selection
- Stock Selection
- Cash / Bond Selection