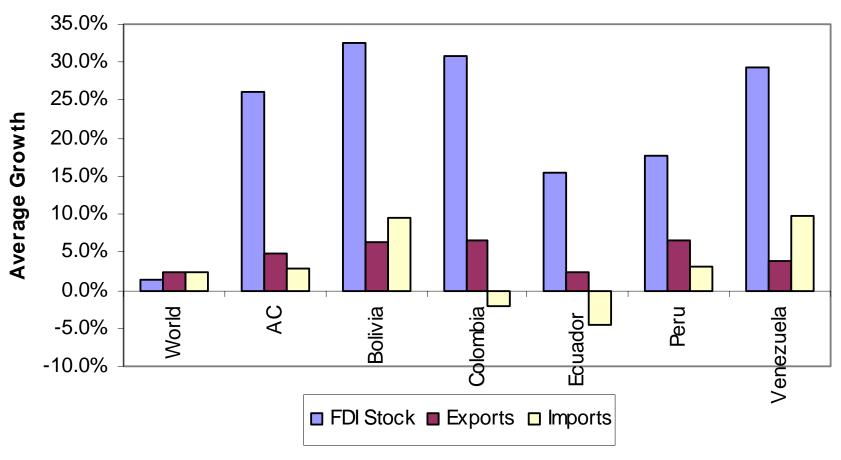
PECC Trade Forum Meeting (Lima, 17-19 May 2002)

Effects of RTAs in Investment Location and Trade Patterns

The Andean Community Case

Fernando Gonzalez-Vigil Carlos Kuriyama Shishido (Universidad del Pacifico)

FDI Inward Stock and Trade Growth in the Andean Community (1994-1999)



Sources: UNCTAD, DATA INTAL and United Nations

Venezuela attracted more FDI in primary sectors. Colombia did it in manufacturing and most service activities...

Andean Community: Accumulated FDI Inflows by Industry (1994-99) US\$ million and shares in percentages

	Accumulate	ed FDI			Shares		
	Andean Com	nmunity	Bolivia	Colombia	Ecuador	Peru	Venezuela
Agriculture, forestry and fishing	296	100%	1.4%	44.6%	12.8%	13.2%	28.0%
Mining and petroleum	16,385	100%	9.8%	9.9%	17.8%	7.0%	55.5%
Manufacturing industry	8,279	100%	3.7%	51.8%	2.6%	11.8%	30.1%
Electricity, gas and water	5,384	100%	5.9%	62.2%	0.0%	28.4%	3.4%
Construction	900	100%	61.0%	18.2%	1.9%	6.0%	12.9%
Trade, hotels and restaurants	1,747	100%	1.9%	49.7%	13.6%	20.8%	14.1%
Transport and communications	4,417	100%	16.8%	20.7%	3.1%	54.8%	4.6%
Financial and business sector	7,498	100%	3.0%	50.6%	0.7%	17.0%	28.7%
Social services	421	100%	0.0%	97.6%	0.2%	0.0%	2.1%
Not specified	9,159	100%	0.0%	0.0%	1.3%	74.2%	24.6%
Total FDI	54,486	100%	7.0%	28.5%	6.8%	26.8%	30.9%

Sources: Andean Community; Banco Central de Bolivia; Banco de la República - Colombia; Banco Central de Ecuador Comisión Nacional de Inversiones y Tecnologías Extranjeras - Peru; Superintendencia de Inversiones Extranjeras - Venezuela

Andean Community: Accumulated FDI Inflows in the Manufacturing Sector (1994-99) US\$ million

