

# India's Trade Potential and Prospects with Common Market of South America (Mercosur)

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## Abstract

The present study attempted to analyze India's trade potential and prospects with Mercosur and it employed revealed comparative advantage (RCA) and trade intensity index (TII) for the purpose. In South America, India signed its first preferential trade agreement (PTA) with Common Market of South America (Mercosur) bloc in 2004 that came into effect in 2009. India's trade with this bloc continued to increase. Results of comparative advantage showed that India has trade specialization in the export of agricultural products like silk, cotton, carpets, bird skin, feathers, artificial flowers, human hair, glass and glassware, pharmaceutical products, essential oils, perfumes, cosmetics, etc. to Mercosur and imports products such as coffee, sugars, leather products, tea-mate and spices, silk, wool, animal hair, horsehair yarn, pearls, precious stones, metals, etc. from it. This comparative advantage helps not only to diversify product baskets, but also leads to an increase in volume of trade. The study found that intensity of total trade of India with Mercosur, exports from India to it, and imports from it is greater than 1, which showed that India has sustainable and strong trade potential and prospects with this bloc.

**Keywords :** intensity, potential, product, specialization, sustainable trade

**JEL Classification :** F1, F0, F15

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There has been a surge of regional trade agreements (RTAs) in the past decade due to slow progress of the Doha Round of GATT/WTO. Since 1990s, India also jumped on this bandwagon and negotiated and signed numerous bilateral as well as RTAs. One of the RTAs, with the greatest potential in increasing/improving trade and investment, is the initiative between India-Common Market of South America (Mercosur). Mercosur, a trading bloc in Latin America, was formed among four sovereign countries : Argentina, Brazil, Paraguay, and Uruguay under the Treaty of Asuncion in 1991. It was set up with an objective to facilitate the free movement of goods, services, capital, and people among member countries. Venezuela became its fifth member in 2012. It now operates as Custom Union (CU) and has ambition to become a common market. A framework agreement was signed between India and Mercosur on June 17, 2003 in Asuncion, Paraguay. This marked the first step between the parties towards the creation of an FTA.

Thereafter, a preferential trade agreement (PTA) between India and Mercosur was signed in New Delhi on January 25, 2004 with an objective to strengthen and expand bilateral trade relations between them by lowering tariff on a wide range of goods. This agreement came into effect from June 1, 2009. It consists of five annexures. The first two are the offer list of product categories subject to tariff concessions of Mercosur and India. India agreed to offer preferential access to 450 products, while Mercosur offered it for 452 products. The major products covered in India concessional list are meat and meat products, organic & inorganic chemicals, dyes & pigments, raw hides and skins, leather articles, wool, cotton yarn, glass and glassware, articles of iron and steel,

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machinery items, electrical machinery and equipment, optical, photographic & cinematographic apparatus. In reciprocal, Mercosur offered list includes air conditioning system, refrigerator, silk, glass etc.

India wants to expand PTA, that is, free trade agreement (FTA) with Mercosur but progress remains slow. A comprehensive FTA will enable more cost efficient shipping services too, besides enhancing bilateral investments. In this respect, India presented a list for expansion of PTA with 3,690 products. Mercosur presented 1,287 lines but never came up with a supplementary list and negotiations stagnated. On March 6, 2016, India informed the WTO in a meeting of committee on trade and development that we are in the process of expanding our trade agreement with Mercosur to cover a sizeable portion of bilateral trade, that is, by increasing the number of tariff lines. Several WTO members raised questions about this agreement between India and Mercosur (questions mean how mutual recognition of Mercosur for food safety and animal and plant health is implemented).

Since inception, India's exports to Mercosur increased to US\$ 81,94,930 thousand (2014) from US\$ 26,731.03

**Table 1. Share of Mercosur's Trade with India as a Proportion of Total Indian Trade with the World (US\$ Thousand)**

Year	Export from India to Mercosur	Import of India from Mercosur	Export to Mercosur as percentage of India's Export to the World	Import from Mercosur as percentage of India's Import from the World
1990	26,731.03	2,91,608	0.14	1.22
1991	44,803.61	2,36,166.3	0.25	1.21
1992	66,113.15	2,21,602.8	0.31	0.90
1993	1,18,457.3	1,74,781.3	0.53	0.75
1994	1,62,620.5	6,26,251.5	0.61	2.18
1995	1,60,112.5	4,00,527.6	0.50	1.09
1996	2,23,905.1	3,69,496.1	0.66	0.94
1997	2,99,394.9	3,37,421	0.86	0.81
1998	2,75,893.1	5,44,580.1	0.83	1.28
1999	2,55,842.3	6,86,877.1	0.69	1.37
2000	3,55,706.9	5,69,291.2	0.83	1.07
2001	4,13,064.3	7,23,927.2	0.94	1.42
2002	4,79,372.2	6,83,028.6	0.95	1.18
2003	5,16,783	884,158.1	0.87	1.22
2004	7,37,064.8	11,76,102	0.97	1.18
2005	13,69,195	15,48,771	1.36	1.09
2006	18,81,006	24,05,606	1.55	1.34
2007	23,99,244	21,51,740	1.64	0.98
2008	38,88,398	58,66,373	2.13	1.85
2009	23,10,969	53,40,472	1.30	2.00
2010	43,17,047	92,75,826	1.95	2.65
2011	62,94,791	1,09,13,123	2.08	2.36
2012	71,28,210	1,87,66,408	2.46	3.83
2013	72,73,393	1,99,55,656	2.16	4.28
2014	81,94,930	2,08,26,028	2.58	4.53

Source: World Integrated Trade Solution (WITS) (n.d.)

thousand in 1990 (Table 1). India's imports from Mercosur increased to US\$ 20,826,028 (2014) from US\$ 291,608 in 1990. India imported more from Mercosur than it exported to it. However, percentage wise, India exported 2% of its trade to Mercosur and imported 4.5% from it (Table 1). The percentage share of exports as well as imports have increased.

## Objectives of the Study

- (1) To identify the comparative advantage in the exports and imports for commodities at 2-digit level in order to explore potential areas for further cooperation.
- (2) To calculate India's intensity of trade with Mercosur.

## Review of Literature

Balassa and Noland (1989) examined the changing pattern of trade specialization of Japan and the United States, and applied Balassa (1965) index of RCA and net export index (NEI). Both countries also increased their comparative advantage in high technology products over time. Devi (1989) made an attempt to calculate intra-regional trade potential, complementarity, trade specialization, growth rate, and changing pattern of trade among South Asian countries. The results showed that intraregional trade, both at aggregate and disaggregate level, dropped both in exports and imports. Bojnec (2001) analyzed the pattern and potential of regional and global agricultural trade flows, with special emphasis on EU-15, Asia, NAFTA, Africa, Caribbean, and Oceania, utilized intra-industry versus inter-industry trade with Grubel and Lloyd (1971, 1975), RCA, and international agricultural terms of trade.

