

Japan-China Regional economic integration and Asian economic growth: Influence on Japanese economy

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In this paper, our purpose is to forecast the influence of Japan-China Free Trade Agreement on Japanese economy to describe macroeconomic figure and also industry specific figures. Our approach has some characteristics different from the previous researchers' approaches. Firstly, the approach in this paper is based on INFORUM approach which has the tools of Interindustry analysis to integrate econometric approach for constructing dynamic macroeconomic model. This type of INFORUM approach is different from vastly simplified CGE (Computational General Equilibrium) approach². Secondly, our policy simulation seems to be different from Jagdish Bhagwati's assertion³ on FTA approach not to liberalize markets regionally. Bhagwati has strongly inclined toward an assertion of policy alternative based on WTO framework for global liberalization. Thirdly, we attempted to link Japanese JIDEA model and Chinese MUDAN model directly, which are INFORUM type Input-Output based dynamic macroeconomic models.

Growth and International trade in Asia

*INFORUM partner can use the value of world trade estimated in BTM system⁴. **Figure 1** shows BTM forecasting of the world trade trend and its structure until 2010. In twenty five years from 1985 to 2010, the value of world trade will grow about four times. Japanese share in the world trade was 13 percentages in 1985. Added the exports from two countries, Japan and China, trade share of two countries in the world will be almost unchanged, in which the share of two countries will be 15.5 percentages in 2010.*

The trade share of NAFTA which consists of the United State, Canada and Mexico will be twenty percentages in 2010. The countries of NAFTA, the European countries and the rest of OECD countries will slightly decrease their trade share in the world to be from 66 percentages in 1985 to 58 percentages in

¹ The authors have constructed and operated JIDEA model jointly since 1993, supported by the Institute for International Trade and Investment (ITI). Hasegawa and Imagawa belong to Faculty of Economics, Chuo University. Sasai belongs to Kyoei University and Ono belongs to JETRO. Sasai and Ono also have worked for ITI. This paper was jointly prepared in JIDEA working group for the memorial symposium of Institute of Economic Research, Chuo University. The authors cordially appreciate Wang Yinchu who contributed to constructing the research framework, and Douglas Nyhus who prepared the data of Japanese export expansion to China due to tariff removal. Also, we express our gratitude to Wang and Nyhus in making the modification of JIDEA model to version 5.1. Wang is one of the persons who are operating MUDAN model in China. Nyhus is currently responsible for operating BTM system in INFORUM project.

² Alan V. Deardorff and Robert M. Stern, *Computational Analysis of Global Trading Arrangements*, the University of Michigan Press, 1990, and Masahiko Tutumi, "Issues of strengthening Japan-China-Korea trilateral economic relations," JCER Discussion paper, JCER, No. 60, 2000 (in Japanese). And, Masahiko Tutumi, "Economic effects of Japanese FTA", in (eds.) Shujiro Urata, *Japanese strategy toward FTA*, Nihon Keizai Shinbun Co., 2002. Also, Masahiko Tutumi, "Economic effects of Asian regional economic integration and Japanese alternatives", JCER Discussion Paper, No. 74, JCER, 2000.

³ Bhagwati's assertion on market liberalization are shown in the following papers; Jagdish Bhagwati and Arvind Panagariya, "Preferential Trading Areas and Multinationalism—Strangers, Friends, or Foes?" in Jagdish Bhagwati and Arvind Panagariya, (eds.), *The Economics of Preferential Trade Agreements*, the AEI Press, 1996. Jagdish Bhagwati, *Free Trade Today*, Princeton University Press, 2002.

⁴ Douglas Nyhus, *Data and Forecasting in BTM*, INFORUM, 2003.

2010. The trade share of ROW (the rest of the countries; the developing countries) will be unchanged. The increase of trade share will occur in Asian countries. In this sense, Asian countries have a dynamic pulling power in the world economy.

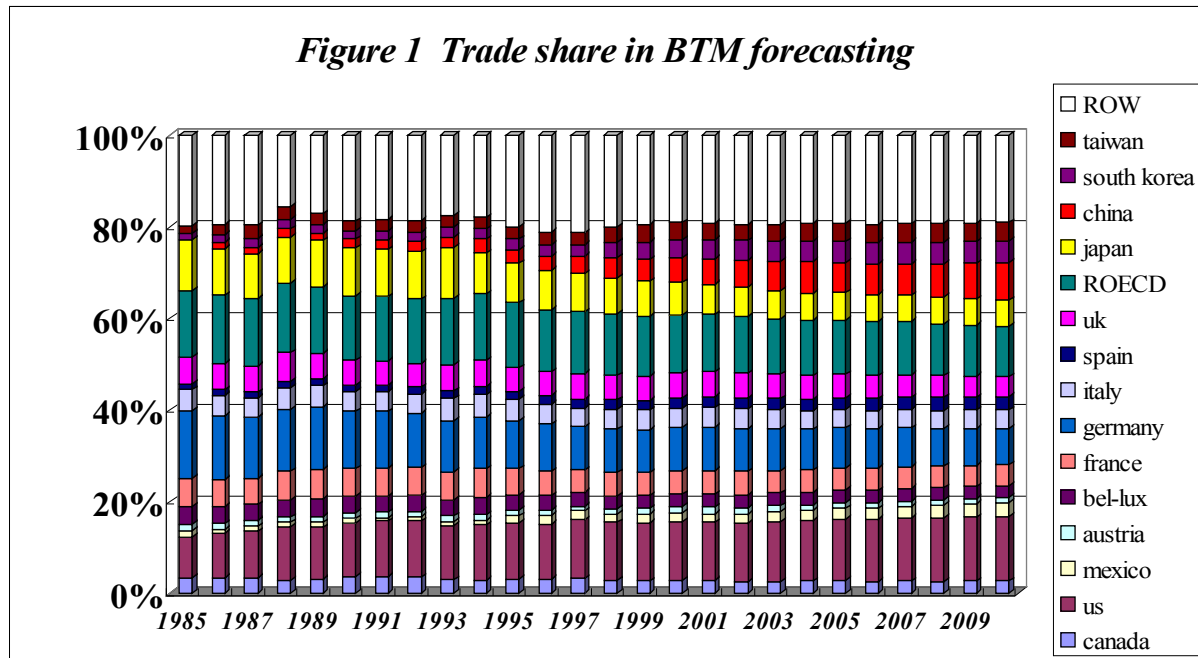


Table 1 GDP and trade developments in Asia

GDP and trade developments in Asia, 2002
(Annual percentage change)

	Asia					Japan					Developing Asia ^a				
	1990-00	1999	2000	2001	2002	1990-00	1999	2000	2001	2002	1990-00	1999	2000	2001	2002
GDP	3.3	2.5	4.2	1.5	1.5	1.5	0.2	2.8	0.4	-0.7	6.7	6.4	7.1	3.4	5.4
Merchandise															
Exports (value)	9	7	18	-9	8	5	8	14	-16	3	11	7	21	-7	10
Imports (value)	8	9	23	-7	6	5	11	22	-8	-3	10	9	25	-7	9
Exports (volume)	8	6	16	-4	11	3	2	9	-10	8	8	6	16	-4	11
Imports (volume)	8	10	17	-2	10	5	10	11	-1	2	8	10	16	-2	9
Commercial services															
Exports (value)	9	5	12	-1	7	5	-2	13	-7	2	11	7	13	2	8
Imports (value)	7	5	8	-2	3	3	3	1	-7	0	11	6	13	1	5

^a Defined as Asia excluding Japan, Australia and New Zealand.

Next to EU and NAFTA, etc., the conclusions of PTAs (Preferential Trade Agreements) have grown in Asia. According to the notification to WTO to the end of 2002, RTAs (Regional trade agreements) in the world have been notified which number might approach 300 by the end of 2005. Asian economies have experienced the highest economic growth and the highest growth of trade in the world. **Table 1⁵** shows that the external trade in Asia has grown much higher than their growth of GDP. Among Asian countries, Japan and China are becoming the competing economies to have the strong influence on the other economies. Under this economic performance of Japan and China, both countries have taken interest in the

⁵ World Trade Developments in 2002 & Prospects for 2003, WTO, 2003.

conclusion of PTA between both countries. In this analysis, PTA is defined in the meaning of tariff removal on the mutual trade.

Import tariff in Japan

In the CGE model mentioned above, Tutumi assumed the international price differences as the result caused totally by import tariff. It is relatively difficult to acquire the data of tariff rate in an operational style. Ad-valorem tariff rate and specific tariff are printed together in the Effective tariff rate 2003 for Japanese custom duties. **Table 2** illustrates some samples of Japanese tariff structure. The database includes various tariff rates such as base1, base2, wto1, wto2, preferential, and provisional tariff rates in terms of ad-valorem or specific tariff rate.⁶ The database of effective import tariff rate in Japan is mainly described in two kinds of tariff rates; ad-valorem tariff according to worth and specific tariff according to weight. The tariffs of wheat and rice polished are defined in specific tariff. The case of passenger's car is defined to impose in ad-valorem tariff, which is described as free of tariff. Specific tariff is expressed in Japanese Yen in the column of unit2 such as MT, KG, etc.

Table 2 Sample of Effective Tariff Rate in Japan

HS9	NACC S	Description	base1	base2	wto1	wto2	preferential	provisional	Unit 1	Unit2
100190019	6	wheat	(\65/kg)	(\65/kg)	0			0		MT(=ton)
100630090	1	rice polished (other)	(\40/kg)	(\402/kg)	*(\341/kg)			\49/kg		MT
610311010	1	suits for man	16.80%	0.168	11.50%	10.90%	×0		NO	KG
870323000		Passengers' car (1,500cm ³ ~3,000cm ³)	0	0	0					NO

The simulation of this paper is an application of JIDEA model, version 5.1 which is currently operated jointly by ITI and Chuo JIDEA working group.⁷ Japanese industries in current JIDEA model are classified into 100 sectors, of which the tradable sector consists of 63 sectors from the 1st to 64th sector, where the 3rd sector of agriculture service do not have foreign trade. Such trade data was introduced from MOF's trade statistics.⁸ Although Non-tradable sector from 65th to 100th sector has also the data of foreign exchange in Input-Output table, we could use such a data as a service trade in the Japan-China FTA simulation.

The import ad-valorem tariff rate used in JIDEA 5.1 was re-classified in 100 sectors from the original database of import tariff rate on import from China for 5798 commodities in 9 digit code. In order to make the ad-valorem tariff rate, the commodity sectors in trade statistics were arranged to be classified into the sectors used in tariff rate database. **Table 3** shows the result of Ad-valorem tariff rate for JIDEA 100 sectors calculated in our procedure. Tens of thousands of items in tariff table were aggregated in

⁶ JTASS (ed.), Zeirom 2003, Japan Tariff Association, 2003. (2003.CD-ROM version for the integrated database of Effective tariff rate 2003 and the related statistics)

⁷ JIDEA model has been constructed in "G" program which was developed by Clopper Almon. G and the related programs are explained in Clopper Almon, Craft of Economic Modelling, IERF, Inc., 1999. Japanese edition includes some applications into Japanese model and explanation of BTM system. JIDEA model is described in Yasuhiko Sasai et al., The model of Japan Interindustry Dynamic Econometric Analysis, ITI, 1996 and 2003.

⁸ Ministry of Finance, Trade Statistics, (customs clearance base), 2002.

accordance with the code of trade statistics at the first step. In the aggregated table, still more than five thousand items, specific tariff were transformed into Ad-valorem tariff rate. The table of Ad-valorem tariff rate in Table 2 shows the calculated tariff rate which is the divided value of aggregated tariff revenue by the aggregated import value in each 100 sectors. We can identify 15 tariff-imposing sectors in JIDEA tradable 64 sectors in the above table of tariff on Chinese products. The imports from China in the rest of the sectors are the sectors with duty-free tariff.

The industries which have the high ad-valorem tariff rate on the products originating from China are Fabricated textile products of 19.04 percentage, and Agriculture for crops of 3.42 percentage. Totally to evaluate the import tariff on Chinese product which is the total tariff revenue on products originating from China divided the total import value from China, this simple average tariff rate was 0.44 percentage in 2003.

Three regions of FTA; Japan, China, and the rest of the world in trade data preparation

This paper simulates the influence of FTA between Japan and China to forecast the macro and micro variables in JIDEA model until 2010. In this analysis, JA denotes Japan, CN for China, and RW means the rest of the world. Basic equation of the country's export is expressed by the following form;

$$JAexpRW_r = f(relpri, fdmrw, timet, dum85y, dum90y)$$

The trade change due to tariff removal is estimated by relative price change between the prices of foreign products and the domestic products. In this sense, we elaborated that key equations are specified and estimated to work price sensible.