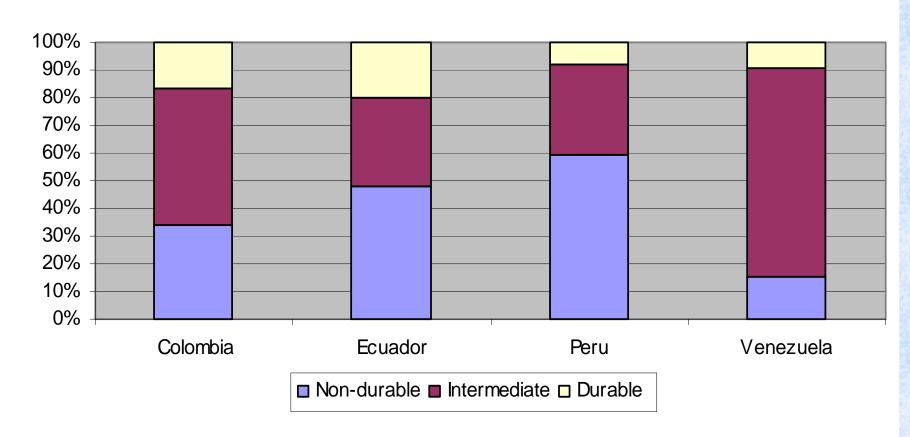
	THE RESERVE OF THE PARTY OF	AND DESCRIPTION OF THE PARTY.	THE RESERVE OF THE PARTY OF THE	A SEA SE OF THE SECOND PROPERTY.	CONTRACTOR DE LOS CONTRACTORS
	AC-4 *	Colombia	Ecuador	Peru	Venezuela
ISIC rev. 2	Inflows	Inflows	Inflows	Inflows	Inflows
Total Manufacturing	7,975	4,290	214	977	2,493
Food, beverages and tobacco (311-314)	1754	913	78	503	261
Textiles, clothing and leather (321-324)	184	121	6	24	33
Wood and wood products (331-332)	16	-6	6	2	14
Publishing, printing and media (341-342)	579	431	13	54	81
Chemical, rubber, plastic products and fuels (351-356)	1876	1,246	55	294	282
Non-metallic mineral products (361-369)	1030	721	8	14	287
Basic metal products (371-372)	1456	137	6	7	1,306
Fabricated metal products, machinery (381-385)	992	662	27	79	225
Other manufacturing (390)	87	66	15	2	5

^{*} Disaggregated Data on Bolivia's FDI Inflows in the manufacturing sector are not available

Sources: Andean Community; Banco de la Republica - Colombia; Banco Central de Ecuador; Comisión Nacional de Inversiones

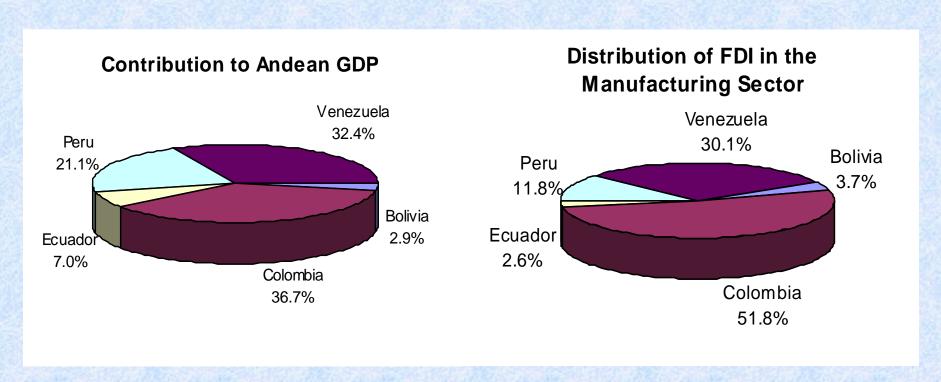
y Tecnologías Extranjeras - Peru; Superintendencia de Inversiones Extranjeras - Venezuela

AC-4: FDI in the Manufacturing Sector by kind of Goods (1994-99)



Sources: IMF; Banco de la República - Colombia; Banco Central de Ecuador; Comisión Nacional de Inversiones y Tecnologías Extranjeras - Perú; Superintendencia de Inversiones Extranjeras - Venezuela

Andean Community: Size of Economies and Share of FDI attracted by the Manufacturing Sector (1994-99)



Sources: IMF; Banco Central de Bolivia; Banco de la República - Colombia; Banco Central de Ecuador; Comisión Nacional de Inversiones y Tecnologías Extranjeras - Perú; Superintendencia de Inversiones Extranjeras - Venezuela

Colombia & Venezuela: main exporters of manufactures; Peru, Ecuador & Bolivia: higher shares as importers...

Andean Community: Total Trade by industry *

US\$ million and shares in percentages

	Total	AC	Bolivia		Colombia		Ecuador		Peru		Venezuela	
ISIC rev. 2	X	M	X	M	X	M	Χ	M	X	М	X	М
31	3,826	2,953	4.8	3.3	41.5	29.4	20.6	9.4	24.6	24.5	8.5	33.4
32	1,603	1,659	3.3	3.3	56.2	36.3	4.4	9.3	30.3	15.8	5.8	35.2
33	181	171	35.4	4.3	14.3	26.9	29.8	8.3	16.0	21.0	4.5	39.5
34	455	1,616	6.5	3.7	49.5	34.5	4.5	11.7	10.4	19.1	29.1	31.0
35	14,308	7,223	0.4	3.6	18.6	38.9	6.8	12.4	2.4	19.8	71.8	25.4
36	646	552	0.6	4.7	58.6	30.5	2.8	15.6	4.9	20.6	33.1	28.7
37	3,037	2,342	3.2	4.3	8.2	36.0	0.6	12.9	41.2	14.5	46.9	32.4
38	1,524	17,027	5.9	5.1	31.2	34.0	7.5	10.2	9.6	17.9	45.7	32.7
39	253	626	13.9	4.2	45.1	34.7	4.5	12.0	21.1	19.3	15.4	29.8
Total Industry	25,833	34,169	2.4	4.4	25.6	34.8	8.0	10.9	12.9	18.7	51.1	31.2

^{*} Average annual trade between 1994 and 1999

Colombia and Venezuela explain nearly 80% of the subregional manufacturing exports; and Peru and Ecuador weight more as intra-AC importers...