Zhou, Wu, and Si (2006) investigated the major trends and changes in the bilateral agricultural trade between Australia and China at a disaggregate level and also calculated trade intensity, comparative advantage, and trade complimentary between them to address the likely prospects of trade. Trade between them has been increasing. It was stated that both will trade greater than the expected level. Basu and Datta (2007) analyzed trend in comparative advantage, similarity, and complementarity in trade and reasons behind the persistent bilateral trade deficit of Bangladesh with India since its formation in 1971, applied RCA, cosine measure, and GL indices for intra-industry trade. Both have trade specialization in unskilled labour intensive products with  $RCA > 1$ . Makochekanwa (2007) studied the pattern of trade specialization for Botswana that underwent a structural shift between 1999 and 2004 because of openness and competitiveness in the world. Khatibi (2008) presented Kazakhstan's competitiveness and compared the structure of trade specialization with respect to world export into European Union-27 (EU-27) and intra-export between the EU-27 member countries at 3-digit Standard International Trade Classification (SITC) over the period from 1999 - 2006.

Akhtar, Zakir, and Ghani (2009) analyzed the trade pattern, trend, performance, and trade specialization in the footwear industry of Pakistan and compared it with China and India using Balassa index of RCA, both at 2-digit and 4-digit level of industrial classification for the time period from 1996 - 2006. In the rapidly changing global environment, there is an urgent need to strengthen the competitiveness of the footwear industry. Chanda, Chaitanya, and Singhal (2010) analyzed the viability of a free trade agreement in goods between India and China using RCA and TII. Le (2010) aimed to provide an empirical analysis of Vietnam's comparative advantage and its shifts over time since the economic reforms began in 1986 that led to increase in export from less than US \$ 80 million in 1986 to almost US \$ 63 billion in 2008. IMF utilized its comparative advantage on the basis of factor endowment. Raghuramapatrani (2011) analyzed potential and prospects of trade within SAARC countries by employing RCA and TII. Political conflicts between India and Pakistan should be settled as soon as possible because these two countries have great influence on other countries.

Bano, Takahashi, and Scrimgeour (2013) were the first to use trade intensity index and trade potential method to analyze trade prospects and potential between New Zealand and ASEAN countries for the period from 1980 - 2010. The results of TII show that there is considerable variation in export and import intensity index between them, and it is expected to increase over time. These studies analyzed a country's trade prospects with various countries individually and regional trading blocs by taking one commodity, utilizing gravity model, augmented gravity model, Aquino index, Grubel - Lloyed index, revealed comparative advantage, trade intensity index, and trade complementarity index. However, no study has been carried out to calculate India's trade potential and prospects with Mercosur. In this context, the present study attempts to make an effort in this direction.

## Research Methodology and Data Sources

**(1) Methodology :** The present study calculates India's trade prospects with Mercosur and the analytical tools used for the study are as follows :

**(i) Revealed Comparative Advantage (RCA) :** It tells about the relative trade performance of individual countries, in particular commodities. It shows how competitive a product is in country's exports as compared to the products' share in world trade. A product with high *RCA* is competitive and can be exported to countries with low *RCA*. Balassa's (1965) formulation is expressed as:

$$RCA = \frac{X_{ij}/\sum X_{ij}}{\sum X_{ij}/\sum \sum X_{ij}}$$

The revealed comparative advantage for exports (*RCAX*) is calculated as below :

$$RCAX = \frac{(x_{ij}^k/X_{ij})}{(x_j^k/X_j)}$$

where,

$x_{ij}^k$  = export of product *k* by country *i* (India) to another region/country *j*,

$X_{ij}$  = total exports of country *i* (India) to the reference group *j*,

$x_j^k$  = exports of product *k* by the reference group *j*,

$X_j$  = total exports of reference group *j*.

The revealed comparative advantage for imports (*RCAM*) is calculated as below :

$$RCAM = \frac{(m_{ij}^k/M_{ij})}{(m_j^k/M_j)}$$

where,

$m_{ij}^k$  = import of product *k* by country *i* (India) from another region/country *j*,

$M_{ij}$  = total imports of country *i* (India) from the reference group *j*,

$m_j^k$  = imports of product *k* by the reference group *j*,

$M_j$  = total imports of reference group *j*.

**(ii) Trade Intensity Index (TII) :** Trade potential of any country can primarily be measured with the help of Koijima's (1964) trade intensity index (*TII*) with its partners. It tries to establish the relative trade performance of a trading partner in relation to a country's trade with the rest of the world. When the trade intensity is high between two countries, it shows that both have more potential of trade with each other. It is defined as the share of one

country's exports (trade) going to a partner country divided by the share of world trade going to the partner. It is calculated as :

$$T_{ij} = \frac{[(X_{ij} + M_{ij})/(X_i + M_i)]}{[(X_{wj} + M_{wj}) - (X_{ij} + M_{ij})/(X_w + M_w) - (X_i + M_i)]}$$

where,

$T_{ij}$  = total trade intensity index of country  $i$  with country  $j$ ,

$X_{ij}$  = exports of country  $i$  to country  $j$ ,

$M_{ij}$  = imports of country  $i$  from country  $j$ ,

$X_i$  = total exports of country  $i$ ,

$M_i$  = total imports of country  $i$ ,

$X_{wj}$  = total world exports to country  $j$ ,

$M_{wj}$  = total world imports from country  $j$ ,

$X_w$  = total world exports;  $M_w$  = total world imports.

The calculation for the trade intensity index for exports is as follows:

$$X_{ij}^a = \frac{[X_{ij}/X_i]}{[(M_j - M_{ji})/(M_w - M_i)]}$$

where,

$X_{ij}^a$  = export trade intensity index of country  $i$  with country  $j$ ,

$X_{ij}$  = exports of country  $i$  to country  $j$ ,

$X_i$  = total exports of country  $i$ ,

$M_j$  = total imports of country  $j$ ,

$M_{ji}$  = imports of country  $j$  from country  $i$ ,

$M_w$  = total world imports,

$M_i$  = total imports of country  $i$ .

The calculation for the trade intensity index for imports is as follows :

$$M_{ij}^a = \frac{[M_{ij}/M_i]}{[(X_j - X_{ji})/(X_w - X_i)]}$$

where,

$M_{ij}^a$  = import trade intensity index of country  $i$  with country  $j$ ,

$M_{ij}$  = imports of country  $i$  from country  $j$ ,

$M_i$  = total imports of country  $i$ ,

$X_j$  = total exports of country  $j$ ,

$X_{ji}$  = exports of country  $j$  to country  $i$ ,

$X_w$  = total world exports,

$X_i$  = total exports of country  $i$ .

**(2) Sources of Data :** The proposed study extensively depends on secondary data (from 1990 to 2014) that was collected from 2-digit Standard International Trade Classification (SITC) revision-2 from World Integrated Trade Solution (World Bank) and International Trade Centre (ITC), Geneva.

## Analysis and Results

**(1) Results of Revealed Comparative Advantage for Exports (RCAX) :** The Table 2 shows the products which have comparative advantage ( $RCA > 1$ ) in India's export to Mercosur bloc. Value greater than 1 for *RCAX* indicates that India should export a particular product to Mercosur bloc and vice-versa.