The partners of FTA have the following export equations.

$$JAexpCN = f(relpri;.....) = f(JApimCN / pdd_{JA};.....)$$

$$JAexpRW = f(relpri;.....) = f(JApimRW / pdd_{JA};.....)$$

$$CNexpJA = f(relpri;.....) = f(CNpimJA / pdd_{CN};.....)$$

$$CNexpRW = f(relpri;.....) = f(CNpimRW / pdd_{CN};.....)$$

Main concern in this paper is to estimate the trade change for the partner countries, Japan and China after the import tariff removal in Free Trade Agreement. FTA in this paper means the removal of import tariff. Simulations were originally designed by link of each county's Input-Output analysis based dynamic macro econometric model which are called JIDEA for Japanese model and MUDAN for Chinese model⁹.

The static effects of FTA (Free Trade Agreement) consist of two parts in trade changes, that is, the trade diversion and the trade creation. Analytical concept for the trade change as a result of FTA between both countries is illustrated in **Figure 2**. We designed three kinds of forecasting until 2010 in JIDEA model, version 5.1. The original trade data in JIDEA 5.0 as a partner model is essentially linked to Bilateral Trade Model (BTM)¹⁰ in INFORUM systems. The sector numbers of JIDEA tradables has 64, and BTM has

⁹ Li Shangdong et al., "A Macroeconomic Multisectoral Dynamic Model of China's Economy (MuDan)," *Quantitative and Technical Economics*, Vol. 12, 1995.

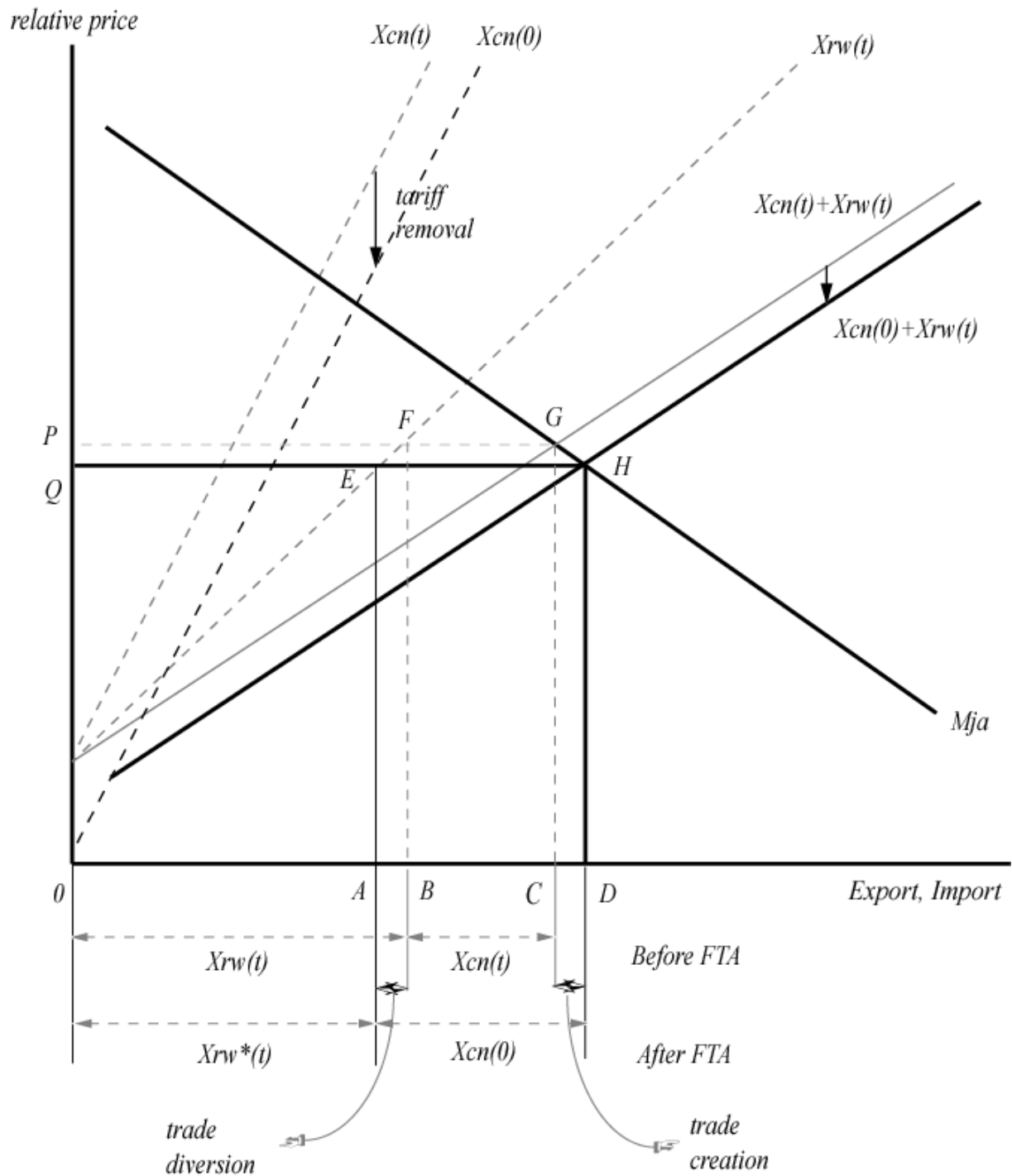
¹⁰ Qiang Ma, "A Multisectoral Bilateral Trade Model," INFORUM Working Paper, 95006R, 1996.

120 sectors. Chinese MUDAN model has another numbers of sectors. BTM, Bilateral Trade Model in INFORUM models provides the import price from the rest of the world and the exports to the rest of the world for each satellite countries which consists of 16 regions. The first step of this work was to separate such trade data to the two parts, that is, the data for China and for the rest of the world (ROW). The result of this manipulation in trade data are denoted by the name of variables in **Table 4**.

Table 4 *Notation of Japan-China trade link*

JIDEA51	version 5.1	100 sectors	MUDAN275	version 2.75	59 sectors
<i>pex</i>		<i>price of Japanese export</i>	<i>priceexp</i>		<i>price of Chinese export</i>
<i>pim</i>		<i>price of Japanese import</i>			<i>price of Chinese import</i>
<i>JApimCN</i>		<i>price of import from China</i>	<i>cnpimja</i>		<i>price of import from Japan</i>
<i>JApimRW</i>		<i>price of import from ROW</i>	<i>cnpimrw</i>		<i>price of import from ROW</i>
<i>JAexpCN</i>		<i>export from Japan to China</i>	<i>cnexpja</i>		<i>export from China to Japan</i>
<i>JAexpRW</i>		<i>export from Japan to ROW</i>	<i>cnexpw</i>		<i>export from China to ROW</i>
<i>JAimpCN</i>		<i>import of Japan from China</i>	<i>cnimpja</i>		<i>import of China from Japan</i>
<i>JAimpRW</i>		<i>import of Japan from ROW</i>	<i>cnimprw</i>		<i>import of China from ROW</i>
<i>JAexpCNr</i>		<i>export from Japan to China in real term</i>			
<i>JAexpRWr</i>		<i>export from Japan to ROW in real term</i>			
<i>JAimpCNr</i>		<i>import of Japan from China in real term</i>			
<i>JAimpRWr</i>		<i>import of Japan from ROW in real term</i>			

Figure 2 Analytical concept of Japan-China FTA



Simulation Results

In Simulation 1 (**sm1**), we made an assumption that unilateral tariff removal for Chinese products were introduced by Japan at the year 2003. In the next step in Simulation 2 (**sm2**), we also assumed the case of mutual import tariff removal where Japan and China have to remove import tariff barriers. In Simulation 2, mutual changes in import expansion due to mutual tariff removal should be estimated in terms of their own model, and each has to provide the result of trade change for the partner. Such partner's import expansion might be influenced on the domestic economy as an export increase in a dynamic context. To be exact, this kind of trade data has to be exchanged mutually until convergence in each multiplier process. Original BTM system has this integrated mechanism to calculate the convergence. Our initial work was designed to construct in a framework of two-country model directly to link Japan and China. For the time restriction, we had to calculate the influence of the external trade shock as once for all.¹¹

General Equilibrium Analysis such like JIDEA model or other Input-Output analysis can describe the comparative results in the growing industries and the declining industries separately. We used the observed data of Input-Output tables from 1985 to 1998 in JIDEA model. JIDEA model starts the forecasting from 1998. However, we could introduce the recent macroeconomic variables in the model. The simulation of tariff removal was set to begin at 2003.

Net influence of RTA between Japan China on Japanese macro economy is summarized in **Table 5**. The first line describes the value of each macroeconomic variable. The second and third lines indicate the difference from the value of Baseline for to the values of the unilateral tariff removal and multilateral tariff removal.

From our forecasting in **Table 6** for the broad sectoral summary in 29 sectors re-classified from 100, we observed that the mutual tariff removal in our simulation 2 (**sim2**) would expand the total output by 21.9 million Yen from the level of Baseline (**base**). Total import from China expands by 67 million Yen from baseline in 2010. Total export to China expands 87 million Yen. Net effect of employment is the increase of 9880 employee from the level of Baseline in 2010. Decrease of employment was observed in such sectors in 1, 3, 4, 5, 13, and 16 in **Table 6**. Correspondingly to this employment change, the lower levels of gross domestic output by sector were estimated in the sectors 1, 3, 4, 5, 16, and 28. These sectors are supposed be less competitive in foreign trade. Contrary to these diminishing industries, the rest of the industries would be totally growing until 2010. We could observe that the size of growth would be larger than the absolute size of decline.

Broad sectoral summary in Table 5 was manipulated from the precise table from **Table 7** for JIDEA 100 sectors. In **Figure 3 and 4**, we show the trends of Japanese total export and import for the specific biggest 10 industries until 2010 in Baseline. And, **Figure 5 and 6** illustrated the trends of such biggest 10 exports to China and imports from China.

Summary tables of Table 4, 5, and 6 imply that the positive effects in the growing industries mainly caused by Chinese tariff removal are greater than the negative effects in the declining industries mainly

¹¹ Lack of time forced us to use the trade data of Chinese import expansion due to their import tariff removal which were prepared by Douglas Nyhus in his former research; Douglas Nyhus, "A Study of China's Entry into the World Trade Organization", in INFORUM MODEL: Modelling & Applications, Proceedings of the VIIth INFORUM World Conference, China Financial & Economic Publishing House, 2002. In Nyhus's data, same calculation of ad-valorem tariff rate as we calculated precisely in JIDEA model work has not been done.

caused by Japanese tariff removal, leading Japanese economy more beneficial due to the RTA conclusion between Japan and China.