Andean Community: Intra-Subregional Trade by Industry*

US\$ million and shares in percentages

	Total	AC	Boliv	Bolivia		Bolivia		Colombia		Ecuador		u	Venezuela	
ISIC rev. 2	X	M	X	М	X	М	X	М	X	М	X	М		
31	590	587	19.9	1.6	34.4	44.5	12.1	13.2	7.1	20.7	26.6	20.0		
32	416	313	5.0	4.5	64.3	24.5	7.3	14.1	12.8	12.8	10.6	44.2		
33	30	28	3.2	1.5	35.4	34.6	44.3	5.7	6.9	18.7	10.2	39.5		
34	201	197	0.9	4.3	62.3	25.9	5.6	27.2	3.9	19.1	27.3	23.6		
35	1,280	1,387	0.4	2.9	44.4	31.1	9.3	15.1	4.7	38.3	41.2	12.6		
36	110	118	1.8	3.7	44.3	36.3	9.2	24.5	5.5	22.3	39.1	13.2		
37	488	495	0.5	2.5	9.6	52.9	3.0	14.2	28.8	12.9	58.1	17.4		
38	792	800	1.8	2.4	36.9	46.7	11.3	18.6	4.2	7.4	45.8	24.8		
39	75	66	0.7	5.8	63.8	20.6	5.4	26.3	8.4	18.2	21.6	29.2		
Total Industry	3,981	3,990	4.1	2.8	40.5	38.1	9.1	16.3	8.8	22.5	37.5	20.2		

^{*} Average annual trade between 1994 and 1999. Due to statistical discrepancies between trade partners, export and import values do not match up.

Relocation of Intra-AC flows:

Net Inflows: Bolivia, Colombia and Venezuela

Net Outflows: Ecuador and Peru

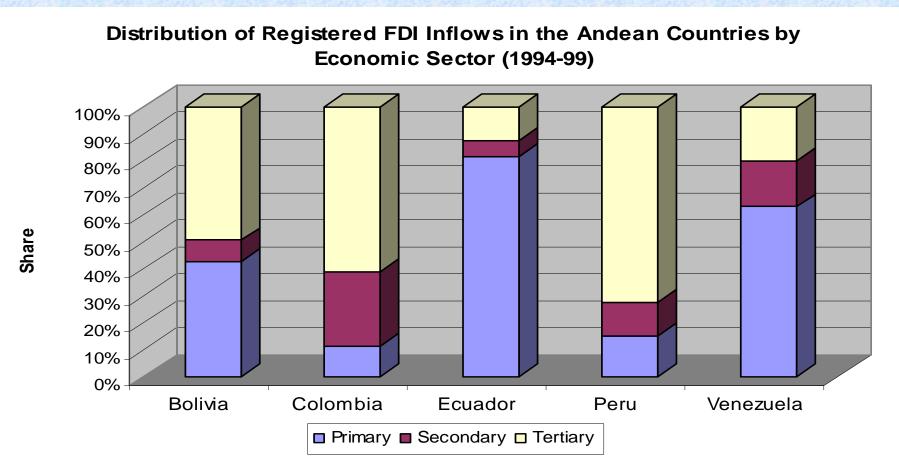
Andean Community: Intraregional FDI flows (1994-99) * US\$ million

Origin \ Destination	Bolivia	Colombia	Ecuador	Peru	Venezuela	Total	% by origin
Bolivia		2	0	1	0	3	0.4%
Colombia	32		40	68	174	314	38.5%
Ecuador	0	150		5	69	224	27.5%
Peru	54	30	0		0	84	10.3%
Venezuela	5	176	10	-1		190	23.3%
Total	91	358	50	73	243	815	100.0%
% by destination	11.2%	43.9%	6.1%	9.0%	29.8%	100.0%	