The Table 2 shows that India has no trade specialization in the export of products with codes 5, 6, 7, 9, 25, 28, 59, 61, 66, 69, 71, 72, 74, 87, and 89 (see Appendix 1) to Mercosur since 2001 (see Appendix 2). The Table 2 is formed on the basis of Appendix 2.

**Table 2. Products with Value of RCA Greater than 1 for Exports to Mercosur by India**

Serial No	Product Code [*]	RCA Characteristics [**]
1	5	Except 2011, India has no trade specialization in this product since 2001.
2	6	There is no comparative advantage in the export of this product to Mercosur since 2001 (except 2011 & 2012).
3	7	India has no <i>RCA</i> in the product since 2002.
4	9	The product has no <i>RCA</i> since 2002.
5	13	India has sustainable and very strong <i>RCA</i> since 2001. The trend of <i>RCA</i> is on decreasing mode.
6	14	There is no <i>RCA</i> in this product since 2005.
7	25	India has no trade specialization in this product since 2001 except for 2009 to 2012.
8	27	The product has <i>RCA</i> since 2002.
9	28	India has no trade comparative in the export of this product to Mercosur since 2002.
10	29	India has sustainable and strong <i>RCA</i> in this product since 2001. The trend of <i>RCA</i> is on decreasing mode.
11	30	There is sustainable and strong <i>RCA</i> in this product since 2001.
12	32	India has comparative advantage in the export of this product to Mercosur since 2001.
13	33	The product has sustainable <i>RCA</i> since 2001.
14	34	India has sustainable trade specialization in this product since 2007.
15	38	India has trade specialization in the export of this product to Mercosur since 2001.
16	39	This product has <i>RCA</i> since 2001.
17	40	India has sustainable <i>RCA</i> in this product since 2001.
18	42	Except for 2002, there is comparative advantage in this product since 2001.
19	46	India has sustainable and very strong <i>RCA</i> in this product.
20	49	The product has <i>RCA</i> since 2010.
21	50	India has sustainable and strong <i>RCA</i> since 2001. The <i>RCA</i> has a decreasing trend.
22	52	India has <i>RCA</i> in this product since 2001.
23	53	India has trade specialization in this product since 2001.
24	54	India has strong <i>RCA</i> in this product.
25	55	<i>RCA</i> is strong in this product since 2001.
26	57	<i>RCA</i> in this product has continued to increase since 2001.
27	58	India has sustainable and average comparative advantage in this product since 2001.



28	59	Except 2014, India has no trade specialization in this product since 2001.
29	61	Except for 2003 and 2005, India has sustainable <i>RCA</i> in this product since 2001.
30	62	The product is having very strong <i>RCA</i> since 2001.
31	63	There is sustainable comparative advantage in this product.
32	65	Except 2001, 2003, 2006 to 2008, India has trade specialization in this product since 2001. The <i>RCA</i> has an increasing trend.
33	66	India has no trade specialization in this product since 2002.
34	67	India has strong and sustainable comparative advantage in the export of this product to Mercosur. The <i>RCA</i> has an increasing trend.
35	69	There has been comparative advantage in this product since 2014.
36	70	India has sustainable and strong <i>RCA</i> in this product since 2001.
37	71	Except for 2009, India has no trade specialization in this product.
38	72	Except for 2009, 2010, and 2013, India has no comparative advantage in this product.
39	73	There was <i>RCA</i> in this product since 2001 and it was lost thereafter. India gained comparative advantage in 2008 and <i>RCA</i> continued to be greater than 1.
40	74	Except 2005 and 2010, India has no trade specialization in this product since 2001.
41	82	India has sustainable and strong <i>RCA</i> in this product since 2001.
42	84	India has trade specialization in this product since 2008.
43	85	India has trade specialization in this product since 2001.
44	86	There is comparative advantage in this product since 2014.
45	87	India has no trade specialization in this product since 2002.
46	89	Except for 2009 to 2010, the product has no <i>RCA</i> since 2001.
47	90	India has sustainable <i>RCA</i> in this product since 2001.
48	92	There was <i>RCA</i> in this product since 2001 but it continued till 2004. India again gained <i>RCA</i> in this product and finally lost.
49	95	India has sustainable <i>RCA</i> in this product since 2001.
50	96	The product has <i>RCA</i> since 2001.
51	97	India has comparative advantage in this product since 2001 but lost in 2013.

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\*Refer to Appendix 1. \*\* Refer to Appendix 2

The Appendix was received from employed methodology on data of India's export to Mercosur and the world and reciprocal. India has *RCA* in products with codes 13, 27, 29, 30, 32, 33, 38, 39, 40, 42, 46, 50, 52, 53, 54, 55, 57, 58, 62, 65, 67, 70, 82, 85, 90, 95, 96, and 97 since 2001 (see Appendix 2). The products with codes 37 and 49 started to develop *RCA* since 2007 and 2010, respectively.

**(2) Results of Revealed Comparative Advantage for Imports (*RCAM*) :** The Table 3 shows products which have comparative advantage ( $RCA > 1$ ) in India's imports from the Mercosur bloc.

The Table 3 is formed on the basis of Appendix 3, which was drawn from methodology employed on data of India's imports from Mercosur and the world and reciprocal. The Table 3 shows that India has no comparative advantage in the import of products with codes 4, 7, 13, 22, 37, 47, 53, 80, and 89 (see Appendix 1) from Mercosur (see Appendix 3). Products with codes 9, 15, 17, 26, 41, 43, 50, 51, 71, and 75 have trade specialization since 2001 (see Appendix 3). Hence, India has comparative advantage in the import of these products from Mercosur instead of producing them domestically.

**Table 3. Products with value of RCA Greater than 1 for Imports from Mercosur by India**

Serial No	Product Code [*]	RCA Characteristics [**]
1	4	Except for 2003, India has had no trade specialization in this product since 2001.
2	7	The product has no RCA since 2001.
3	9	India has trade specialization in this product since 2002 and continued to maintain it till 2007. Thereafter, India lost its specialization in this product.
4	13	India has no trade specialization in this product since 2001 except for 2009.
5	15	India has sustainable and very strong RCA in this product since 2001. The trend of RCA is on decreasing mode.
6	17	The product has sustainable and strong RCA since 2008.
7	22	Except for 2003 to 2005, 2008 to 2010, India has no comparative advantage in this product since 2001.
8	25	There was sustainable RCA in this product since 2001 but continued to maintain it till 2010. Thereafter, India lost its specialization in the import of this product from Mercosur.
9	26	India has sustainable and strong RCA in this product since 2001.
10	27	The product has trade specialization since 2006.
11	37	There is no trade specialization in this product since 2002.
12	41	India has sustainable and strong RCA in this product since 2001.
13	43	Except for 2008 and 2010, India has sustainable comparative advantage in this product since 2001.
14	44	Except 2005 to 2010, India has comparative advantage in the import of this product from Mercosur since 2001.
15	47	Except for 2004, 2005, 2009, and 2011, India has no RCA in the import of this product from Mercosur since 2002.
16	50	There is strong comparative advantage in this product since 2001.
17	51	India has RCA in this product since 2001. RCA has a decreasing trend.
18	52	The product has no comparative advantage since 2004.
19	53	Except for 2004, 2006, and 2007, there is no comparative advantage in this product since 2001.
20	71	Except 2013, India has trade specialization in this product since 2001.
21	72	There was comparative advantage in this product since 2001 and RCA remained greater than 1 till 2011. Thereafter, India lost RCA in this product.
22	75	India has RCA in this product since 2001. The trend of RCA is on decreasing mode but greater than 1.
23	80	India had RCA in this product since 2001 but lost thereafter.
24	89	Except 2005, India has had no comparative advantage in this product with Mercosur since 2001.

