Chapter 5 **XXX** Factor movements between countries

International Economics



Counterfactual Analysis

» How would relative wages have evolved without emigration, assuming same capital accumulation?

»
$$\approx \frac{195}{70} = 2.7X$$
 (my calculation from next graph)

Immigration to the New World



- » Q: Is it reasonable to assume same capital accumulation?
- » What difference would it make for the counterfactual?

Immigration to the New World







- » A study has compared the effect of the Mariel boat lift on two sectors:
 - > The apparel industry (textile)
 - > The high-skilled industries
- » The following graph is consistent with the Ryb. Theorem!
 - > Slowdown in the downward trend in the decline of the apparel industry.
 - > Marked decline in the high-tech industry.

The Mariel boat lift in Miami



- » Estimation using SR and LR models.
- > SR assumes fixed land and capital stocks
 > Immigration affects mostly workers with either low or high education.
- » LR assumes fixed returns to K
 - > Immigration affects only workers with low education.

Immigration in the USA >

	Less Than 12 Years	12 Years	13-15 Years	16 Years or More	Overall Average
Part A: Effect of Total Immi	gration, 1990-2004				
Nethod:					
Capital and land fixed	-9.0	-2.4	-0.8	-5.0	-3.2
Real return to capital fixed	-4.4	1.0	2.2	-0.2	0.3
Part B: Effect of Illegal Imm	igration, 1990–2004				
Method:					
Real return to capital fixed	-7.9	0.8	0.8	0.8	0.1

Immigration in the USA

- » Singapore had the highest FDI in the World in terms of the size of its economy.
- » The next Table gives different estimations of changes in the capital returns and wages over recent periods.
- » Part A is consistent with the short run model.
- » Part B is mixed
 - > Returns to K are almost constant
 - > Wages go up.
- » Wages going up would be consistent with productivity growth.

FDI in Singapore

	ANNUAL GROWTH RATE (%)		
	Real Rental	Real Wages	Implied Productivity
Part A: Using Production Function	and Marginal Produc	ts	
Time Period:			
1970-1980	-5.0	2.6	-1.5
1980-1990	-1.9	0.5	-0.7
1970-1990	-3.4	1.6	-1.1
Part B: Using Calculated Rental and	f Actual Wages		
Interest Rate Used and Time Period:			
Bank lending rate (1968–1990)	1.6	2.7	2.2
Return on equity (1971–1990)	-0.2	3.2	1.5
Earnings-price ratio (1973-1990)	-0.5	3.6	1.6

FDI in Singapore

Country	Remittances Received (\$ millions)	Net Aid Received (\$ millions)
Albania	\$1,468	\$305
Bangladesh	6,562	1,502
Brazil	4,382	297
Colombia	4,523	731
Croatia	1,394	164
Dominican Republic	3,414	128
India	38,666	1,298
Mexico	27,136	121
Morocco	6,730	1,090
Sudan	1,769	2,104

Gains from immigration >



- » Borjas estimates capital gain of 2% and domestic labor loss of 1.9%. (Consistent with opposition to immigration.)
- » Numbers by Kremer and Watt imply more important effect of immigration. (Considers other countries than USA.)

	Amount of Immigration (% of Home labor)	Increase in GDP (%)
Part A: Calculation of Home Gains		
Study used		
Borjas (1995, 1999), U.S. gains	10%	0.1%-0.4%
Kremer and Watt (2006), Household workers	7	1.2-1.4

Gains from migration >

		Amount of Immigration (% of Home labor)	Increase in GDP (%)
ſ	Part B: Calculation of Regional Gains		
	Study used		
	Walmsley and Winters (2005),		
	From developed to developing countries	3	0.6
	Klein and Ventura (2006),		
	Enlargement of the European Union		
	After 10 years	0.8-1.8	0.2-0.7
	After 25 years	2.5-5.0	0.6-1.8
	After 50 years	4.8-8.8	1.7-4.5
	Very long run	па	8
	Common Labor Market in NAFTA		
	After 10 years	1.0-2.4	0.1-0.4
	After 25 years	2.8-5.5	0.4-1.0
	After 50 years	4.4-9.1	1.3-3.0
	Very long run	na	10.5

Gains from migration >

» W&W estimate world GDP gain of 0.6%

» ...

Gains from migration >