^{*} Accumulated flows. Based on FDI inflows reported by each Andean country

Source: Andean Community

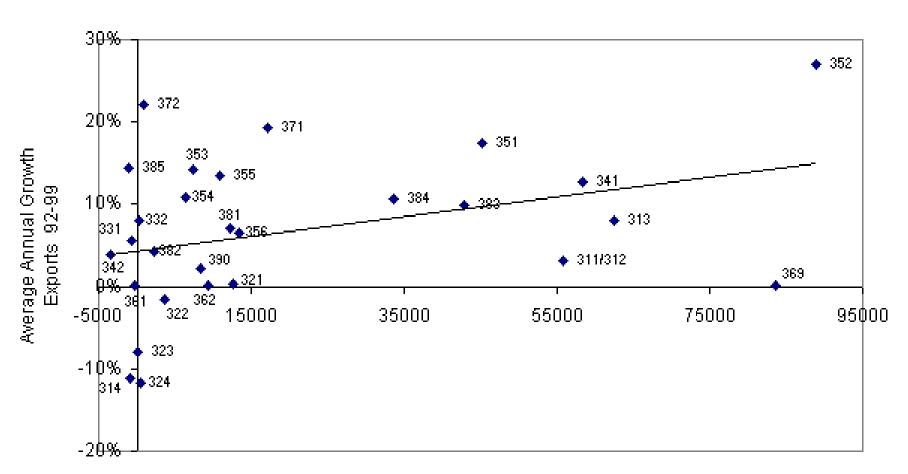
Manufacturing FDI: to Colombia, mostly Services FDI: leads in Peru, Colombia and Bolivia Primary FDI: leads in Ecuador and Venezuela



Sources: Andean Community; Banco Central de Bolivia; Banco de la Republica - Colombia; Banco Central de Ecuador; Comisión Nacional de Inversiones y Tecnologías Extranjeras - Peru; Superintendencia de Inversiones Extranjeras - Venezuela

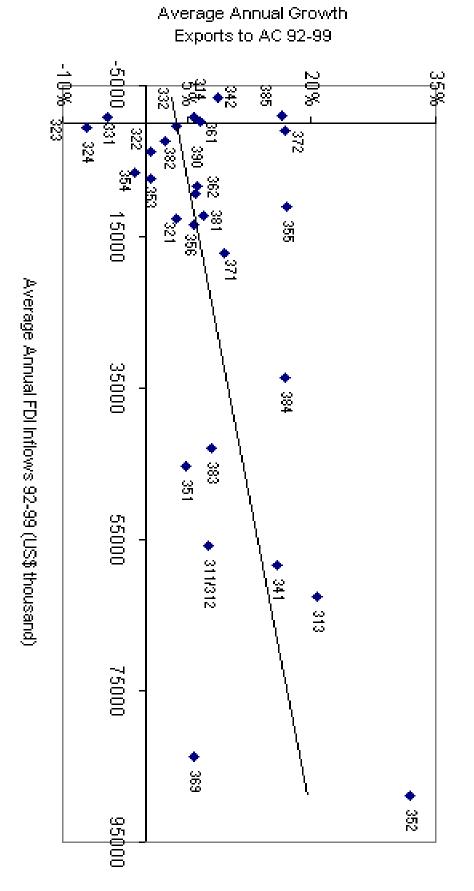
Some significant correlations between FDI and trade flows in the AC...

Colombia: FDI Inflows and Exports by Industry 1992 - 1999 ISIC rev. 2

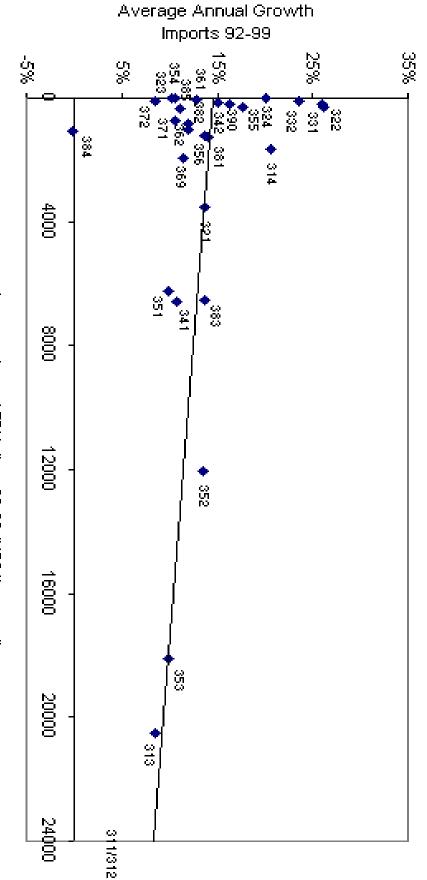


Average Annual FDI Inflow 92-99 (US\$ thousand)

Colombia: FDI Inflows and Exports to Andean Community by industry 1992 - 1999 ISIC rev. 2