Note : \*Refer to Appendix 1. \*\*Refer to Appendix 3

**(3) Results of Intensity of Trade Index/Trade Intensity Index (TII):** Intensity of trade index is used to find relative intensity of trade of India with Mercosur for total trade, exports from India to Mercosur, and for imports by India from Mercosur. A unitary value, that is,  $TII = 1$  shows that there is no difference in importance to a nation in supplying imports to nation  $j$ . Trade intensity index with a value greater than 1 ( $TII > 1$ ) indicates higher bilateral trade than can be expected on the basis of their share in world trade. When the value of intensity is high between two countries, it shows that both have more potential of trade with each other. Due to unavailability of data, India's intensity of trade with Mercosur was calculated from 2001. As shown in the Table 4, India has sustainable and strong trade prospects with Mercosur.

## Discussion and Conclusion

The present study calculates India's trade prospects with Mercosur under regionalism. India's trade with Mercosur has continued to increase at an increasing rate. Percentage share of exports to Mercosur and imports from the bloc increased. Therefore, it becomes relevant to analyze India's trade prospects with Mercosur. From



**Table 4. Intensity of Trade Index of India with Mercosur**

Year	Intensity of Trade Index for Total Trade between India and Mercosur	Intensity of Trade Index for Exports by India to Mercosur	Intensity of Trade Index for Imports by India from Mercosur
2001	0.755	0.602	0.884
2002	0.802	0.871	0.764
2003	0.825	0.887	0.782
2004	0.756	0.848	0.690
2005	0.756	1.086	0.577
2006	0.872	1.130	0.716
2007	0.789	1.034	0.626
2008	1.00	1.154	0.897
2009	0.914	0.731	1.010
2010	1.19	1.013	1.280
2011	1.04	0.997	1.047
2012	1.55	1.146	1.737
2013	1.63	1.007	2.03
2014	1.66	1.181	1.943

Source: Raw data collected from World Integrated Trade Solution and ITC.

the above discussion, it can be concluded that India has trade sustainability and strong potential & prospects with Mercosur because of having trade specialization in many products and high rate of intensity.

India has sustainable comparative advantage ( $RCA > 1$ ) in the export of products : silk, cotton, carpets, bird skin, feathers, artificial flowers, human hair, glass and glassware, pharmaceutical products, essential oils, perfumes, cosmetics, etc. to Mercosur and import of products : coffee, sugars, leather products, tea-mate, and spices, silk, wool, animal hair, horsehair yarn, pearls, precious stones, and metals, etc. from it. This comparative advantage helps not only to diversify product baskets, but also leads to increase in volume of trade. Intensity of trade of India with Mercosur for total exports from India to it and for imports from it is greater than 1. Hence, it can be concluded that India has sustainable and strong potential and prospects with this bloc, and that Mercosur is India's major trading bloc.

## Policy Implications

India has to focus on such products in which it has comparative advantage and export such products to Mercosur. This will help both in increasing volumes and achieving diversification of trade within Mercosur. This will enlarge its market size and competitiveness. India has to maintain its specialization in products which have  $RCA > 1$  and also has to develop comparative advantage in other products. Off late, some of the goods from secondary sector have been added in exports from India to Mercosur.

## Limitations of the Study and Scope for Further Research

I analyzed India's trade prospects with Mercosur from 1990 - 2014 using 2-digit level data mentioned in Standard International Trade Classification (SITC) revision - 2. Future studies can consider 4 digit trade data to expand the scope of research in this area. I also calculated India's trade prospects with Mecosur combined bloc. Future studies can be conducted by taking individual country/member of Mecosur to calculate India's trade prospects.

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### Appendix 1. Product Codes - 2 Digit SITC, Revision 2

Product Code	Product Description	Product Code	Product Description
1	Live animals	50	Silk
2	Meat and edible meat offal	51	Wool, animal hair, horsehair yarn and fabric thereof
3	Fish, crustaceans, molluscs, aquatic invertebrates nes	52	Cotton
4	Dairy products, eggs, honey, edible animal product nes	53	Vegetable textile fibres nes, paper yarn, woven fabric
5	Products of animal origin	54	Manmade filaments
6	Live trees, plants, bulbs, roots, cut flowers etc	55	Manmade staple fibres
7	Edible vegetables and certain roots and tubers	56	Wadding, felt, nonwovens, yarn, twine, cordage, etc
8	Edible fruit, nuts, peel of citrus fruit, melons	57	Carpets and other textile floor coverings
9	Coffee, tea mate and spices	58	Special woven or tufted fabric, lace, tapestry etc
10	Cereals	59	Impregnated, coated or laminated textile fabric
11	Milling products, malt, starches, inulin, wheat gluten	60	Knitted or crocheted fabric
12	Oil seed, oleagic fruit, grain, seed, fruit, etc, nes	61	Articles of apparel, accessories, knit or crochet
13	Lac, gums, resins, vegetable saps and extracts nes	62	Articles of apparel, accessories, not knit or crochet
14	Vegetable plaiting materials, vegetable products nes	63	Other made textiles articles, sets, worn clothing etc
15	Animal, vegetable fats and oils, cleavage products, etc	64	Footwear, gaiters and the like, parts thereof
16	Meat, fish and seafood food preparations nes	65	Headgear and parts thereof
17	Sugars and sugar confectionery	66	Umbrellas, walking-sticks, seat-sticks, whips, etc
18	Cocoa and cocoa preparations	67	Bird skin, feathers, artificial flowers, human hair
19	Cereal, flour, starch, milk preparations and products	68	Stone, plaster, cement, asbestos, mica, etc articles
20	Vegetable, fruit, nut, etc food preparations	69	Ceramic products
21	Miscellaneous edible preparations	70	Glass and glassware
22	Beverages, spirits and vinegar	71	Pearls, precious stones, metals, coins, etc
23	Residues, wastes of food industry, animal fodder	72	Iron and steel
24	Tobacco and manufactured tobacco substitutes	73	Articles of iron or steel
25	Salt, sulphur, earth, stone, plaster, lime and cement	74	Copper and articles thereof
26	Ores, slag and ash	75	Nickel and articles thereof
27	Mineral fuels, oils, distillation products, etc	76	Aluminum and articles thereof
28	Inorganic chemicals, precious metal compound, isotopes	78	Lead and articles thereof
29	Organic chemicals	79	Zinc and articles thereof
30	Pharmaceutical products	80	Tin and articles thereof
31	Fertilizers	81	Other base metals, cermet, articles thereof
32	Tanning, dyeing extracts, tannins, derivs, pigments etc	82	Tools, implements, cutlery, etc of base metal
33	Essential oils, perfumes, cosmetics, toiletries	83	Miscellaneous articles of base metal
34	Soaps, lubricants, waxes, candles, modeling pastes	84	Machinery, nuclear reactors, boilers, etc
35	Albuminoids, modified starches, glues, enzymes	85	Electrical, electronic equipment
36	Explosives, pyrotechnics, matches, pyrophorics, etc	86	Railway, tramway locomotives, rolling stock, equipment
37	Photographic or cinematographic goods	87	Vehicles other than railway, tramway
38	Miscellaneous chemical products	88	Aircraft, spacecraft and parts thereof
39	Plastic and articles thereof	89	Ships, boats and other floating structures
40	Rubber and articles thereof	90	Optical, photo, technical, medical, etc. apparatus