Table 3 Japanese Ad-valorem tariff rate for JIDEA 5.1

JIDEA5	Import from Chir	Calculated ad-v	Calculated ad-valor	sectors.ttl
13	114728573	21839167.70	19.04	Textiles ;13 e "Fabricated textile products"
1	70455601	2412341.62	3.42	Agri crops ;1 e "Agriculture for crops"
11	19269804	337903.00	1.75	Beverages ;11 e "Beverages & tobacco"
31	209725247	2875070.54	1.37	Leather ;31 e "Leather & Fur products"
24	5197751	67200.86	1.29	Chem fiber ;24 e "Chemical fibers"
12	7593690	68886.00	0.91	Feeds&fert ;12 e "Feeds and organic fertilizers"
9	72395443	633710.02	0.88	Petro & gas ;9 e "Crude petroleum & gas"
27	23675473	123703.04	0.52	Petro prod ;27 e "Petroleum refinery products"
22	58757629	128414.65	0.22	Chem organ ;22 e "Organic chemical products"
14	1885353356	3863819.50	0.20	Clothing ;14 e "Wearing and other textile products"
10	606719513	1042552.60	0.17	Food prod ;10 e "Food products"
26	42915708	59540.35	0.14	Chem final ;26 e "Final chemical products"
20	49661267	52371.10	0.11	Chem basic ;20 e "Inorganic basic chemicals"
23	4978519	4745.49	0.10	Chem resin ;23 e "Synthetic resin"
39	81217249	62654.93	0.08	Nonfer meta ;39 e "Non-ferrous metals refinery products"
2	13436257	0.00	0.00	Agri Livestk;2 e "Livestock raising and sericulture"
3			0.00	Agriculture Service;3
4	33242154	0.00	0.00	Forestry ;4 e "Forestry and logging"
5	41947077	0.00	0.00	Fishery ;5 e "Fishery"
6	4183093	0.00	0.00	Metal ores ;6 e "Metal ores"
7	33476721	0.00	0.00	Nonmet ores ;7 e "Non-metal ores"
8	133673660	0.00	0.00	Coal ;8 e "Coal and lignite"
15	120760032	0.00	0.00	Wooden prod ;15 e "Timber and wooden products"
16	124607291	0.00	0.00	Furniture ;16 e "Wooden & Metal Furniture, Fittings"
17	27364300	0.00	0.00	Pulp&paper ;17 e "Pulp and paper"
18	6967568	0.00	0.00	Printing ;18 e "Publishing and printing"
19	6307267	0.00	0.00	Chem fert ;19 e "Chemical fertilizer"
21	738327	0.00	0.00	Chem petro ;21 e "Petrochemical basic products"
25	15005736	0.00	0.00	Medicine ;25 e "Medicaments"
28	22454963	0.00	0.00	Coal prod ;28 e "Coal products"
29	115227127	0.00	0.00	Plastic prod;29 e "Plastic products"
30	214768578	0.00	0.00	Rubber prod ;30 e "Rubber products"
32	23027003	0.00	0.00	Glass ;32 e "Glass and glass products"
33	1724248	0.00	0.00	Cement ;33 e "Cement and cement products"
34	23113059	0.00	0.00	Pottery ;34 e "Pottery, tiles and earthenware"
35	110708176	0.00	0.00	Oth ceramic ;35 e "Other ceramic, stone and clay products"
36	38691643	0.00	0.00	Pig iron ;36 e "Pig iron and crude steel"
37	3425768	0.00	0.00	Steel ;37 e "Steel bar and sheet"
38	12193264	0.00	0.00	Steel Cast ;38 e "Steel castings and forging"
40	131225173	0.00	0.00	Proce Nonfer;40 e "Processed non-ferrous metal products"
41	18924586	0.00	0.00	Metal const ;41 e "Metal products for construction"
42	3201382	0.00	0.00	Heating equi;42 e "Heating equipment"
43	107589692	0.00	0.00	Metal other ;43 e "Other metal products"
44	83710568	0.00	0.00	Machine gene;44 e "General Machinery"
45	6624797	0.00	0.00	Machine tool;45 e "Machine Tool & Robot"
46	43659931	0.00	0.00	Machine spec;46 e "Special industry machinery"
47	28333272	0.00	0.00	Machine oth ;47 e "Other general machines and tools"
48	69773889	0.00	0.00	Mach office ;48 e "Machinery for office and for vending"
49	17016320	0.00	0.00	Mach service;49 e "Machinery for service"
50	450547243	0.00	0.00	Mach hous el;50 e "Household electric & electronic equipment"
51	683920215	0.00	0.00	Computer ;51 e "Electronic computing equipment and accessories devices"
52	62500284	0.00	0.00	Communic eqp;52 e "Communication equipment"
53	21812404	0.00	0.00	El apd&meas;53 e "Electronic appliances & measuring equipment"
54	74081737	0.00	0.00	IC ;54 e "Semi-conductor devices and integrated circuits"
55	274017744	0.00	0.00	Electro part;55 e "Electronic Parts"
56	260810026	0.00	0.00	Heavy el ;56 e "Heavy electrical equipment, Generators, Motors, etc."
57	138512057	0.00	0.00	Oth light el;57 e "Electric illuminator, batteries & other light electric app."
58	76425123	0.00	0.00	Motor vehicl;58 e "Motor vehicle"
59	6993768	0.00	0.00	Ships ;59 e "Ships and repair of ships"
60	293242	0.00	0.00	Rail equipme;60 e "Railway equipment"
61	224729	0.00	0.00	Air plane ;61 e "Air plane & repair"
62	54696071	0.00	0.00	Other transp;62 e "Other transportation equipment"
63	167325830	0.00	0.00	Precision ;63 e "Precision instruments, Medical instrument, etc."
64	383626844	0.00	0.00	Mfg miscella;64 e "Miscellaneous manufacturing products"
tradable	Import value fro	Tariff duty from	Average tariff rate	
1-64 se	7545535062	33572081.4	0.445	