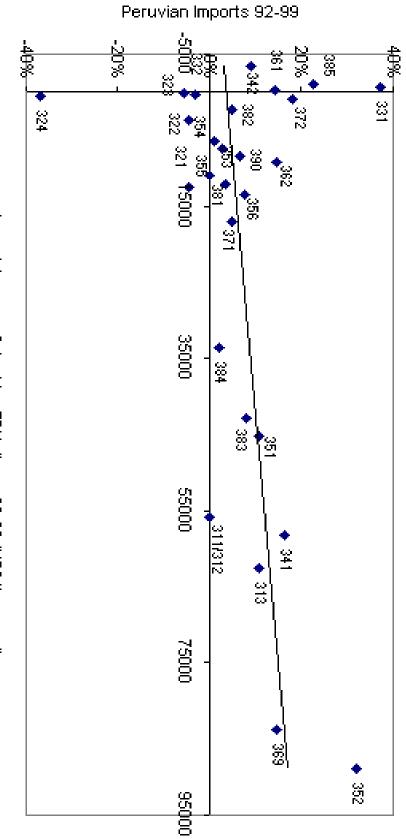
Perú: FDI Inflows and Imports by Industry 1992 - 1999 ISIC rev. 2



Average Annual FDI Inflow 92-99 (US\$ thousand)

Banco de la República -Colombia

Colombian FDI Inflows and Peruvian Imports from Colombia by Industry 1992 - 1999 ISIC rev. 2

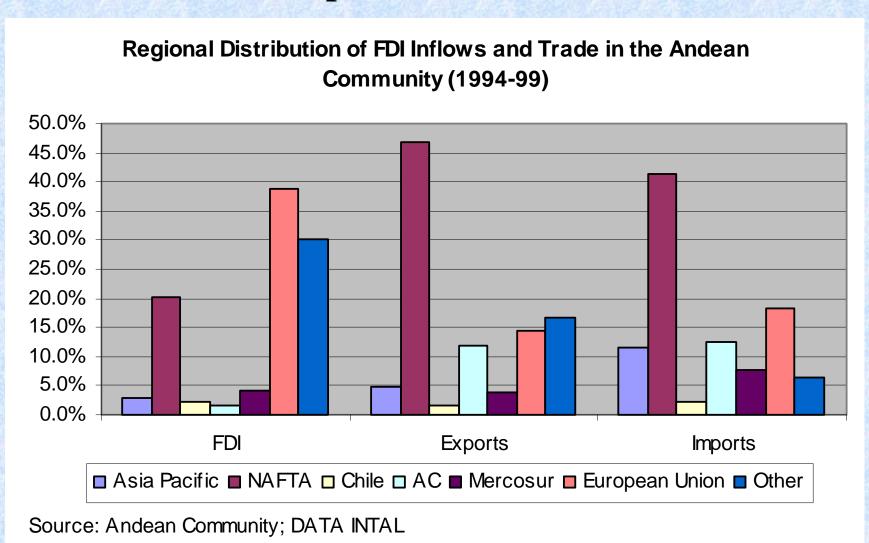


Average Annual Growth

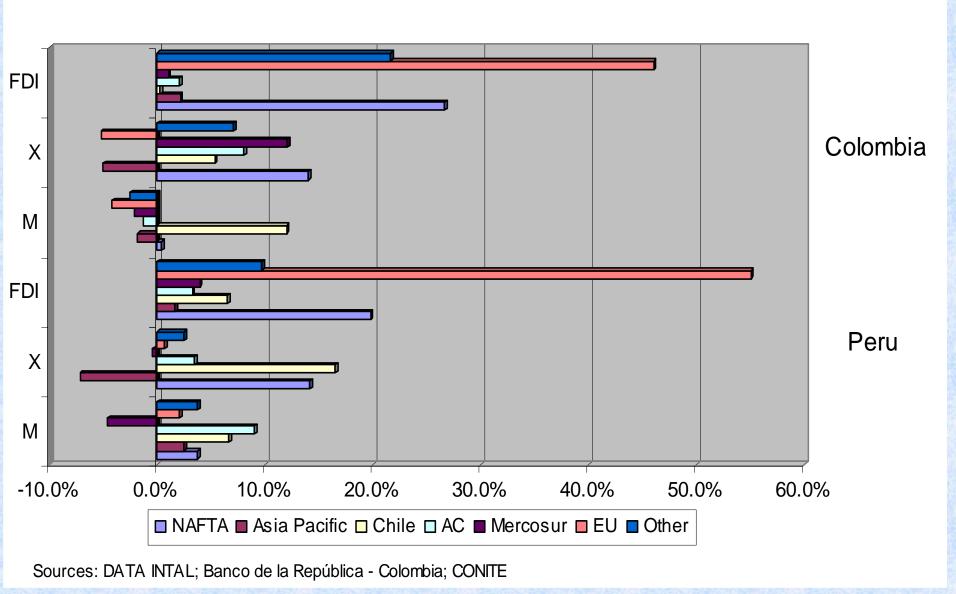
Annual Average Colombian FDI Inflows 92-99 (US\$ thousand)

Sources: United Nations, DATA INTAL, Comision Nacional de Inversiones y Tecnologías Extranjeras

EU is the main investor in the AC, whereas NAFTA is the first AC's trade partner...