41	Raw hides and skins (other than furskins) and leather	91	Clock and watches and parts thereof
42	Articles of leather, animal, gut, harness, travel goods	92	Musical instruments, parts and accessories
43	Furskins and artificial fur, manufactures thereof	93	Arms and ammunition, parts and accessories thereof
44	Wood and articles of wood, wood charcoal	94	Furniture, lighting, signs, prefabricated buildings
45	Cork and articles of cork	95	Toys, games, sports requisites
46	Manufactures of plaiting material, basketwork etc	96	Miscellaneous manufactured articles
47	Pulp of wood, fibrous cellulosic material, waste etc	97	Works of art, collectors pieces and antiques
48	Paper and paperboard, articles of pulp, paper and board	99	Commodities not elsewhere specified
49	Printed books, newspapers, pictures etc		

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Data Source: International Trade Centre (ITC). (n.d. a. )

Product Code	Mercosur	Mercosur	Mercosur	Mercosur	Mercosur	Mercosur	Mercosur	Mercosur	Mercosur	Mercosur	Mercosur	Mercosur	Mercosur	Mercosur	Mercosur	Mercosur	Mercosur	Mercosur
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0.0014	0.0021	0.0017	0.0008	0.0046	0.0042	0	0.0030	0	0.00003	0	0	0.0006	0				
3	0.4912	0.1672	0.1510	0.0081	0.0281	0.0129	0.0102	0.0471	0.0133	0.0086	0.0021	0.0275	0.0147	0.0100				
4	0.1336	0.0074	0	0	0.0012	0	0	0.00004	0	0	0	0.0001	0	0				
5	0	0.0309	0.1158	0.2187	0.1529	0.0290	0.15241	0.0068	0.0242	0.1988	1.8364	0.1699	0.0272	0.0889				
6	0.2418	0.7142	0.8864	0.9696	0.4496	0.4319	0.27362	0.68	0.634	0.6516	1.2797	1.0186	0.5541	0.3502				
7	1.1074	0.9215	0.7064	0.7165	0.7788	0.5418	0.4787	0.2848	0.358	0.4027	0.5088	0.4284	0.7084	0.52				
8	0.2120	0.0227	0.0453	0.0720	0.0306	0.0288	0.0041	0.0148	0.0436	0.0154	0.0103	0.0175	0.0102	0.0173				
9	1.0197	0.3499	0.1359	0.2245	0.0912	0.1247	0.1867	0.2398	0.336	0.1678	0.1643	0.1789	0.2674	0.1223				
10	0.0016	0.0191	0.0004	0.0004	0.0021	0.0012	0.0057	0.0009	0.000531	0.0005	0.0004	0.0010	0.0012	0.0011				
11	0	0	0.0304	0.0098	0.0015	0.0184	0.0165	0.0052	0.000890	0.0016	0.0033	0.0038	0.007	0.0048				
12	0.0679	0.0392	0.0568	0.0506	0.0307	0.0243	0.0304	0.0199	0.0385	0.0177	0.0163	0.0172	0.0177	0.0136				
13	20.0013	14.8778	21.639	18.8739	15.5526	13.9698	10.5801	9.2463	8.95	9.5470	13.6835	14.0088	17.6167	9.8320				
14	1.6922	2.2333	6.9727	1.2423	0.7665	0.4253	0.3850	0.4972	0.0269	0.0108	0.0252	0.0614	0.3	0.0392				
15	0.1798	0.0248	0.0044	0.0600	0.0096	0.0061	0.0825	0.0318	0.164	0.1033	0.0806	0.1576	0.1115	0.0401				
16	0	0.0004	0.0003	0	0.0976	0.0694	0.0549	0.0141	0.00673	0	0	0	0	0.00003				
17	0	0	0.0129	0	0.0002	0.0006	0.0010	0.0013	0.0004	0.00002	0.0954	0.0001	0.0002	0.0001				
18	0	0	0	0	0	0	0	0	0	0.0004	0	0.0067	0	0				
19	0.0410	0.0321	0	0.0167	0.0298	0.0061	0	0	0	0	0.0103	0.0220	0.0252	0.0027				
20	0.0030	0.0071	0.0103	0.0054	0.0037	0.0006	0.0011	0.0014	0.0029	0.0023	0.0050	0.0071	0.0106	0.0160				
21	0.0023	0.0163	0.0544	0.0489	0.0039	0.0013	0.0037	0.0012	0.0038	0.0165	0.0075	0.0070	0.0086	0.0058				
22	0	0	0	0	0	0	0	0	0.0087	0.0049	0.0033	0.0024	0.0013	0				
23	0.1947	0.006121	0.0012	0.0007	0.0020	0.0145	0.0009	0.0019	0.001	0.0041	0.001	0.0023	0.0041	0.0030				
24	0.0438	0.03011	0.5126	0.1729	0.0938	0.0950	0.1741	0.4660	0									