Figure 3 10 Biggest Total Japanese Exports in Base Line
unit: trillion Yen

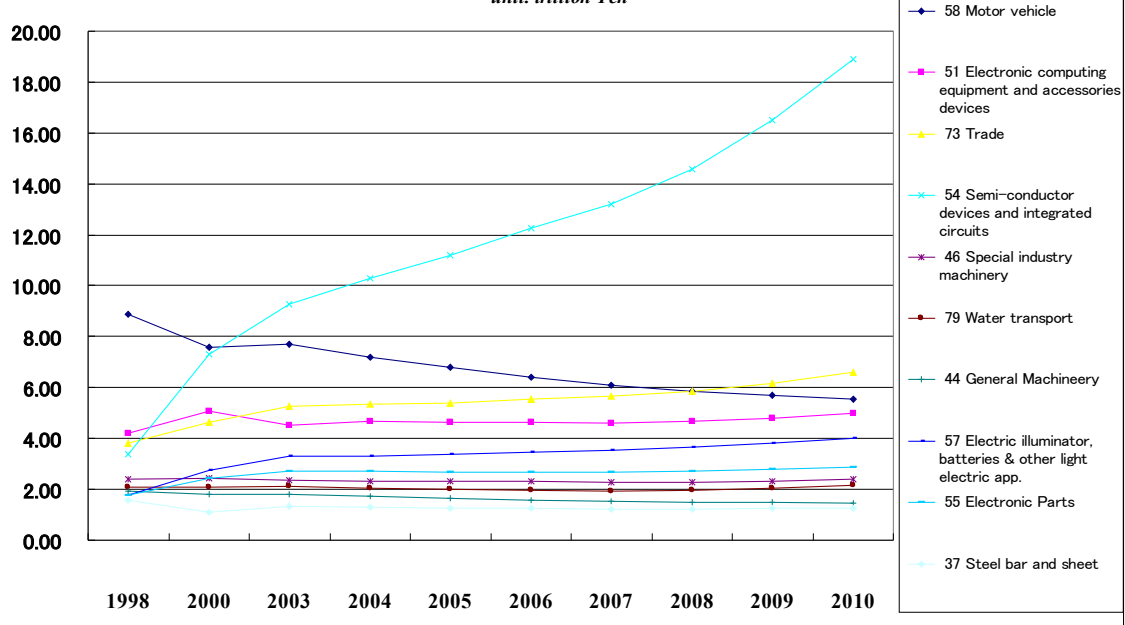


Figure 4 10 Biggest Total Japanese Imports in Base Line
unit: trillion Yen

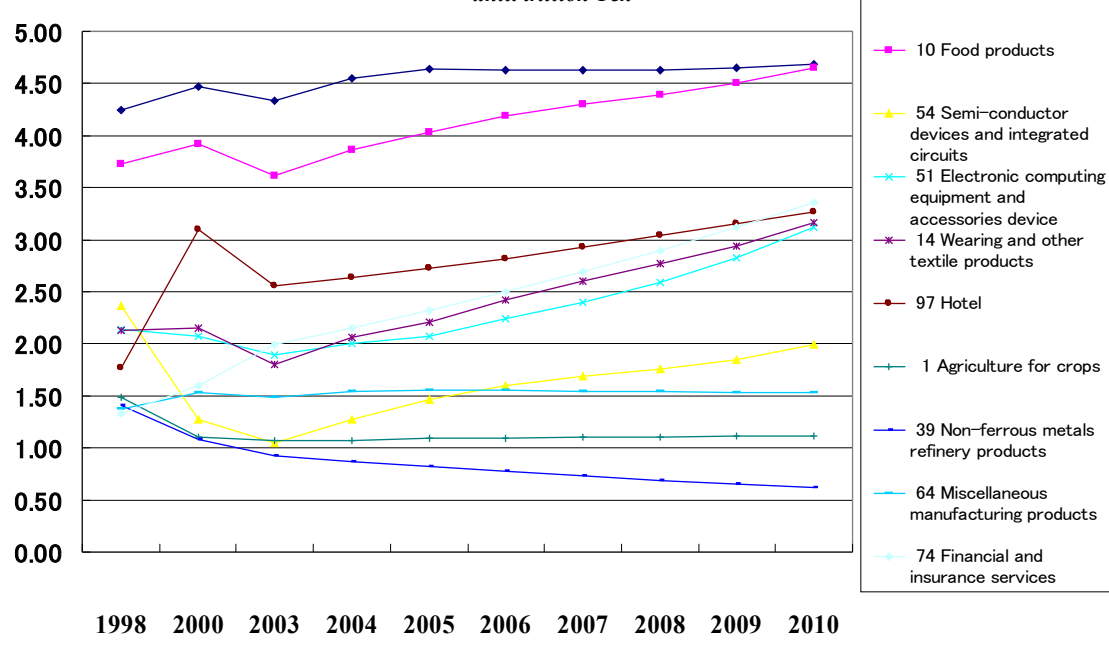


Figure 5 10 Biggest Japanese Exports to China in Base Line
unit: trillion Yen

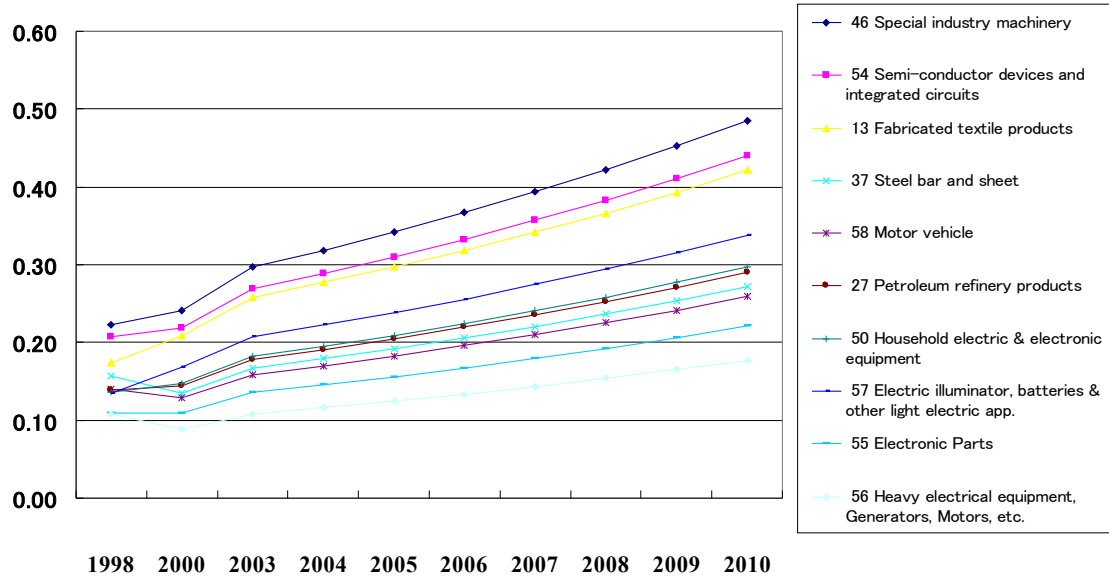


Figure 6 10 Biggest Japanese Imports from China in Base Line
unit: trillion Yen

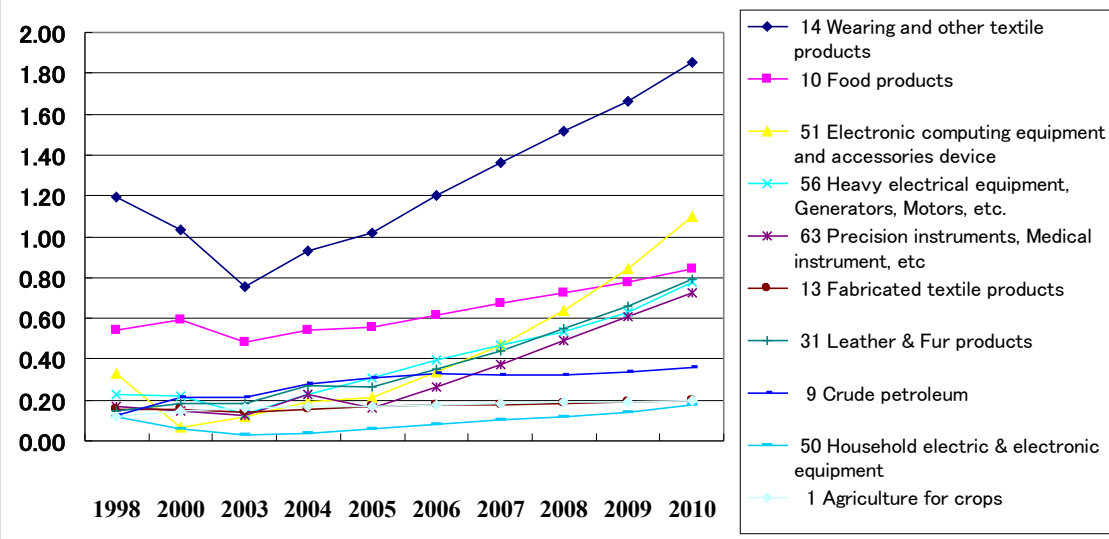


Table 5 Macroeconomic Summary in JIDEA Simulation

Titles of Alternate Runs										
Line 1: Japan-China FTA: Base Line 22/05/2004										
Line 2: Japan-China FTA: Alt Case I - Japanese Tariff Cut for China - difference from baseline										
Line 3: Japan-China FTA: Alt Case II - Japan & China Tariff Cut each other - difference from baseline										
Alternatives are shown in deviations from base values.										
GDP Components by Expenditure Category										
Trillions of 1995 Yen										
	1998	2000	2003	2004	2005	2006	2007	2008	2009	2010
Gross Domestic Product (nominal)	532.253	533.533	533.556	550.226	557.093	562.222	565.970	571.980	580.565	591.861
	0.000	0.000	-0.016	0.055	0.004	-0.012	-0.061	-0.052	-0.051	-0.061
	0.000	0.000	-0.016	0.055	0.004	-0.012	-0.061	-0.052	-0.051	-0.061
Gross Domestic Product (real)	523.156	539.259	560.323	578.258	584.188	587.677	589.610	592.580	597.600	604.612
	0.000	0.000	-0.023	0.055	0.007	-0.018	-0.073	-0.064	-0.063	-0.076
	0.000	0.000	-0.023	0.055	0.007	-0.018	-0.073	-0.064	-0.063	-0.076
GDP deflator (1995 price)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total Consumption	370.304	364.719	386.043	399.032	401.734	405.001	408.288	411.619	415.691	420.509
	0.000	0.000	0.001	0.009	0.023	0.012	0.006	0.009	0.007	0.001
	0.000	0.000	0.001	0.009	0.023	0.012	0.006	0.009	0.007	0.001
Consumption of Business	20.032	21.882	22.848	23.502	23.652	23.706	23.719	23.778	23.926	24.159
	0.000	0.000	-0.001	0.002	0.000	-0.001	-0.003	-0.003	-0.003	-0.003
	0.000	0.000	-0.001	0.002	0.000	-0.001	-0.003	-0.003	-0.003	-0.003
Consumption of Households	283.430	269.783	276.664	282.615	284.288	286.877	289.691	292.391	295.528	299.115
	0.000	0.000	0.002	0.002	0.022	0.014	0.017	0.019	0.016	0.012
	0.000	0.000	0.002	0.002	0.022	0.014	0.017	0.019	0.016	0.012
Consumption of Government	66.842	73.054	86.531	92.915	93.794	94.417	94.878	95.449	96.237	97.235
	0.000	0.000	0.000	0.006	0.001	-0.002	-0.008	-0.007	-0.007	-0.008
	0.000	0.000	0.000	0.006	0.001	-0.002	-0.008	-0.007	-0.007	-0.008
Total Investment	146.476	149.831	149.439	154.121	155.697	156.799	156.419	156.548	157.200	158.385
	0.000	0.000	-0.005	0.012	0.001	-0.001	-0.014	-0.012	-0.012	-0.012
	0.000	0.000	-0.005	0.012	0.001	-0.001	-0.014	-0.012	-0.012	-0.012
Business Investment	107.161	108.944	108.551	113.232	114.808	115.910	115.529	115.657	116.309	117.493
	0.000	0.000	-0.005	0.012	0.001	-0.001	-0.014	-0.012	-0.012	-0.012
	0.000	0.000	-0.005	0.012	0.001	-0.001	-0.014	-0.012	-0.012	-0.012
Dwelling Construction	22.243	22.299	21.787	23.520	23.940	23.389	22.171	21.202	20.474	20.066
	0.000	0.000	-0.003	0.007	0.002	0.000	-0.009	-0.008	-0.009	-0.008
	0.000	0.000	-0.003	0.007	0.002	0.000	-0.009	-0.008	-0.009	-0.008
Government Investment	39.315	40.887	40.888	40.889	40.889	40.890	40.890	40.891	40.891	40.891
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inventory Change	2.097	-3.216	-3.216	-3.216	-3.216	-3.216	-3.216	-3.216	-3.216	-3.216
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Exports	53.803	61.347	67.284	67.292	67.590	68.497	69.387	71.490	74.931	79.666
	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.001	0.000
	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.001	0.000
Tradable sectors	43.661	49.507	53.846	53.753	53.916	54.580	55.236	56.885	59.632	63.439
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
Imports	50.704	47.018	46.137	49.059	51.060	53.415	55.560	57.800	60.361	63.479
	0.000	0.000	0.017	-0.053	0.020	0.020	0.063	0.024	0.022	0.036
	0.000	0.000	0.017	-0.053	0.020	0.020	0.063	0.024	0.022	0.036
Tradable sectors	39.293	34.767	32.318	34.530	35.744	37.261	38.482	39.710	41.174	43.098
	0.000	0.000	0.017	-0.054	0.020	0.019	0.063	0.023	0.021	0.035
	0.000	0.000	0.017	-0.054	0.020	0.019	0.063	0.023	0.021	0.035
Trade balance (trillions of 1995 yen)	3.099	14.329	21.146	18.233	16.530	15.082	13.827	13.690	14.570	16.187
	0.000	0.000	-0.017	0.054	-0.019	-0.020	-0.063	-0.023	-0.022	-0.036
	0.000	0.000	-0.017	0.054	-0.019	-0.020	-0.063	-0.023	-0.022	-0.036
Tradable sectors	4.369	14.741	21.528	19.223	18.172	17.319	16.754	17.175	18.458	20.341
	0.000	0.000	-0.017	0.054	-0.020	-0.019	-0.062	-0.022	-0.021	-0.035
	0.000	0.000	-0.017	0.054	-0.020	-0.019	-0.062	-0.022	-0.021	-0.035
Total Industry Employment (million)	69.133	68.858	69.608	71.077	71.011	70.602	70.025	69.577	69.365	69.369
	0.000	0.000	-0.003	0.004	0.001	-0.003	-0.011	-0.010	-0.010	-0.011
	0.000	0.000	-0.003	0.004	0.001	-0.003	-0.011	-0.010	-0.010	-0.011
Tradable sectors (million)	20.401	21.163	21.484	21.686	21.563	21.374	21.167	21.012	20.977	21.035
	0.000	0.000	-0.002	0.003	-0.001	-0.002	-0.008	-0.005	-0.006	-0.006
	0.000	0.000	-0.002	0.003	-0.001	-0.002	-0.008	-0.005	-0.006	-0.006
Unemployment rate (%)	1.35	4.81	5.06	4.18	4.15	4.24	4.57	4.96	5.02	4.77

Table 6-1 Broad sectoral summary of JIDEA Simulation

JIDEA Simulation Summary												
Titles of Alternate Runs												
Line 1: Japan-China FTA: Base Line 22/05/2004												
Line 2: Japan-China FTA: Alt Case II - Japan & China Tariff Cut each other - difference from base												
Alternatives are shown in deviations from base values.												
GDP Components by Expenditure Category (Trillion of yen)												
	1985	1990	1998	2000	2003	2004	2005	2006	2007	2008	2009	2010
GDP (nominal)	317.600	428.743	532.253	533.533	533.556	550.226	557.093	562.222	565.970	571.980	580.565	591.861
	0.000	0.000	0.000	0.000	-0.016	0.055	0.004	-0.012	-0.061	-0.052	-0.051	-0.061
GDP (1995 price)	372.481	469.121	523.156	539.259	560.323	578.258	584.188	587.677	589.610	592.580	597.600	604.612
	0.000	0.000	0.000	0.000	-0.023	0.055	0.007	-0.018	-0.073	-0.064	-0.063	-0.076
GDP deflator	0.853	0.914	1.017	0.989	0.952	0.952	0.954	0.957	0.960	0.965	0.971	0.979
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total Consumption	253.830	313.162	370.304	364.719	386.043	399.032	401.734	405.001	408.288	411.619	415.691	420.509
	0.000	0.000	0.000	0.000	0.001	0.009	0.023	0.012	0.006	0.009	0.007	0.001
Private consumption	200.339	252.893	303.463	291.665	299.511	306.117	307.940	310.584	313.410	316.169	319.454	323.274
	0.000	0.000	0.000	0.000	0.001	0.004	0.023	0.014	0.014	0.016	0.013	0.009
Consumption of Business	16.423	18.521	20.032	21.882	22.848	23.502	23.652	23.706	23.719	23.778	23.926	24.159
	0.000	0.000	0.000	0.000	-0.001	0.002	0.000	-0.001	-0.003	-0.003	-0.003	-0.003
Consumption of Households	183.917	234.372	283.430	269.783	276.664	282.615	284.288	286.877	289.691	292.391	295.528	299.115
	0.000	0.000	0.000	0.000	0.002	0.002	0.022	0.014	0.017	0.019	0.016	0.012
Consumption of Government	53.491	60.269	66.842	73.054	86.531	92.915	93.794	94.417	94.878	95.449	96.237	97.235
	0.000	0.000	0.000	0.000	0.000	0.006	0.001	-0.002	-0.008	-0.007	-0.007	-0.008
Total Investment	96.690	144.677	146.476	149.831	149.439	154.121	155.697	156.799	156.419	156.548	157.200	158.385
	0.000	0.000	0.000	0.000	-0.005	0.012	0.001	-0.001	-0.014	-0.012	-0.012	-0.012
Government Investment	26.354	33.359	39.486	41.044	41.036	41.039	41.042	41.043	41.040	41.036	41.032	41.028
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Private investment	70.336	111.317	106.990	108.787	108.403	113.082	114.655	115.756	115.380	115.512	116.169	117.356
	0.000	0.000	0.000	0.000	-0.005	0.012	0.001	-0.001	-0.014	-0.012	-0.012	-0.012
Dwelling construction	17.731	27.046	22.243	22.299	21.787	23.520	23.940	23.389	22.171	21.202	20.474	20.066
	0.000	0.000	0.000	0.000	-0.003	0.007	0.002	0.000	-0.009	-0.008	-0.009	-0.008
Exports	42.155	44.378	53.803	61.347	67.284	67.292	67.590	68.497	69.387	71.490	74.931	79.666
	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.001	0.000
Tradable sectors	33.241	36.385	43.661	49.507	53.846	53.753	53.916	54.580	55.236	56.885	59.632	63.439
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
Imports	21.986	36.195	50.704	47.018	46.137	49.059	51.060	53.415	55.560	57.800	60.361	63.479
	0.000	0.000	0.000	0.000	0.017	-0.053	0.020	0.020	0.063	0.024	0.022	0.036
Tradable sectors	17.429	27.977	39.293	34.767	32.318	34.530	35.744	37.261	38.482	39.710	41.174	43.098
	0.000	0.000	0.000	0.000	0.017	-0.054	0.020	0.019	0.063	0.023	0.021	0.035
Trade balance (trillions of 1995 yen)	20.170	8.183	3.099	14.329	21.146	18.233	16.530	15.082	13.827	13.690	14.570	16.187
	0.000	0.000	0.000	0.000	-0.017	0.054	-0.019	-0.020	-0.063	-0.023	-0.022	-0.036
Tradable sectors	15.813	8.408	4.369	14.741	21.528	19.223	18.172	17.319	16.754	17.175	18.458	20.341
	0.000	0.000	0.000	0.000	-0.017	0.054	-0.020	-0.019	-0.062	-0.022	-0.021	-0.035
Trade balance (Billion in US\$)	0.048	0.011	-0.011	0.132	0.162	0.140	0.122	0.110	0.100	0.099	0.106	0.119
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total Employment(10 thousand)	6104.003	6426.801	6913.289	6885.759	6960.797	7107.695	7101.084	7060.215	7002.504	6957.669	6936.512	6936.857
	0.000	0.000	0.000	0.000	-0.310	0.402	0.070	-0.318	-1.114	-0.996	-1.015	-1.099
Tradable sectors	2139.133	2107.093	2040.091	2116.257	2148.381	2168.645	2156.301	2137.403	2116.718	2101.211	2097.685	2103.463
	0.000	0.000	0.000	0.000	-0.196	0.271	-0.072	-0.246	-0.787	-0.550	-0.572	-0.642
Unemployment rate (%)	2.60	2.10	1.35	4.81	5.06	4.18	4.15	4.24	4.57	4.96	5.02	4.77
	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.02	0.01	0.01	0.02