Colombia and Peru: Regional Distribution of FDI Inflows to Tradable Sectors and Average Trade Growth by Partner (1994-99)

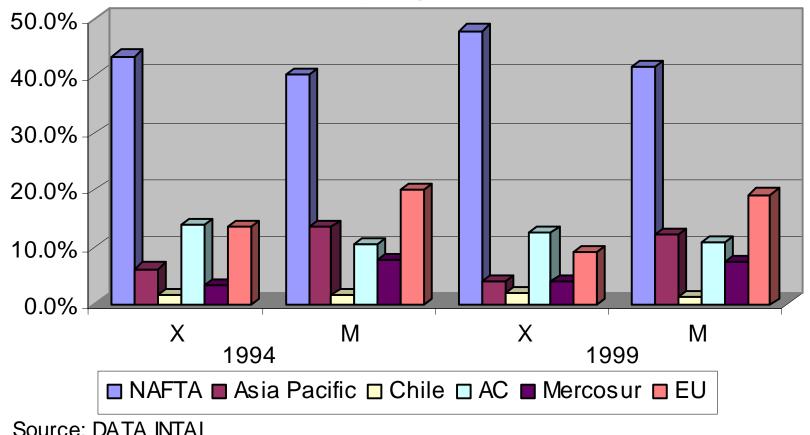


Trade of manufactures:

Main AC's exports: to NAFTA, AC

Main AC's imports: from NAFTA, EU and Asia Pacific

Andean Community Trade: Distribution of Manufactures by Region



In the US market: Colombia, Peru and Chile have gained ground. Ecuador lost it. What if a Chile - USA FTA?

Andean Community and Chile: Exports to USA
US\$ million and shares in percentages

	AC+Chila	Dalivia	Colombia	Ecuador	Воил	Monozuolo	Chila
	AC+Chile	Bolivia	Colombia	Ecuador	Peru	Venezuela	Chile
Total Year 1999	21694	2.1%	25.8%	6.9%	6.7%	44.9%	13.6%
Difference between 1999 and 1994							
Agriculture, hunting, forestry and fishing	763	-0.3%	-4.7%	-3.6%	1.5%	0.5%	6.6%
Mining, quarrying and petroleum	1415	0.2%	14.5%	-2.2%	0.7%	-13.0%	-0.1%
Food, beverages and tobacco	150	-0.5%	1.5%	-11.0%	-5.4%	2.4%	13.1%
Textiles, clothing and leather	47	0.5%	-19.5%	-1.0%	24.6%	0.1%	-4.7%
Wood and wood productos	317	-8.2%	1.3%	-0.1%	3.6%	-1.3%	4.6%
Publishing, printing and media	-29	-18.3%	4.4%	0.8%	4.6%	9.0%	-0.6%
Chemical, rubber, plastic products and fuels	2794	0.0%	17.0%	-2.3%	0.5%	-15.6%	0.4%
Non-metallic mineral products	55	0.0%	-21.5%	0.9%	2.6%	16.4%	1.6%
Basic metal products	564	-3.1%	-1.4%	0.0%	16.2%	-8.5%	-3.1%
Fabricated metal products, machinery	415	29.2%	-11.2%	0.8%	-0.1%	-14.5%	-4.2%
Other manufacturing	-47	-18.4%	2.7%	2.6%	10.6%	3.8%	-1.2%
Total	6445	0.3%	6.9%	-3.0%	2.1%	-8.2%	1.9%

In the Korean market: Ecuador main winner Chile main loser

What if a Chile - Korea FTA?