32	9.5775	11.8709	11.7369	12.4331	9.5923	8.5198	8.1031	9.4917	16.2	10.9972	9.4575	10.1251	13.2433	13.226
33	5.2299	4.4964	4.8957	4.7256	2.6732	2.5784	1.7602	1.2730	1.91	1.0301	1.4417	2.1430	1.6011	0.7925
34	0.0768	0.4711	0.1474	0.3470	0.2293	0.4143	0.4069	1.1171	1.69	1.8276	2.2984	1.9432	2.2797	1.7020
35	0.0230	0.0060	0.0582	0.0408	0.0239	0.0128	0.0155	0.1219	0.0781	0.0863	0.0626	0.0352	0.0368	0.0386
36	0	0	0.0106	1.1952	0	0.0581	0	0.1693	0.420	0.3942	0	0.3226	0.0438	0
37	0.4034	0.0502	0.0113	0.1384	0.0761	0.0837	0.0277	0.0148	0.0652	0.0523	0.0295	0.0024	0.0390	0
38	9.0632	14.2315	13.9408	10.4746	10.7040	8.0279	8.1821	5.6658	7.41	4.8220	3.8232	5.8899	8.1078	5.4282
39	1.3389	1.0972	1.0715	2.2221	3.4304	1.2673	1.3614	1.7048	1.46	1.3907	2.2708	1.5772	1.9515	1.1974
40	3.7850	1.9385	1.8176	2.2094	2.0652	1.5558	0.7537	1.4099	1.55	1.3998	2.0278	1.8213	2.7666	2.2669
41	0.7989	0.3707	0.1911	0.0774	0.0610	0.0905	0.0406	0.1341	0.0170	0.0228	0.03336	0.0129	0.0057	0.0154
42	3.1974	0.8657	1.2161	1.44943	1.3224	1.7687	1.7175	3.0767	2.83	2.7747	6.2385	6.8308	7.6527	5.1969
43	0	0	0	0	0	0	0	0	0	0	0.0006	0	0	0.0065
44	0.0220	0.0100	0.0018	0.0133	0.0164	0.0155	0.0100	0.0193	0.0315	0.0291	0.0456	0.0527	0.0377	0.0248
45	0	0	0	0	0.0719	0	0	0	0	0	0.0622	0	0	0
46	11.1905	36.9230	3.8894	1.0304	3.4085	2.9887	27.7297	0.8163	7.39	6.0619	0.4121	3.5985	0.5935	0.3310
47	0	0	0	0	0	0.00005	0.0019	0.0003	0.0002	0	0	0	0	0
48	0.0213	0.0285	0.0215	0.08518	0.0820	0.0481	0.0527	0.0225	0.0822	0.2807	0.0721	0.0432	0.0367	0.0674
49	0.0573	0.0265	0.3240	0.2040	0.2725	0.2841	0.3703	0.2639	0.517	1.1732	1.3205	1.2464	2.7016	2.0946
50	14.6964	5.4048	5.8040	8.1020	8.0263	7.6424	5.4293	10.4905	8.49	4.8440	4.4315	3.4862	2.6806	1.4580
51	0.0142	0.0040	0.0411	0.0339	0.1270	0.0259	0.0297	0.0407	0.00579	0.0087	0.0151	0.0016	0.0035	0.0354
52	3.4317	2.7025	1.3753	2.6321	3.6911	7.5961	6.6346	14.5100	10.5	13.3290	4.8249	2.9948	4.2056	2.0176
53	34.5679	17.16	14.7915	11.9391	12.457	6.6409	5.1704	5.5539	11.0	6.8135	9.8648	5.3909	3.2621	3.9835
54	9.6710	24.3360	26.6762	48.1242	30.2664	46.4043	59.5306	61.8966	73.2	108.6834	75.2579	96.6994	119.6475	67.9805
55	18.9814	8.4877	7.6369	18.3432	15.4986	25.4167	36.3225	37.7234	83.1	46.6943	75.9779	36.3366	24.7664	25.8639
56	0.5407	0.5477	0.7396	0.3518	0.5191	0.34619	0.1532	0.1738	0.430	0.3248	0.3144	0.2871	0.2916	0.2206
57	31.2134	18.8612	13.2032	20.9517	26.5781	39.1428	41.3658	46.6781	57.6	38.4911	57.0682	48.6217	60.7919	58.2593
58	5.6803	2.7903	2.7605	1.9037	2.1690	1.4657	0.5300	0.6091	1.41	0.8846	1.3783	1.5890	2.2387	2.0740
59	0.0713	0.1020	0.1887	0.1739	0.2196	0.1615	0.1055	0.0198	0.118	0.1134	0.3512	0.2769	0.2623	1.9102
60	0.4721	0	0.0150	0	0.4867	0.0490	0.1538	0.0387	0.308	0.4413	0.4546	0.2513	0.0626	0.2
61	2.4768	2.2952	0.9601	1.7123	0.8174	1.0980	1.7151	2.6269	12.2	6.5307	9.0317	12.7543	16.7267	13.5558
62	35.3735	19.7720	14.4290	17.7109	23.9222	27.7537	13.3392	21.0934	42.9	33.5604	51.4274	53.4843	74.3276	64.1651
63	6.1937	2.7067	1.784	3.0989	3.0480	4.9158	3.5235	4.8378	5.80	4.5433	11.1508	14.0250	10.0434	6.0026
64	0.0672	0.0116	0.0187	0.0158	0.0912	0.0302	0.0474	0.0264	0.206	0.1238	0.3224	0.7244	0.5810	0.2755
65	0.8310	7.6229	0	2.8316	1.9222	0.0835	0.3385	0.0115	15.6	25.4687	27.5449	47.8191	32.2346	27.0443