Table 6-2 Broad sectoral summary of JIDEA Simulation

JIDEA Simulation Summary												
Titles of Alternate Runs												
Line 1: Japan-China FTA: Base Line 22/05/2004												
Line 2: Japan-China FTA: Alt Case II - Japan & China Tariff Cut each other - difference from base												
Output by sector (Trillion of 1995 Yen)												
	1985	1990	1998	2000	2003	2004	2005	2006	2007	2008	2009	2010
Total output	689.995	877.144	956.950	1001.659	1041.157	1070.864	1079.816	1084.802	1087.074	1091.892	1100.920	1113.831
01 Agriculture, Forestry & Fishery	0.000	0.000	0.000	0.000	-0.049	0.093	0.001	-0.038	-0.160	-0.115	-0.102	-0.144
02 Mining	17.366	17.022	15.465	15.856	15.005	15.005	14.677	14.249	13.851	13.450	13.073	12.708
Total Manufacturing	0.000	0.000	0.000	0.000	0.001	0.000	0.003	0.001	-0.001	-0.002	-0.002	-0.002
03 Food & beverage, etc.	2.046	2.383	1.664	1.976	2.157	1.988	1.827	1.778	1.731	1.712	1.720	1.753
04 Textile	0.000	0.000	0.000	0.000	0.000	0.052	0.000	0.000	-0.001	0.000	0.000	0.000
05 Wood products & papers	251.759	320.131	336.094	356.315	372.989	379.594	381.107	382.030	382.138	384.148	388.442	394.540
06 Chemical products	0.000	0.000	0.000	0.000	-0.034	0.015	-0.023	-0.033	-0.116	-0.056	-0.042	-0.078
061 Medicine	35.821	38.375	38.663	35.341	35.669	36.658	36.843	36.701	36.659	36.549	36.488	36.442
07 Petro & coal products	0.000	0.000	0.000	0.000	-0.002	-0.004	0.002	-0.002	-0.008	-0.013	-0.013	-0.012
08 Glass & cement, etc.	13.550	14.601	10.020	12.037	13.177	13.117	12.957	12.743	12.562	12.433	12.324	12.177
09 Iron & steel	0.000	0.000	0.000	0.000	-0.005	-0.003	-0.002	-0.012	-0.008	-0.021	-0.023	-0.016
10 Non-ferrous metal	16.075	19.392	17.739	18.628	18.681	19.021	18.948	18.618	18.239	17.916	17.661	17.466
11 Metal Products	0.000	0.000	0.000	0.000	-0.001	0.000	0.001	0.002	-0.004	-0.007	-0.005	-0.009
12 General machinery	28.910	37.864	40.250	46.245	50.622	52.005	52.352	52.576	52.770	53.186	53.880	54.824
13 Electrical machinery	0.000	0.000	0.000	0.000	-0.004	0.001	-0.002	-0.004	-0.014	-0.007	-0.010	-0.016
133 Computer & Communication eq	2.762	4.803	6.414	8.033	9.784	10.615	10.937	11.238	11.523	11.829	12.160	12.529
14 Transportation equipments	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.001
141 Motor vehicle	8.349	10.231	9.723	10.008	9.811	9.856	9.747	9.594	9.414	9.274	9.176	9.112
15 Precision machinery	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.000	-0.001	-0.001	-0.001
16 Miscellaneous manufacturing	20.964	22.189	20.858	21.431	21.910	22.038	21.962	21.900	21.807	21.906	22.208	22.711
17 Construction	0.000	0.000	0.000	0.000	-0.001	0.002	0.000	0.000	-0.003	0.000	-0.001	-0.001
18 Electricity, gas, water	5.127	6.140	6.753	8.611	9.479	9.663	9.758	9.850	9.903	10.019	10.202	10.441
Service industry total	0.000	0.000	0.000	0.000	-0.001	0.002	0.000	0.000	-0.003	0.001	-0.001	-0.001
19 Trade	12.054	16.321	16.263	15.927	16.373	16.846	16.960	16.975	16.912	16.913	16.977	17.090
20 Finance, Real estate	0.000	0.000	0.000	0.000	-0.001	0.002	0.000	-0.001	-0.003	-0.002	-0.002	-0.001
21 House rent	21.741	28.549	27.105	26.737	26.643	26.843	26.878	26.923	26.730	26.659	26.707	26.853
22 Transportation	0.000	0.000	0.000	0.000	-0.001	0.001	-0.001	-0.002	-0.002	0.000	-0.002	-0.003
23 Communication	29.654	47.723	69.103	82.487	89.307	92.030	94.010	96.260	98.005	100.632	104.243	108.657
24 Public administration	0.000	0.000	0.000	0.000	-0.003	0.008	0.000	0.011	-0.022	0.015	0.030	-0.020
25 Education & Research	11.111	19.941	39.474	52.304	57.231	59.756	61.720	64.019	65.886	68.497	71.962	76.188
26 Hospital	0.000	0.000	0.000	0.000	0.000	0.001	-0.004	0.004	-0.005	0.011	0.032	0.001
27 Business service	32.407	44.969	44.253	41.692	43.572	43.668	42.946	42.560	42.212	42.103	42.258	42.604
28 Personal service	0.000	0.000	0.000	0.000	-0.001	0.002	-0.001	-0.002	-0.003	-0.002	-0.001	-0.002
29 N.E.C.	26.464	39.015	39.182	36.098	38.100	38.158	37.517	37.224	37.002	36.977	37.159	37.467
	0.000	0.000	0.000	0.000	-0.001	0.002	-0.001	-0.002	-0.002	-0.001	-0.001	-0.001
	3.672	4.563	4.207	4.205	4.341	4.229	4.214	4.042	3.867	3.696	3.555	3.429
	0.000	0.000	0.000	0.000	-0.007	0.010	-0.008	-0.010	-0.019	0.020	0.014	0.043
	15.485	20.339	20.221	21.949	22.246	22.272	22.240	22.015	21.774	21.546	21.378	21.231
	0.000	0.000	0.000	0.000	-0.006	-0.008	-0.013	-0.014	-0.026	-0.039	-0.027	-0.038
	66.001	93.571	83.616	85.603	84.330	86.720	87.061	86.488	85.290	84.458	83.965	83.855
	0.000	0.000	0.000	0.000	-0.004	0.009	0.001	0.000	-0.011	-0.008	-0.010	-0.009
	20.027	24.249	27.709	28.699	29.664	30.692	31.026	31.249	31.428	31.623	31.911	32.301
	0.000	0.000	0.000	0.000	-0.001	0.003	0.001	0.000	-0.002	-0.002	-0.003	-0.003
	325.738	413.215	486.671	507.185	531.596	551.479	558.894	563.956	567.775	571.825	577.301	584.326
	0.000	0.000	0.000	0.000	-0.011	0.012	0.019	-0.006	-0.030	-0.045	-0.044	-0.049
	61.329	81.816	98.984	92.594	96.108	98.769	100.441	101.598	102.401	103.349	104.581	106.127
	0.000	0.000	0.000	0.000	-0.003	0.000	0.003	0.000	-0.005	-0.008	-0.007	-0.009
	30.994	44.208	46.132	48.660	51.134	52.816	53.470	53.838	54.122	54.441	54.929	55.558
	0.000	0.000	0.000	0.000	-0.002	0.005	0.001	-0.002	-0.006	-0.007	-0.006	-0.006
	35.936	41.631	53.088	49.539	49.928	51.542	52.840	53.798	54.776	55.530	56.288	57.101
	0.000	0.000	0.000	0.000	0.001	-0.004	0.005	0.003	0.006	0.000	0.000	0.000
	32.359	38.041	42.876	42.899	44.715	45.653	45.863	45.853	45.724	45.705	45.929	46.414
	0.000	0.000	0.000	0.000	-0.002	0.000	0.001	-0.001	-0.005	-0.007	-0.007	-0.007
	7.410	10.208	19.798	20.100	19.698	20.559	21.543	22.426	23.206	23.951	24.729	25.594
	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.002	0.001	0.000	0.000	0.000
	25.243	25.780	30.158	32.018	37.097	39.693	40.107	40.385	40.604	40.855	41.203	41.641
	0.000	0.000	0.000	0.000	0.000	0.002	0.001	-0.001	-0.003	-0.003	-0.003	-0.004
	25.133	30.782	34.023	40.929	43.028	45.480	45.848	46.413	46.762	47.229	47.800	48.524
	0.000	0.000	0.000	0.000	-0.001	0.002	0.000	-0.001	-0.005	0.000	0.000	-0.001
	23.677	29.184	36.519	39.635	44.950	47.661	48.276	48.717	49.077	49.441	49.893	50.449
	0.000	0.000	0.000	0.000	0.000	0.002	0.001	0.000	-0.002	-0.003	-0.003	-0.003
	38.770	57.133	68.579	71.283	73.990	76.311	77.389	78.171	78.598	79.137	79.912	80.926
	0.000	0.000	0.000	0.000	-0.003	0.008	0.001	-0.002	-0.008	-0.006	-0.006	-0.007
	43.331	52.457	54.335	67.272	68.604	70.589	70.693	70.325	70.073	69.749	69.587	69.520
	0.000	0.000	0.000	0.000	-0.001	-0.003	0.004	-0.004	-0.003	-0.011	-0.011	-0.010
	8.615	8.549	7.910	8.280	7.758	7.793	7.649	7.483	7.292	7.115	6.959	6.821
	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	-0.001	-0.001	-0.001	-0.001

Table 6-3 Broad Sectoral Summary of JIDEA Simulation

Line 1: Japan-China FTA: Base Line 22/05/2004												
Line 2: Japan-China FTA: Alt Case II - Japan & China Tariff Cut each other - difference from baseline												
Import from China by sector (Trillion of 1995 Yen)												
	1985	1990	1998	2000	2003	2004	2005	2006	2007	2008	2009	2010
Total industry	0.000	1.351	4.337	3.825	3.152	4.128	4.380	5.359	6.255	7.229	8.335	9.731
01 Agriculture, Forestry & Fishery	0.000	0.157	0.137	0.172	0.184	0.190	0.195	0.201	0.206	0.212	0.218	0.225
02 Mining	0.000	0.472	0.218	0.310	0.299	0.374	0.405	0.429	0.424	0.428	0.443	0.470
Total Manufacturing	0.000	0.879	4.119	3.515	2.853	3.755	3.975	4.931	5.831	6.801	7.892	9.261
03 Food & beverage, etc.	0.000	0.193	0.552	0.608	0.501	0.560	0.574	0.638	0.695	0.750	0.803	0.864
04 Textile	0.000	0.000	0.000	0.000	0.001	0.001	-0.001	0.000	0.004	0.004	0.005	0.004
05 Wood products & papers	0.000	0.045	0.167	0.265	0.233	0.284	0.263	0.312	0.353	0.411	0.481	0.562
06 Chemical products	0.000	0.053	0.193	0.078	0.066	0.085	0.084	0.102	0.119	0.140	0.162	0.186
061 Medicine	0.000	0.006	0.017	0.009	0.007	0.008	0.009	0.010	0.011	0.011	0.012	0.013
07 Petro & coal products	0.000	0.069	0.022	0.038	0.036	0.050	0.060	0.067	0.069	0.071	0.077	0.086
08 Glass & cement, etc.	0.000	0.022	0.098	0.081	0.061	0.072	0.084	0.094	0.104	0.110	0.118	0.128
09 Iron & steel	0.000	0.048	0.067	0.098	0.095	0.113	0.124	0.133	0.136	0.139	0.146	0.155
10 Non-ferrous metal	0.000	0.024	0.116	0.096	0.099	0.102	0.103	0.105	0.108	0.111	0.114	0.117
11 Metal Products	0.000	0.005	0.055	0.043	0.025	0.047	0.071	0.094	0.110	0.125	0.149	0.189
12 General machinery	0.000	0.007	0.097	0.063	0.046	0.068	0.079	0.101	0.121	0.140	0.164	0.197
13 Electrical machinery	0.000	0.030	0.943	0.517	0.397	0.660	0.781	1.128	1.481	1.876	2.350	2.977
133 Computer & Communication eq	0.000	0.002	0.467	0.128	0.154	0.237	0.277	0.419	0.569	0.755	0.980	1.264
14 Transportation equipments	0.000	0.018	0.061	0.040	0.038	0.054	0.060	0.068	0.069	0.073	0.080	0.090
141 Motor vehicle	0.000	0.017	0.030	0.026	0.025	0.039	0.045	0.050	0.048	0.049	0.052	0.058
15 Precision machinery	0.000	0.005	0.171	0.148	0.123	0.227	0.159	0.264	0.375	0.494	0.608	0.727
16 Miscellaneous manufacturing	0.000	0.011	0.085	0.070	0.055	0.072	0.082	0.095	0.107	0.116	0.127	0.141
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
Import from Rest of the world (Trillion of 1995 Yen)												
	1985	1990	1998	2000	2003	2004	2005	2006	2007	2008	2009	2010
Total industry	14.554	24.203	29.473	29.488	27.781	29.057	30.089	30.739	31.104	31.395	31.798	32.384
01 Agriculture, Forestry & Fishery	2.875	2.265	1.869	1.321	1.194	1.177	1.176	1.171	1.167	1.163	1.160	1.161
02 Mining	3.859	4.521	5.508	5.786	5.570	5.764	5.912	6.001	6.050	6.090	6.145	6.225
Total Manufacturing	10.695	19.682	23.965	23.702	22.211	23.293	24.177	24.738	25.054	25.305	25.653	26.160
03 Food & beverage, etc.	1.702	3.318	4.139	4.360	4.105	4.359	4.557	4.680	4.751	4.809	4.888	5.000
04 Textile	0.823	1.400	1.176	1.363	1.327	1.394	1.450	1.485	1.504	1.519	1.540	1.570
05 Wood products & papers	0.757	1.357	1.419	1.557	1.482	1.557	1.614	1.650	1.670	1.687	1.710	1.742
06 Chemical products	1.581	2.281	2.944	2.625	2.547	2.620	2.682	2.722	2.749	2.770	2.794	2.826
061 Medicine	0.219	0.355	0.525	0.496	0.471	0.496	0.516	0.528	0.535	0.541	0.548	0.559
07 Petro & coal products	0.966	1.275	1.062	0.999	1.020	1.050	1.098	1.143	1.145	1.150	1.156	1.164
08 Glass & cement, etc.	0.199	0.316	0.247	0.222	0.204	0.210	0.215	0.219	0.219	0.220	0.221	0.223
09 Iron & steel	0.312	0.473	0.369	0.360	0.346	0.344	0.341	0.339	0.338	0.339	0.342	0.345
10 Non-ferrous metal	1.105	1.654	1.422	1.240	1.050	1.007	0.970	0.931	0.894	0.856	0.821	0.789
11 Metal Products	0.115	0.255	0.253	0.283	0.235	0.212	0.202	0.196	0.191	0.186	0.181	0.175
12 General machinery	0.642	1.085	1.257	1.016	0.969	1.024	1.057	1.076	1.083	1.090	1.102	1.120
13 Electrical machinery	0.858	2.148	5.551	5.516	4.913	5.328	5.697	5.954	6.139	6.293	6.482	6.739
133 Computer & Communication eq	0.386	1.088	3.765	3.705	3.178	3.463	3.753	3.961	4.115	4.242	4.396	4.604
14 Transportation equipments	0.574	1.545	1.744	1.655	1.581	1.681	1.764	1.820	1.856	1.887	1.926	1.979
141 Motor vehicle	0.216	0.905	0.955	1.062	0.969	1.062	1.136	1.183	1.211	1.233	1.264	1.308
15 Precision machinery	0.306	0.479	0.743	0.663	0.629	0.663	0.690	0.706	0.716	0.723	0.734	0.749
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Table 6-4 Broad Sectoral Summary of JIDEA Simulation