Andean Community and Chile: Exports to Korea

US\$ million and shares in percentages

	AC+Chile	Bolivia	Colombia	Ecuador	Peru	Venezuela	Chile
Total year 1999	822	0.0%	4.8%	25.9%	4.7%	1.3%	63.3%
Difference between 1999 and 1994							
Agriculture, hunting, forestry and fishing	-16	-0.1%	-4.1%	-0.9%	-0.6%	0.2%	5.4%
Mining, quarrying and petroleum	83	-2.7%	0.0%	89.4%	-5.2%	-3.6%	-77.9%
Food, beverages and tobacco	-4	0.0%	-8.5%	-0.9%	-0.2%	0.4%	9.2%
Wood and wood productos	-59	0.0%	0.0%	-0.2%	0.0%	0.0%	0.2%
Publishing, printing and media	1	0.0%	0.0%	0.2%	0.0%	0.0%	-0.2%
Chemical, rubber, plastic products and fuel	139	0.0%	1.6%	87.0%	-2.0%	-1.4%	-85.2%
Basic metal products	47	0.0%	4.3%	0.0%	-4.2%	-3.3%	3.2%
Fabricated metal products, machinery	1	0.0%	4.3%	0.2%	-10.4%	-2.1%	8.0%
Other manufacturing	-5	-6.8%	17.2%	7.3%	11.6%	1.1%	-30.3%
Total	186	-0.1%	0.3%	25.2%	-2.8%	-2.0%	-20.6%

In the New Zealander market: Ecuador main winner What if a Chile - NZ FTA?

Andean Community and Chile: Exports to New Zealand

US\$ million and shares in percentages

	AC+Chile	Bolivia	Colombia	Ecuador	Peru	Venezuela	Chile
Total year 1999	37	0.4%	7.4%	50.5%	11.0%	4.5%	26.2%
Difference between 1999 and 1994							
Agriculture, hunting, forestry and fishing	11	0.0%	-0.8%	17.5%	-0.5%	0.8%	-17.1%
Food, beverages and tobacco	3	0.0%	-2.5%	5.7%	-9.5%	0.9%	5.4%
Chemical, rubber, plastic products and fuels	1	1.4%	-26.8%	-0.3%	4.9%	30.3%	-9.5%
Basic metal products	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other goods	2	2.7%	-4.9%	-1.5%	-2.5%	-9.0%	15.2%
Total	18	0.4%	-3.7%	11.6%	-2.9%	1.7%	-7.2%

In the Andean market: Colombia and Chile are the winners What after Chile's bilateral FTAs?

Andean Community and Chile: Exports to the Andean Zone
US\$ million and shares in percentages

	AC+Chile	Bolivia	Colombia	Ecuador	Peru	Venezuela	Chile
Total year 1999	4909	5.9%	33.0%	9.0%	7.0%	24.7%	20.4%
Difference between 1999 and 1994	AC+Chile	Bolivia	Colombia	Ecuador	Peru	Venezuela	Chile
Agriculture, hunting, forestry and fishing	127	-5.9%	6.3%	2.8%	-2.2%	-8.3%	7.3%
Mining, quarrying and petroleum	116	0.0%	8.9%	-14.0%	-1.3%	5.7%	0.8%
Food, beverages and tobacco	190	0.9%	5.4%	0.8%	-2.3%	-10.8%	6.0%
Textiles, clothing and leather	-55	3.6%	-7.6%	4.5%	3.7%	-5.4%	1.2%
Wood and wood productos	35	1.2%	-19.1%	-2.5%	4.5%	-3.2%	19.2%
Publishing, printing and media	91	-0.1%	8.7%	-0.5%	2.3%	-7.2%	-3.2%
Chemical, rubber, plastic products and fuel	581	-0.3%	1.9%	-1.4%	-0.1%	2.3%	-2.4%
Non-metallic mineral products	-25	1.3%	14.2%	-4.8%	2.5%	-32.6%	19.4%
Basic metal products	-67	-0.2%	7.5%	-0.6%	2.9%	-14.1%	4.4%
Fabricated metal products, machinery	-132	11.5%	17.4%	-4.1%	1.5%	-35.1%	8.8%
Other manufacturing	27	0.5%	-5.6%	-0.4%	4.5%	-1.0%	2.0%
Total	889	1.5%	5.7%	-0.3%	-0.2%	-10.6%	3.8%

In NAFTA, AC's countries face strong competition from other LAIA countries. Some Chilean products (food and minerals) are well-positioned...