66	1.7352	0	0	3.3030	0	0.3772	0.1423	0	0.203	1.2522	0.2284	0.6588	0.5092	0.5930
67	647.8805	320.4819	556.6751	1222.689	2708.833	1968.254	2241.141	1556.471	437	3774.39	1485.039	6097.826	2860.432	3197.943
68	0.5300	0.1624	0.1720	0.1300	0.1260	0.1508	0.1545	0.2008	0.337	0.3572	0.2855	0.2244	0.3115	0.1849
69	0.1271	0.0232	0.1715	0.0745	0.0310	0.0197	0.0924	0.4274	0.517	0.4013	0.7080	0.7844	0.9862	4.3032
70	2.6382	4.1133	2.9140	3.3694	2.5874	4.0168	2.3454	4.0291	5.33	3.4621	5.3927	7.0698	6.9592	4.5171
71	0.4137	0.4827	0.2690	0.1386	0.1321	0.1502	0.1528	0.1248	1.16	0.0662	0.0688	0.0695	0.0440	0.0365
72	0.7004	0.2493	0.1838	0.2794	0.3258	0.6422	0.4841	0.5090	1.34	1.0999	0.4744	0.5155	1.0130	0.7481
73	1.1947	1.3296	0.8055	0.8116	0.6454	0.8911	0.7237	1.0828	1.17	1.7571	1.5801	2.0818	2.1669	1.3738
74	0.7530	0.4479	0.5740	0.5657	1.4022	0.5262	0.3600	0.6837	0.573	1.1267	0.5972	0.5671	0.4409	0.4446
75	0.0275	0.0363	0.0383	0.0719	0.0556	0.1035	0.1244	0.3024	0.247	0.2181	0.0553	0.1756	0.1706	0.2040
76	0.0671	0.0179	0.0049	0.0392	0.0267	0.0528	0.0091	0.0325	0.106	0.1655	0.4000	0.3979	1.1503	0.8693
78	0	0	0	0.2113	0.0090	0	0.0915	0.0204	0.306	0.0011	0	0.0012	0	0
79	0	0	0	0	0	0.1891	0.2701	0.4098	0.0756	1.0810	0.8215	1.6262	0	0.2445
80	0	0	0	0	0.0037	0	0	0.0049	0.00730	0	0.0006	0.0004	0	0.0007
81	0.4921	0	0.1124	0.0627	0.2135	0.3425	0.4016	0.3734	1.10	0.6297	0.4960	0.2334	0.2236	0.1195
82	6.8785	3.7385	3.4300	3.9449	2.7431	2.6023	1.7224	2.5241	2.60	2.2710	2.7516	2.4433	2.4944	1.9056
83	0.4874	0.8167	0.4404	0.6411	0.6374	0.5561	0.4568	0.4641	0.362	0.2613	0.2587	0.2716	0.4917	0.3335
84	0.6669	0.6975	0.6224	0.6947	0.7064	0.6091	0.8366	1.0158	1.23	1.5629	1.3713	1.1694	1.1380	0.8825
85	1.3543	0.6327	0.7129	0.7851	0.9415	0.5574	1.3900	2.5735	2.98	1.6689	2.5106	2.8894	3.6765	1.7420
86	0.6056	0.1012	0.1581	0.3677	0.7353	0.5118	0.0616	0.2368	0.285	0.0105	0.0513	0.23	0.7396	1.5696
87	1.0306	0.4579	0.4038	0.3533	0.4344	0.4212	0.3987	0.4732	0.490	0.7064	0.7013	0.7517	0.9994	0.9930
88	0.0304	0	0	0.0069	0	0	0.0006	0	0.00005	0.0070	0.0183	0.0160	0.0023	0.0008
89	0.0707	0.2582	0.0344	0.0053	0.0021	0.0579	0.0002	0.00005	15.1	3.5805	0.0002	0.9834	0.1755	0
90	1.1227	0.9821	2.4720	2.6599	2.8366	2.1674	1.7959	1.7221	2.41	2.8503	2.8119	2.2646	3.2551	2.9695
91	0.9185	0.1947	0.2335	0.0404	0.1373	0.1212	1.5333	0.1605	0.190	0.7	1	0.5098	0.3671	0.2814
92	4.4266	2.1621	0.3081	1.3825	0.4936	0.5032	0.2783	0.8853	4.40	0.8066	1.4365	1.3259	0.5544	0.3079
93	0	0	0	0.1971	0	0	0.0068	0.1601	0.211	0.0543	0.0371	0.0693	0.0335	0.0429
94	0.0330	0.0281	0.0243	0.0718	0.0848	0.1734	0.1317	0.2531	0.441	0.3186	0.4382	0.5679	1.0425	0.6751
95	3.8348	0.5614	1.1882	0.9003	1.2654	1.2509	0.5496	1.32	0.839	1.8971	1.8613	1.8	4.0502	2.8031
96	2.1949	1.2345	2.2190	4.0404	3.2405	2.2890	2.2320	2.4534	2.07	2.1425	3.5057	1.5191	1.9925	2.0046
97	4.6284	0	25.4438	20.2760	36.9943	18.8932	6.0294	4.5053	4.14	4.5109	2.8888	2.8181	0.2294	0.0619
99	0.9816	0.7009	0.2922	0.2401	0.0371	0.0704	0.7061	0.2060	0.190	0.1675	0.0676	2.1889	0.0216	0.1032

Data Source: International Trade Centre (ITC). (n.d. b.).

[illegible]

32	0.3022	0.4860	0.3795	0.254	0.3176	0.2157	0.2709	0.1457	0.1326	0.1017	0.122	0.0673	0.136	0.138
33	0.1796	0.2518	0.4706	0.3979	0.2458	0.1959	0.2986	0.1553	0.1137	0.1864	0.162	0.132	0.0969	0.0657
34	0.1376	0.0691	0.0472	0.0516	0.0616	0.0972	0.1322	0.0910	0.1424	0.1318	0.0929	0.0684	0.0456	0.0649
35	0.0216	0.0531	0.0136	0.0306	0.0685	0.0418	0.0805	0.1287	0.0925	0.057	0.0319	0.0100	0.0305	0.0127
36	0	0	0	0.9236	1.1120	0.0022	0	0.0093	0.0994	0	0.0044	0.0884	0.0002	0
37	1.36	0.3848	0.2742	0.0452	0.0675	0.0477	0.0623	0.1946	0.3265	0.3759	0.174	0.0087	0.0038	0
38	0.08	0.1462	0.0433	0.0381	0.0417	0.0490	0.0854	0.0522	0.0928	0.0786	0.0436	0.0523	0.0712	0.0802
39	0.05	0.0815	0.1120	0.0834	0.2302	0.0614	0.0690	0.0799	0.2114	0.0643	0.0359	0.0249	0.0161	0.0232
40	0.18	0.5136	0.5932	0.6583	0.4601	0.6126	0.3768	0.1490	0.1870	0.0798	0.0825	0.0863	0.0394	0.0671
41	6.0	7.2580	9.7539	7.4402	10.3935	8.6056	8.5089	2.8850	6.6872	6.8529	5.65	3.59	6.27	6.79
42	0	0	0.0296	0	0.0502	0.0168	0.0269	0.0039	0.0023	0.0075	0.0170	0.0331	0.0047	0.0013
43	1.07	4.5459	6.0820	4.0671	6.2043	8.5781	1.3289	0.1857	2.8099	0.6767	1.67	1.91	2.17	1.51
44	1.07	1.5661	1.4979	1.4775	0.9176	0.4037	0.7457	0.5954	0.6553	0.8132	1.38	0.976	1.27	1.34
45	0	0	0	0	0	0	0	0.0098	0	0	0.0070	0	0.001	0
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	2.06	0.0168	0.1562	1.4207	1.2215	0.6262	0.3084	0.5407	1.0939	0.1021	1.14	0.104	0.234	0.109
48	0.02	0.0909	0.0477	0.0264	0.0146	0.0149	0.0405	0.0923	0.0636	0.0470	0.0603	0.0278	0.0162	0.0089
49	0.002	0.0007	0.0010	0.0006	0.0054	0.0053	0.0013	0.0020	0.0240	0.0106	0.0316	0.0039	0.0032	0.0006
50	26.40	21.2831	61.7348	21.4076	10.6242	14.6563	13.6097	2.5978	5.3281	0.1178	0.0298	0.186	0.112	0.406
51	10.33	16.776	14.8338	6.8180	11.3244	3.8783	15.7282	6.9822	5.7639	8.4250	5.27	4.46	5.64	6.00
52	16.69	10.090	0.2872	2.6935	0.3410	0.0069	0.0500	0.0854	0.0075	0.0132	0.0104	0.455	0.150	0.114
53	0	0.0763	0.07	1.67605	0.9310	1.3445	2.7213	0.6730	0.1317	0.2719	0.873	0.550	0.549	0.631
54	0.04	0.0816	0.1044	0.0887	0.2018	0.0346	0.0004	0.0303	0.0056	0.0025	0.0249	0.0084	0.0061	0.0045
55	0.15	0.3311	0.0342	0.0575	0.1841	0.0294	0.0356	0.0338	0.0225	0.0024	0.0044	0.0026	0.0017	0.0032
56	0.03	0.0478	0.0372	0.0322	0.0268	0.0773	0.0728	0.0245	0.0234	0.0256	0.0234	0.0019	0.0193	0.0127
57	0.03	0.0165	0	0	0	0	0	0.0031	0	0.0164	0.0138	0.0049	0.0016	0.0004
58	0	0	0	0	0.0159	0.0027	0.0021	0.0005	0.0005	0.0014	0.0142	0.0034	0.0003	0.0083
59	0.003	0.0266	0.0340	0.0302	0.0544	0.0506	0.0586	0.0456	0.0230	0.0365	0.0374	0.0126	0.0258	0.0101
60	0.001	0.0045	0	0.0039	0.0081	0	0.0013	0.0044	0	0.0006	0.009	0.0035	0.0033	0.0020
61	0	0.0004	0.0941	0.0106	0	0.0044	0.0010	0.0002	0.0010	0.0001	0.0017	0.0010	0.0001	0.00001
62	0	0	0	0.0003	0.0008	0.0002	0.0002	0.0001	0.0011	0.0003	0.0032	0.0004	0.0002	0.00001
63	0.04	0	0.0070	0.0068	0.0003	0	0	0.0007	0	0.0066	0.0018	0.0013	0.0006	0
64	0.007	0.0927	0.1016	0.1505	0.0553	0.0783	0.0720	0.0278	0.0328	0.0457	0.0187	0.0173	0.0224	0.0408
65	0	0	0	0	0	0	0	0	0	0.0010	0.0002	0.0039	0.0003	0.0002