Line 1: Japan-China FTA: Base Line 22/05/2004												
Line 2: Japan-China FTA: Alt Case II - Japan & China Tariff Cut each other - difference from baseline												
Export to China by sector (Trillion of 1995 Yen)												
	1985	1990	1998	2000	2003	2004	2005	2006	2007	2008	2009	2010
Total industry	2.620	0.785	2.415	2.556	3.153	3.381	3.626	3.889	4.171	4.474	4.798	5.146
01 Agriculture, Forestry & Fishery	0.000	0.000	0.006	0.012	0.014	0.016	0.017	0.018	0.019	0.021	0.022	0.024
02 Mining	0.000	0.000	0.002	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002
Total Manufacturing	2.619	0.785	2.413	2.554	3.151	3.380	3.625	3.888	4.170	4.472	4.796	5.144
03 Food & beverage, etc.	0.006	0.004	0.012	0.013	0.016	0.017	0.018	0.020	0.021	0.023	0.024	0.026
04 Textile	0.050	0.050	0.189	0.230	0.284	0.305	0.327	0.351	0.376	0.403	0.432	0.464
05 Wood products & papers	0.034	0.017	0.039	0.048	0.059	0.064	0.068	0.073	0.079	0.084	0.090	0.097
06 Chemical products	0.183	0.130	0.234	0.277	0.341	0.366	0.392	0.421	0.451	0.484	0.519	0.557
061 Medicine	0.002	0.008	0.005	0.006	0.007	0.008	0.008	0.009	0.010	0.010	0.011	0.012
07 Petro & coal products	0.003	0.009	0.139	0.144	0.178	0.191	0.205	0.220	0.236	0.253	0.271	0.291
08 Glass & cement, etc.	0.019	0.016	0.045	0.052	0.064	0.069	0.074	0.080	0.085	0.091	0.098	0.105
09 Iron & steel	0.566	0.127	0.168	0.145	0.179	0.192	0.206	0.221	0.237	0.255	0.273	0.293
10 Non-ferrous metal	0.049	0.011	0.058	0.071	0.087	0.094	0.100	0.108	0.116	0.124	0.133	0.143
11 Metal Products	0.134	0.014	0.036	0.039	0.048	0.052	0.055	0.059	0.064	0.068	0.073	0.079
12 General machinery	0.370	0.131	0.428	0.434	0.536	0.574	0.616	0.661	0.709	0.760	0.815	0.874
13 Electrical machinery	0.461	0.157	0.815	0.843	1.040	1.116	1.197	1.283	1.376	1.476	1.583	1.698
133 Computer & Communication eq	0.099	0.056	0.350	0.354	0.437	0.469	0.503	0.539	0.578	0.620	0.665	0.713
14 Transportation equipments	0.655	0.088	0.164	0.153	0.189	0.202	0.217	0.233	0.250	0.268	0.287	0.308
141 Motor vehicle	0.572	0.062	0.140	0.129	0.159	0.170	0.183	0.196	0.210	0.225	0.242	0.259
15 Precision machinery	0.054	0.016	0.043	0.041	0.051	0.055	0.059	0.063	0.068	0.072	0.078	0.083
16 Miscellaneous manufacturing	0.028	0.010	0.033	0.052	0.064	0.068	0.073	0.079	0.084	0.090	0.097	0.104
Export to Rest of the World (Trillion of 1995 Yen)												
	1985	1990	1998	2000	2003	2004	2005	2006	2007	2008	2009	2010
Total industry	30.536	35.545	41.174	43.293	47.971	44.363	40.673	37.467	34.234	31.973	30.787	30.638
01 Agriculture, Forestry & Fishery	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000
02 Mining	0.020	0.015	0.015	0.013	0.013	0.011	0.010	0.008	0.007	0.006	0.006	0.005
Total Manufacturing	30.516	35.530	41.159	43.280	47.958	44.351	40.663	37.459	34.226	31.966	30.782	30.632
03 Food & beverage, etc.	0.324	0.226	0.198	0.164	0.149	0.130	0.112	0.098	0.085	0.075	0.067	0.063
04 Textile	0.959	0.682	0.431	0.583	0.639	0.547	0.473	0.430	0.385	0.353	0.333	0.322
05 Wood products & papers	0.265	0.320	0.243	0.202	0.193	0.174	0.155	0.138	0.122	0.110	0.102	0.097
06 Chemical products	2.289	2.933	4.131	4.809	5.791	5.341	4.898	4.494	4.108	3.813	3.620	3.530
061 Medicine	0.050	0.080	0.147	0.169	0.209	0.199	0.186	0.175	0.162	0.153	0.148	0.145
07 Petro & coal products	0.130	0.181	0.137	0.072	0.073	0.064	0.056	0.050	0.045	0.041	0.038	0.037
08 Glass & cement, etc.	0.501	0.453	0.436	0.415	0.466	0.412	0.367	0.323	0.283	0.253	0.231	0.218
09 Iron & steel	1.847	1.326	1.504	1.191	1.631	1.559	1.508	1.474	1.443	1.454	1.514	1.631
10 Non-ferrous metal	0.412	0.415	0.702	0.949	1.192	1.102	1.018	0.941	0.865	0.806	0.769	0.755
11 Metal Products	0.765	0.574	0.452	0.330	0.316	0.269	0.228	0.192	0.162	0.138	0.120	0.108
12 General machinery	4.175	4.967	5.490	4.836	4.878	4.334	3.871	3.424	2.999	2.677	2.447	2.298
13 Electrical machinery	7.036	10.545	14.934	19.447	22.165	21.333	20.099	19.049	17.810	17.069	16.905	17.306
133 Computer & Communication eq	2.547	4.920	9.268	13.555	15.408	15.238	14.606	14.095	13.353	13.001	13.107	13.658
14 Transportation equipments	9.883	10.975	10.487	8.549	8.860	7.701	6.684	5.802	5.017	4.391	3.931	3.615
141 Motor vehicle	8.204	9.486	8.727	6.925	7.165	6.178	5.321	4.584	3.936	3.419	3.036	2.770
15 Precision machinery	1.148	1.222	1.144	1.072	1.108	0.975	0.856	0.764	0.669	0.592	0.537	0.507