ANDEAN COMMUNITY: Main Products Exported to NAFTA

Average for the 1994-99 period

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	Product (SHC rev. 3)	JUS\$ Million	90		main AC Exporters mair			vain ∟AlA Export	iain LAIA Exporters (excluding AC)*			
	Total	18,577	100.0%	VEN	57.5% COL	22.9%	MEX	473.2% BRA	58.0% CHI	16.0%		
33	Petroleum, petroleum products and related	12,131	65.3%	VEN	77.0% COL	15.8%	MEX	58.4% ARG	4.0% BRA	1.6%		
07	Coffee, tea, cocoa, spices and related	839	4.5%	COL	65.8% ECU	17.2%	MEX	71.4% BRA	67.3% ARG	4.3%		
68	Non-ferrous metals	735	4.0%	PER	46.2% VEN	41.1%	MEX	127.4% CHI	94.8% BRA	33.3%		
03	Fish, crustaceans, mollucs, preparations	669	3.6%	ECU	75.1% COL	8.9%	MEX	88.7% CHI	45.8% ARG	12.5%		
05	Vegetables and fruit	557	3.0%	ECU	52.3% COL	34.2%	MEX	450.4% CHI	125.7% BRA	68.6%		
29	Crude aninal and vegetable materials	505	2.7%	COL	81.7% ECU	16.0%	MEX	19.7% CHI	8.8% BRA	3.2%		
84	Articles of apparel and clothing accesories	482	2.6%	COL	55.9% PER	39.2%	MEX	941.7% BRA	18.7% ARG	8.3%		
67	Iron and Steel	314	1.7%	VEN	93.7% COL	5.7%	BRA	419.7% MEX	386.4% ARG	43.7%		
89	Miscellaneous manfactured articles	257	1.4%	PER	37.0% BOL	33.2%	MEX	1200.5% BRA	48.7% ARG	25.6%		
28	Metalliferous ores and metal scrap	225	1.2%	PER	56.4% VEN	33.9%	MEX	176.8% BRA	126.2% CHI	61.3%		

Main AC Evanders

Main LAIA Evacetoro /ovaludina AC*

LICE Milliad

^{*} The percentages show the proportion between average exports to NAFTA by LAIA countries and Andean Community

If Chile signs trade agreements with East Asian counterparts, Peruvian exports would be the worst hit...

ANDEAN COMMUNITY: Main Products Exported to East Asia Average for the 1994-99 period

	Product (SITC rev. 3)	JS\$ millior	%		Main AC Exporters	3	Main L	AIA Expoters (exclu	ding AC)*
	Total	2,191	100.0%	PER	49.2% COL	20.4%	BRA	295.0% CHI	211.4%
68	Non-ferrous metals	486	22.2%	PER	60.1% VEN	39.8%	СНІ	313.1% BRA	132.9%
08	Feeding stuff for animals	389	17.8%	PER	97.9% ECU	2.0%	BRA	94.8% CHI	84.8%
28	Metalliferous ores and metal scrap	298	13.6%	PER	83.8% VEN	10.7%	CHI	378.6% BRA	319.2%
07	Coffee, tea, cocoa, spices and related	298	13.6%	COL	84.0% PER	10.4%	BRA	99.0% MEX	5.8%
33	Petroleum, petroleum products and related	163	7.4%	ECU	82.0% VEN	12.9%	MEX	242.1% ARG	30.5%
03	Fish, crustaceans, mollucs, preparations	141	6.4%	ECU	61.9% PER	27.6%	CHI	391.9% ARG	215.3%
05	Vegetables and fruit	102	4.6%	ECU	92.2% PER	5.5%	СНІ	142.3% ARG	130.4%
66	Non-metallic mineral manufactures	94	4.3%	COL	99.0% PER	0.6%	BRA	72.8% MEX	6.6%
67	Iron and steel	49	2.2%	VEN	65.8% COL	34.2%	BRA	2273.6% MEX	789.5%
26	Textile fibres	24	1.1%	PER	83.3% ECU	9.3%	URU	426.9% ARG	408.1%

Š		Product (SITC rev. 3)		Main East Asian In	nporters from A	С
ě		Total	JAP	47.4% CHN	18.4% KOR	12.6%
	68	Non-ferrous metals	JAP	64.3% TWN	17.8% KOR	6.9%
	08	Feeding stuff for animals	CHN	57.6% TWN	11.8% JAP	11.6%
	28	Metalliferous ores and metal scrap	JAP	42.2% CHN	27.3% MAL	15.2%
	07	Coffee, tea, cocoa, spices and related	JAP	88.5% KOR	9.8% TWN	0.5%
	33	Petroleum, petroleum products and related	KOR	84.1% JAP	6.7% SIN	5.7%
	03	Fish, crustaceans, mollucs, preparations	JAP	54.9% TWN	20.8% CHN	14.1%
	05	Vegetables and fruit	JAP	51.2% CHN	44.3% KOR	2.9%
	66	Non-metallic mineral manufactures	JAP	66.1% HKG	26.4% TWN	4.3%
	67	Iron and steel	KOR	43.5% JAP	29.5% TWN	15.9%
	26	Textile fibres	CHN	34.5% JAP	27.2% KOR	17.0%

^{*} The percentages show the proportion between average exports to East Asia by LAIA countries and Andean Community Source: DATA INTAL