66	0	0	0	0	0.1810	0	0	0	0	0	0	0	0	0.0287	0.0060	0	0
67	0	0	0	0	0	0	0.0274	0	0.4318	0.5643	0.2641	0.2504	0.2207	0.195	0.111	0	0
68	0.28	0.1708	0.3225	0.4557	0.2783	0.4318	0.5643	0.2641	0.2504	0.2207	0.195	0.111	0	0.0006	0.0647	0.0559	0.0620
69	0.07	0.071	0.0892	0.2398	0.1740	0.087	0.0925	0.0285	0.0108	0.0369	0.0346	0.0049	0.0041	0.0046	0.0049	0.0041	0.0046
70	0.30	0.4216	0.2147	0.2163	0.2506	0.1158	0.0866	0.0701	0.0599	0.0405	0.0620	0.0189	0.0070	0.0022	0.0189	0.0070	0.0022
71	1.92	5.7495	8.2711	9.5317	4.9767	3.9238	4.5875	1.5556	1.2142	0.7911	1.51	1.12	0.479	7.00	1.12	0.479	7.00
72	1.43	1.5157	1.0672	0.8924	1.5258	3.4914	2.3018	0.7411	2.8349	1.1813	1.71	0.937	0.548	0.767	0.937	0.548	0.767
73	0.82	0.45	0.53	0.83	0.59	0.52	0.41	0.15	0.11	0.07	0.03	0.0184	0.0323	0.0382	0.0184	0.0323	0.0382
74	0.09	0.23	0.03	0.02	0.04	0.17	0.11	0.04	0.02	0.01	0.01	0.0133	0.0123	0.0121	0.0133	0.0123	0.0121
75	12.29	21.57	5.01	4.02	8.14	13.88	19.90	3.13	3.75	2.19	0.61	0.560	1.30	1.26	0.560	1.30	1.26
76	0.02	0.12	0.03	0.08	0.02	0.03	0.09	0.03	0.15	0.05	0.04	0.0813	0.0452	0.0360	0.0813	0.0452	0.0360
78	0	0.3	0.62	0.19	0.002	0	0.06	0.29	0.17	0.06	0.37	0.254	0.364	0.0428	0.254	0.364	0.0428
79	0.18	0.2	0.02	0.048	0.23	3.37	0.04	0.05	1.6	0.14	0.12	0.0190	0.0699	0.187	0.0190	0.0699	0.187
80	5.29	8.96	0	0	0.39	0	0	0.01	0	0.009	0.03	0	0	0	0	0	0
81	0	0	0	0.16	0.01	0.01	0.001	0.07	0.026	0.008	0.06	0.0099	0.0319	0.0258	0.0099	0.0319	0.0258
82	0.06	0.07	0.07	0.03	0.16	0.04	0.07	0.03	0.03	0.04	0.02	0.0225	0.0161	0.0301	0.0225	0.0161	0.0301
83	0.22	0.26	0.44	0.31	0.12	0.19	0.29	0.09	0.18	0.12	0.10	0.0303	0.0347	0.0706	0.0303	0.0347	0.0706
84	0.25	0.21	0.25	0.30	0.3	0.30	0.3	0.15	0.1	0.1	0.08	0.0346	0.0269	0.0244	0.0346	0.0269	0.0244
85	0.04	0.08	0.06	0.04	0.07	0.06	0.08	0.03	0.03	0.02	0.03	0.0144	0.0118	0.0182	0.0144	0.0118	0.0182
86	0	0	0	0	0	0.03	1.53	1.02	0	0	0.007	0.0193	0.0201	0.0159	0.0193	0.0201	0.0159
87	0.32	0.47	0.25	0.14	0.07	0.03	0.08	0.07	0.05	0.02	0.02	0.0160	0.0135	0.0140	0.0160	0.0135	0.0140
88	0.03	0	0	0	0.002	0.79	0.0007	0	0.001	0.03	0.04	0.0114	0.253	0.177	0.0114	0.253	0.177
89	0	0.12	0.05	0	1.42	0.49	0	0.0005	0.20	0.28	0.0478	0.352	0.700	0.158	0.352	0.700	0.158
90	0.21	0.23	0.14	0.13	0.14	0.10	0.18	0.08	0.09	0.05	0.0704	0.0312	0.0342	0.0366	0.0704	0.0312	0.0342
91	0.002	0.01	0.006	0.0006	0	0	0	0	0	0.008	0.0067	0.0096	0.0001	0	0.0067	0.0096	0.0001
92	0	0.01	0.02	0	0.01	0	0	0	0	0	0	0.0029	0	0	0.0029	0	0
93	0.006	0	0.02	0.02	0.05	0.006	0.02	0.14	0.003	0.002	0.0062	0.0049	0.00587	0.0047	0.0049	0.00587	0.0047
94	0.005	0.01	0.10	0.27	0.25	0.11	0.05	0.01	0.005	0.006	0.0116	0.0037	0.00560	0.0101	0.0037	0.00560	0.0101
95	0	0.005	0	0.002	0.0002	0	0.003	0.0002	0.001	0.002	0.0041	0.0016	0.00014	0.0002	0.0016	0.00014	0.0002
96	0.001	0.64	0.01	0.01	0.03	0.02	0.01	0.01	0.008	0.001	0.0154	0.0046	0.0010	0.0008	0.0046	0.0010	0.0008
97	0	0	0	0	0	0.01	0.12	0	1.08	0	0.0054	0.0059	0	0.0142	0.0054	0.0059	0
99	30.53	3.73	0.70	0.85	4.73	0.36	3.32	1.8	3.29	3.78	0.330	0.0844	0.3390	0.889	0.330	0.0844	0.3390

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