Table 6-5 Broad Sectoral Summary of JIDEA Simulation

Line 1: Japan-China FTA: Base Line 22/05/2004												
Line 2: Japan-China FTA: Alt Case II – Japan & China Tariff Cut each other – difference from baseline												
Employment by sector (10 thousand)												
	1985	1990	1998	2000	2003	2004	2005	2006	2007	2008	2009	2010
Total employment	6104.003	6426.801	6913.289	6885.759	6960.797	7107.695	7101.084	7060.215	7002.504	6957.669	6936.512	6936.857
	0.000	0.000	0.000	0.000	-0.310	0.402	0.070	-0.318	-1.114	-0.996	-1.015	-1.099
01 Agriculture, Forestry & Fishery	659.800	563.100	500.062	485.180	445.615	441.298	428.214	412.674	398.116	383.501	369.732	356.464
	0.000	0.000	0.000	0.000	0.048	0.036	0.098	0.053	0.017	-0.035	-0.020	-0.034
02 Mining	12.399	10.100	8.757	84.512	135.739	144.258	151.320	160.299	169.646	183.636	202.580	226.414
	0.000	0.000	0.000	0.000	-0.032	0.264	-0.005	0.006	-0.123	0.041	-0.037	-0.056
Total Manufacturing	1477.902	1541.502	1540.464	1555.690	1575.971	1592.158	1585.755	1573.287	1557.702	1542.683	1533.859	1528.951
	0.000	0.000	0.000	0.000	-0.211	-0.029	-0.164	-0.303	-0.681	-0.557	-0.516	-0.553
03 Food & beverage, etc.	156.999	159.600	175.232	172.521	187.133	196.142	200.886	204.490	208.914	213.040	217.443	221.854
	0.000	0.000	0.000	0.000	-0.008	-0.026	0.014	-0.011	-0.045	-0.073	-0.080	-0.074
04 Textile	191.115	189.742	148.807	162.465	162.955	158.467	152.890	146.984	141.612	136.277	131.317	126.126
	0.000	0.000	0.000	0.000	-0.072	-0.051	-0.029	-0.144	-0.098	-0.236	-0.247	-0.175
05 Wood products & papers	101.967	106.589	106.659	107.456	103.734	104.956	103.895	100.724	97.472	94.435	91.771	89.456
	0.000	0.000	0.000	0.000	-0.004	-0.001	0.013	0.017	-0.026	-0.048	-0.037	-0.050
06 Chemical products	114.658	124.562	135.851	143.661	148.955	151.406	151.406	150.673	149.728	148.916	148.766	149.178
	0.000	0.000	0.000	0.000	-0.010	0.005	-0.005	-0.010	-0.051	-0.019	-0.024	-0.047
061 Medicine	9.069	8.046	9.995	11.007	12.430	13.317	13.560	13.736	13.881	13.824	13.771	13.733
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.001
07 Petro & coal products	4.800	4.300	4.384	3.944	3.714	3.726	3.651	3.590	3.539	3.447	3.366	3.295
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08 Glass & cement, etc.	60.800	60.299	62.561	59.657	56.178	55.962	54.816	53.423	51.887	50.397	49.129	48.031
	0.000	0.000	0.000	0.000	-0.002	0.005	-0.001	-0.002	-0.009	-0.002	0.000	-0.001
09 Iron & steel	46.807	41.674	40.222	39.389	38.794	38.936	38.428	37.975	37.336	36.744	36.325	36.031
	0.000	0.000	0.000	0.000	-0.002	0.004	-0.001	-0.001	-0.006	0.000	-0.002	-0.003
10 Non-ferrous metal	19.693	20.426	21.492	25.990	27.411	27.632	27.492	27.309	27.037	26.904	26.948	27.137
	0.000	0.000	0.000	0.000	-0.002	0.004	0.001	0.001	-0.008	0.002	-0.001	-0.003
11 Metal Products	106.100	117.500	120.605	115.574	114.688	116.978	117.497	116.647	115.156	114.040	113.239	112.728
	0.000	0.000	0.000	0.000	-0.005	0.006	0.004	-0.007	-0.024	-0.011	-0.011	-0.010
12 General machinery	137.857	150.540	158.149	160.017	160.255	162.186	162.522	163.019	161.739	161.656	162.246	163.282
	0.000	0.000	0.000	0.000	-0.005	0.007	-0.006	-0.011	-0.012	0.000	-0.012	-0.020
13 Electrical machinery	245.145	265.361	254.123	258.975	263.282	266.051	266.794	267.876	267.729	265.807	265.668	266.507
	0.000	0.000	0.000	0.000	-0.017	0.035	0.010	0.034	-0.086	0.035	0.051	-0.079
133 Computer & Communication eq	92.518	90.623	102.828	124.001	129.441	133.921	137.015	140.768	143.612	145.246	148.265	152.288
	0.000	0.000	0.000	0.000	0.000	0.004	-0.009	0.005	-0.013	0.019	0.054	0.004
14 Transportation equipments	143.100	145.600	152.115	139.280	141.057	142.324	138.296	136.003	133.598	132.028	130.947	130.610
	0.000	0.000	0.000	0.000	-0.002	0.002	-0.006	-0.006	-0.010	-0.006	-0.005	-0.007
141 Motor vehicle	113.770	121.913	129.580	115.225	117.918	118.976	115.309	113.458	111.635	110.527	109.622	109.159
	0.000	0.000	0.000	0.000	-0.001	0.002	-0.005	-0.005	-0.007	-0.003	-0.003	-0.003
15 Precision machinery	33.700	33.200	26.946	23.249	22.253	21.541	21.270	20.139	19.056	17.579	16.300	15.132
	0.000	0.000	0.000	0.000	-0.029	0.057	-0.047	-0.049	-0.098	0.107	0.062	0.196
16 Miscellaneous manufacturing	115.161	122.109	133.319	143.512	145.562	145.852	145.911	144.435	142.899	141.413	140.395	139.583
	0.000	0.000	0.000	0.000	-0.054	-0.075	-0.109	-0.113	-0.208	-0.304	-0.208	-0.281
17 Construction	549.201	620.000	707.813	659.434	616.916	626.229	621.256	608.881	592.439	580.707	571.551	565.288
	0.000	0.000	0.000	0.000	-0.028	0.065	0.010	0.001	-0.074	-0.059	-0.068	-0.059
18 Electricity, gas, water	47.800	52.900	56.976	51.899	49.348	50.876	50.580	50.111	49.588	47.892	46.301	44.805
	0.000	0.000	0.000	0.000	-0.001	0.003	0.002	-0.001	-0.003	-0.004	-0.004	-0.004
Service industry total	3356.901	3639.199	4099.217	4049.044	4137.208	4252.879	4263.960	4254.963	4235.012	4219.250	4212.489	4214.935
	0.000	0.000	0.000	0.000	-0.085	0.060	0.128	-0.074	-0.250	-0.381	-0.370	-0.394
19 Trade	1098.800	1103.700	1132.358	961.955	946.515	960.567	964.320	962.619	957.153	944.011	932.715	923.325
	0.000	0.000	0.000	0.000	-0.025	-0.046	0.028	0.000	-0.046	-0.073	-0.067	-0.078
20 Finance, Real estate	254.375	287.674	256.609	247.038	242.096	246.746	246.450	244.652	242.302	235.112	228.278	221.596
	0.000	0.000	0.000	0.000	-0.009	0.023	0.006	-0.010	-0.025	-0.028	-0.026	-0.026
21 House rent	13.425	19.926	41.608	34.385	32.207	32.730	33.030	33.091	33.140	32.734	32.299	31.866
	0.000	0.000	0.000	0.000	0.001	-0.003	0.003	0.002	0.004	0.000	0.000	0.000
22 Transportation	270.078	282.079	316.296	280.386	297.547	302.501	302.869	301.406	298.551	297.162	297.410	299.164
	0.000	0.000	0.000	0.000	-0.016	0.008	0.004	-0.012	-0.052	-0.054	-0.052	-0.059
23 Communication	67.023	69.420	63.317	56.990	52.460	53.769	55.440	56.814	57.839	58.433	58.990	59.641
	0.000	0.000	0.000	0.000	-0.001	0.002	0.004	0.005	0.003	0.002	0.000	-0.001
24 Public administration	323.152	329.246	364.607	357.916	387.419	402.261	398.755	393.528	388.128	389.279	391.217	393.692
	0.000	0.000	0.000	0.000	-0.002	0.014	0.011	-0.013	-0.022	-0.034	-0.030	-0.033
25 Education & Research	204.283	282.166	356.673	397.474	392.895	406.542	399.702	394.518	387.245	389.653	392.718	396.909
	0.000	0.000	0.000	0.000	-0.006	0.016	0.003	-0.005	-0.033	-0.006	-0.004	-0.012
26 Hospital	198.672	214.621	321.858	358.750	424.653	456.973	469.990	481.563	492.608	503.888	516.319	530.105
	0.000	0.000	0.000	0.000	0.001	0.016	0.013	0.000	-0.018	-0.026	-0.027	-0.033
27 Business service	293.176	368.000	438.507	428.866	421.737	427.251	425.695	422.416	416.648	414.068	412.576	412.180
	0.000	0.000	0.000	0.000	-0.013	0.033	0.007	-0.008	-0.037	-0.033	-0.031	-0.036
28 Personal service	633.917	682.367	807.384	925.284	939.680	963.539	967.711	964.356	961.399	954.910	949.968	946.458
	0.000	0.000	0.000	0.000	-0.015	-0.045	0.050	-0.032	-0.024	-0.129	-0.133	-0.115
29 N.E.C.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Table 6-6 Broad Sectoral Summary of JIDEA Simulation

Line 1: Japan-China FTA: Base Line 22/05/2004												
Line 2: Japan-China FTA: Alt Case II - Japan & China Tariff Cut each other - difference from baseline												
Household Consumption by sector (Trillion of 1995 Yen)												
	1985	1990	1998	2000	2003	2004	2005	2006	2007	2008	2009	2010
Total consumption	183.917	234.372	283.430	269.783	276.664	282.615	284.288	286.877	289.691	292.391	295.528	299.115
01 Agriculture, Forestry & Fishery	0.000	0.000	0.000	0.000	0.002	0.002	0.022	0.014	0.017	0.019	0.016	0.012
	3.855	4.184	3.928	3.631	3.556	3.555	3.504	3.467	3.438	3.411	3.391	3.374
02 Mining	0.000	0.000	0.000	0.000	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.001
	0.004	0.000	0.000	0.011	0.025	0.030	0.034	0.039	0.043	0.048	0.052	0.057
Total Manufacturing	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	46.466	60.044	64.157	61.680	64.169	65.627	65.785	66.172	66.698	67.220	67.869	68.589
03 Food & beverage, etc.	0.000	0.000	0.000	0.000	-0.001	0.001	0.004	0.001	-0.001	0.001	0.002	0.001
	24.044	27.153	29.000	25.425	25.945	26.552	26.667	26.794	26.982	27.151	27.371	27.621
04 Textile	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.877	0.989	0.923	1.057	1.149	1.174	1.172	1.177	1.185	1.195	1.207	1.219
05 Wood products & papers	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	3.046	3.663	4.363	4.472	4.721	4.824	4.818	4.818	4.827	4.837	4.859	4.890
06 Chemical products	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
061 Medicine	0.381	0.644	0.893	1.101	1.142	1.177	1.168	1.161	1.160	1.161	1.166	1.172
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07 Petro & coal products	1.354	2.180	3.282	2.800	2.804	2.851	2.811	2.851	2.896	2.935	2.977	3.024
	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.000
08 Glass & cement, etc.	0.323	0.362	0.384	0.527	0.514	0.526	0.522	0.520	0.521	0.522	0.524	0.527
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.000	0.000	0.000	0.000
09 Iron & steel	-0.031	-0.027	-0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10 Non-ferrous metal	0.222	0.132	0.173	0.186	0.192	0.198	0.196	0.197	0.198	0.199	0.201	0.202
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11 Metal Products	0.451	0.418	0.516	0.451	0.490	0.505	0.506	0.509	0.515	0.520	0.527	0.533
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12 General machinery	0.005	0.038	0.040	0.033	0.033	0.033	0.034	0.035	0.036	0.037	0.038	0.039
	0.000	0.000	0.000	0.000	0.000	-0.000	0.000	0.000	0.000	0.000	0.000	0.000
13 Electrical machinery	2.179	4.769	8.353	7.924	8.103	8.290	8.358	8.436	8.525	8.613	8.722	8.844
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
133 Computer & Communication e	0.258	0.418	1.834	1.785	1.558	1.579	1.619	1.658	1.691	1.719	1.749	1.785
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14 Transportation equipments	2.653	5.739	5.131	5.325	5.741	5.886	5.928	5.990	6.070	6.142	6.222	6.306
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000
141 Motor vehicle	2.525	5.546	4.987	5.170	5.576	5.717	5.759	5.821	5.899	5.969	6.048	6.130
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000
15 Precision machinery	0.650	0.894	1.027	0.898	0.964	0.989	0.986	0.988	0.994	1.001	1.011	1.020
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16 Micellaneous manufacturing	3.916	5.453	5.255	5.843	6.063	6.195	6.173	6.153	6.149	6.148	6.164	6.184
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.001	0.000	0.000	-0.001
17 Construction	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18 Electricity, gas, water	5.024	6.401	10.152	8.093	8.190	8.343	8.460	8.621	8.783	8.927	9.078	9.245
	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001
Service industry total	128.452	163.723	205.163	196.339	200.693	205.030	206.476	208.549	210.700	212.757	215.110	217.822
	0.000	0.000	0.000	0.000	0.001	-0.001	0.016	0.011	0.014	0.014	0.011	0.008
19 Trade	30.164	38.276	51.689	39.468	41.954	42.782	43.584	44.359	45.087	45.866	46.718	47.685
	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.004	0.005	0.005	0.004	0.003
20 Finance, Real estate	5.021	8.752	8.148	7.681	8.036	8.179	8.090	8.025	7.995	7.955	7.923	7.874
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21 House rent	35.938	41.636	53.165	47.486	49.065	50.110	50.794	51.633	52.542	53.350	54.213	55.141
	0.000	0.000	0.000	0.000	0.001	-0.001	0.005	0.004	0.006	0.007	0.006	0.005
22 Transportation	10.001	13.533	16.531	14.642	15.628	15.822	15.845	15.859	15.865	15.854	15.878	15.949
	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	-0.001
23 Communication	2.510	3.086	9.908	8.724	7.084	7.047	7.353	7.684	7.975	8.232	8.483	8.771
	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.003	0.003	0.002	0.002
24 Public administration	3.344	3.661	3.798	3.774	4.041	4.148	4.165	4.198	4.248	4.293	4.346	4.400
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25 Education & Research	4.859	6.148	6.752	10.989	9.154	9.708	9.549	9.705	9.732	9.790	9.820	9.879
	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
26 Hospital	4.000	5.618	8.908	7.839	7.996	8.147	8.313	8.497	8.681	8.842	9.009	9.192
	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001
27 Business service	2.809	3.566	5.044	6.047	6.368	6.531	6.629	6.723	6.821	6.913	7.019	7.138
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28 Personal service	29.805	39.447	41.218	49.690	51.366	52.557	52.153	51.866	51.755	51.660	51.701	51.792
	0.000	0.000	0.000	0.000	-0.001	0.000	0.003	-0.002	-0.002	-0.003	-0.003	-0.003
29 N.E.C.	0.115	0.020	0.031	0.029	0.030	0.030	0.029	0.029	0.029	0.029	0.028	0.028
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Table 6-7 Broad Sectoral Summary of JIDEA Simulation

Line 1: Japan-China FTA: Base Line 22/05/2004												
Line 2: Japan-China FTA: Alt Case II - Japan & China Tariff Cut each other - difference from baseline												
Investment by sector/ by purchasing industry (Trillion of 1995 Yen)												
Alternatives are shown in deviations from base values.												
	1985	1990	1998	2000	2003	2004	2005	2006	2007	2008	2009	2010
Total investment	70.943	111.842	107.161	108.951	114.049	120.730	124.205	127.906	128.525	129.652	131.304	133.487
	0.000	0.000	0.000	0.000	-0.005	0.012	0.001	-0.001	-0.014	-0.012	-0.012	-0.012
01 Agriculture, Forestry & Fishery	2.180	2.887	2.301	2.232	2.132	2.192	2.212	2.215	2.151	2.088	2.033	1.988
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
02 Mining	0.141	0.217	0.188	0.210	0.222	0.233	0.218	0.224	0.225	0.231	0.238	0.246
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total Manufacturing	15.807	24.569	25.115	26.190	27.942	29.308	30.318	31.609	32.099	32.586	33.130	33.717
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.001	-0.001	-0.003	-0.001	-0.001
03 Food & beverage, etc.	1.556	2.428	2.408	2.531	2.670	2.774	2.772	2.878	2.918	2.978	3.044	3.108
	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000
04 Textile	0.523	0.754	0.710	0.686	0.724	0.743	0.765	0.798	0.812	0.827	0.841	0.852
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
05 Wood products & papers	0.708	1.082	1.044	1.141	1.198	1.259	1.327	1.381	1.386	1.383	1.382	1.385
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.001	0.000
06 Chemical products	1.358	2.151	2.450	2.649	2.912	3.071	3.238	3.406	3.466	3.522	3.583	3.656
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.001	0.000
061 Medicine	0.443	0.712	0.803	0.821	0.863	0.892	0.924	0.965	0.982	1.000	1.017	1.034
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07 Petroleum & Coal products	0.506	0.818	0.918	0.959	1.008	1.040	1.074	1.119	1.136	1.154	1.171	1.188
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08 Glass & cement, etc.	0.376	0.571	0.556	0.592	0.628	0.659	0.669	0.695	0.704	0.715	0.729	0.743
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
09 Iron & steel	1.024	1.623	1.727	1.798	1.861	1.922	1.988	2.066	2.088	2.108	2.130	2.155
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10 Non-ferrous metal	0.413	0.653	0.684	0.678	0.703	0.723	0.743	0.776	0.790	0.804	0.817	0.828
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11 Metal Products	0.650	0.975	0.841	0.800	0.869	0.934	0.938	0.956	0.965	0.982	1.005	1.026
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12 General machinery	1.540	2.343	2.202	2.277	2.386	2.511	2.581	2.696	2.741	2.778	2.825	2.875
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13 Electrical machinery	3.006	4.783	5.215	5.508	6.031	6.312	6.569	6.896	7.047	7.183	7.325	7.476
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.001	0.001	0.000
133 Computer & Communication e	1.596	2.532	2.776	2.992	3.235	3.378	3.516	3.694	3.785	3.868	3.955	4.047
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
14 Transportation equipments	2.098	3.213	3.227	3.351	3.365	3.567	3.683	3.798	3.842	3.891	3.953	4.027
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141 Motor vehicle	1.792	2.740	2.754	2.876	2.863	3.046	3.148	3.240	3.278	3.318	3.370	3.434
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15 Precision machinery	0.268	0.425	0.459	0.494	0.548	0.591	0.619	0.652	0.667	0.683	0.703	0.725
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16 Miscellaneous manufacturing	1.804	2.784	2.702	2.773	3.033	3.182	3.326	3.455	3.481	3.502	3.528	3.563
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.001	-0.001	-0.001
17 Construction & Civil Engineering	16.023	24.615	20.356	21.447	19.926	21.381	20.910	20.386	19.164	18.151	17.434	16.952
	0.000	0.000	0.000	0.000	-0.003	0.009	0.001	-0.003	-0.010	-0.008	-0.007	-0.008
18 Electricity,gas,water & Waste treat	4.302	6.883	8.297	8.788	9.366	9.761	10.233	10.762	11.008	11.237	11.463	11.701
	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
Service industry total	47.062	74.948	69.221	69.366	72.134	76.853	78.814	80.591	80.514	80.952	81.835	83.181
	0.000	0.000	0.000	0.000	-0.005	0.011	0.000	-0.001	-0.013	-0.009	-0.011	-0.010
19 Trade	4.487	7.282	5.631	4.843	5.662	6.156	6.362	6.512	6.552	6.648	6.797	6.955
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.001	-0.001	0.000	0.000
20 Finance, Real estate	1.408	2.333	2.822	2.863	3.207	3.385	3.555	3.767	3.880	3.999	4.123	4.252
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21 House rent	4.444	6.826	5.573	4.472	5.787	6.343	7.472	7.536	7.522	7.579	7.594	7.729
	0.000	0.000	0.000	0.000	0.000	-0.001	0.001	0.003	0.000	0.000	-0.003	0.000
22 Transportation	3.909	6.110	6.378	6.586	6.581	6.800	7.061	7.310	7.346	7.403	7.501	7.677
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.001	-0.001	-0.001
23 Communication	1.861	3.264	5.457	6.109	5.954	6.205	6.579	7.077	7.395	7.692	7.981	8.273
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000
24 Public administration	0.538	0.881	0.536	0.571	0.698	0.742	0.783	0.835	0.856	0.874	0.892	0.910
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25 Education & Research	2.529	4.200	3.172	3.738	3.953	4.182	3.776	3.831	3.827	3.944	4.109	4.270
	0.000	0.000	0.000	0.000	-0.001	0.003	-0.002	-0.001	-0.003	0.001	0.000	-0.001
26 Hospital & Social securities	2.603	4.329	3.486	3.631	3.709	4.012	4.054	4.084	4.135	4.188	4.246	4.305
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27 Business service	6.233	10.357	12.339	12.618	13.911	14.769	15.559	16.484	17.033	17.570	18.136	18.722
	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
28 Personal service	4.360	6.894	5.350	4.490	4.826	5.082	4.927	5.080	5.133	5.261	5.421	5.582
	0.000	0.000	0.000	0.000	-0.001	0.002	-0.001	-0.001	-0.002	0.000	0.000	0.000
29 N.E.C.	0.141	0.231	0.196	0.202	0.214	0.219	0.227	0.237	0.242	0.246	0.250	0.254
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Table 7-3 100 Sector Summary of JIDEA Simulation for Japan-China FTA

JIDEA Model 5.1: Simulation2 for Japan-China Mutual Tariff Removal 27/05/2004

Japanese Imports from China by Industry – 100 Sectors

	1998	2000	2003	2004	2005	2006	2007	2008	2009	2010
Total tradables	4.474	3.997	3.354	4.322	4.595	5.585	6.535	7.482	8.599	10.023
1 Agriculture for crops	0.114	0.148	0.162	0.167	0.172	0.177	0.182	0.188	0.194	0.200
2 Livestock and silkworms	0.012	0.018	0.018	0.020	0.020	0.020	0.021	0.021	0.021	0.022
3 Agricultural services	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4 Forestry and logging	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.001
5 Fishery	0.007	0.006	0.004	0.004	0.003	0.003	0.003	0.002	0.002	0.002
6 Metal ores	0.001	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003
7 Non-metal ores	0.038	0.040	0.039	0.041	0.042	0.044	0.045	0.045	0.047	0.048
8 Coal and lignite	0.056	0.051	0.047	0.051	0.054	0.056	0.057	0.058	0.060	0.062
9 Crude petroleum	0.123	0.216	0.211	0.280	0.307	0.327	0.320	0.322	0.335	0.358
10 Food products	0.540	0.592	0.484	0.542	0.553	0.617	0.678	0.732	0.786	0.845
11 Beverages & tobacco	0.009	0.013	0.015	0.016	0.017	0.017	0.018	0.019	0.020	0.021
12 Feeds and organic fertilizers	0.002	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004
13 Fabricated textile products	0.152	0.156	0.144	0.158	0.168	0.177	0.182	0.186	0.192	0.199
14 Wearing and other textile products	1.191	1.031	0.758	0.934	1.019	1.207	1.367	1.528	1.682	1.863
15 Timber and wooden products	0.089	0.208	0.191	0.231	0.212	0.245	0.272	0.313	0.365	0.423
16 Wooden & Metal Furniture, Fixtures	0.056	0.050	0.037	0.044	0.045	0.054	0.064	0.072	0.080	0.090
17 Pulp and paper	0.022	0.007	0.005	0.009	0.006	0.011	0.017	0.029	0.039	0.055
18 Publishing and printing	0.004	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.003
19 Chemical fertilizer	0.002	0.002	0.001	0.002	0.003	0.003	0.003	0.003	0.004	0.004
20 Inorganic basic chemical	0.027	0.018	0.015	0.017	0.017	0.019	0.021	0.023	0.025	0.026
21 Petrochemical basic products	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002
22 Organic chemical products	0.029	0.017	0.015	0.018	0.017	0.019	0.021	0.022	0.024	0.024
23 Synthetic resin	0.007	0.001	0.001	0.002	0.002	0.003	0.003	0.004	0.005	0.007
24 Chemical fibers	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003
25 Medicaments	0.017	0.009	0.007	0.008	0.009	0.010	0.010	0.011	0.012	0.013
26 Final chemical products	0.025	0.018	0.014	0.018	0.020	0.022	0.024	0.026	0.028	0.030
27 Petroleum refinery products	0.008	0.023	0.024	0.030	0.034	0.036	0.035	0.036	0.037	0.040
28 Coal products	0.014	0.016	0.012	0.020	0.026	0.032	0.033	0.036	0.040	0.047
29 Plastic products	0.061	0.006	0.005	0.009	0.008	0.013	0.020	0.027	0.037	0.049
30 Rubber products	0.023	0.005	0.005	0.008	0.006	0.010	0.015	0.019	0.025	0.031
31 Leather & Fur products	0.144	0.181	0.185	0.279	0.275	0.366	0.463	0.581	0.685	0.833
32 Glass and glass products	0.012	0.008	0.006	0.009	0.010	0.012	0.013	0.014	0.015	0.017
33 Cement and cement products	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
34 Pottery, tiles and earthenware	0.011	0.007	0.006	0.007	0.008	0.009	0.010	0.010	0.011	0.012
35 Other ceramic, stone and clay	0.073	0.064	0.047	0.055	0.065	0.072	0.079	0.084	0.089	0.097
36 Pig iron and crude steel	0.022	0.037	0.041	0.042	0.044	0.045	0.046	0.048	0.050	0.051
37 Steel bar and sheet	0.041	0.056	0.050	0.065	0.074	0.080	0.081	0.083	0.087	0.094
38 Steel castings and forging	0.004	0.005	0.004	0.005	0.007	0.008	0.008	0.009	0.009	0.010
39 Non-ferrous metals refinery products	0.090	0.093	0.097	0.099	0.100	0.102	0.103	0.105	0.106	0.108
40 Processed non-ferrous metal products	0.026	0.003	0.002	0.003	0.003	0.004	0.005	0.007	0.008	0.009
41 Metal products for construction	0.014	0.012	0.007	0.015	0.024	0.032	0.037	0.041	0.049	0.064
42 Heating equipment	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002
43 Other metal product	0.040	0.031	0.018	0.032	0.046	0.062	0.073	0.084	0.099	0.124
44 General Machinery	0.017	0.005	0.005	0.007	0.007	0.009	0.012	0.014	0.017	0.021
45 Machine Tool & Robot	0.009	0.007	0.007	0.009	0.009	0.011	0.013	0.015	0.017	0.020
46 Special industry machinery	0.056	0.037	0.023	0.035	0.047	0.062	0.075	0.087	0.104	0.127
47 Other general machines and tools	0.015	0.014	0.012	0.016	0.017	0.020	0.022	0.025	0.028	0.032
48 Machinery for office and for use in shops	0.008	0.019	0.012	0.030	0.031	0.054	0.079	0.110	0.135	0.194
49 Machinery for service	0.003	0.001	0.001	0.001	0.002	0.003	0.004	0.005	0.006	0.008
50 Household electric & electronic equipment	0.117	0.058	0.026	0.038	0.061	0.080	0.103	0.120	0.142	0.174
51 Electronic computing equipment	0.329	0.067	0.119	0.190	0.212	0.333	0.466	0.631	0.829	1.101
52 Communication equipment	0.098	0.042	0.025	0.032	0.044	0.053	0.064	0.071	0.080	0.092
53 Electronic appliances & measuring instruments	0.010	0.003	0.003	0.007	0.008	0.012	0.019	0.025	0.034	0.047
54 Semi-conductor devices and integrated circuits	0.030	0.016	0.008	0.011	0.017	0.023	0.029	0.034	0.039	0.048
55 Electronic Part	0.011	0.002	0.002	0.003	0.005	0.007	0.010	0.014	0.018	0.025
56 Heavy electrical equipment, electrical control equipment	0.225	0.220	0.135	0.226	0.304	0.397	0.472	0.537	0.634	0.780
57 Electric illuminator, battery, electric bell	0.113	0.088	0.069	0.117	0.096	0.159	0.253	0.324	0.428	0.537
58 Motor vehicle	0.030	0.026	0.025	0.039	0.045	0.050	0.048	0.049	0.052	0.058
59 Ships and repair of ships	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
60 Railway equipment	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
61 Air plane & repair of aircraft	0.000	0.000	0.000	0.001	0.000	0.001	0.002	0.003	0.004	0.006
62 Other transportation equipment	0.023	0.007	0.006	0.007	0.008	0.010	0.012	0.014	0.016	0.019
63 Precision instruments, Medical instruments	0.171	0.148	0.129	0.219	0.167	0.273	0.393	0.477	0.597	0.691
64 Miscellaneous manufacturing products	0.085	0.070	0.055	0.072	0.082	0.096	0.106	0.117	0.127	0.142

Table 7-4 100 Sector Summary of JIDEA Simulation for Japan-China FTA

JIDEA Model 5.1: Simulation2 for Japan-China Mutual Tariff Removal 27/05/2004										
Exports by Industry - 100 Sectors										
	1998	2000	2003	2004	2005	2006	2007	2008	2009	2010
Total Exports	53.803	61.347	67.351	67.365	67.668	68.579	69.475	71.583	75.031	79.773
Total Tradables	43.661	49.507	53.901	53.814	53.980	54.648	55.308	56.962	59.714	63.527
1 Agriculture for crops	0.034	0.014	0.017	0.016	0.016	0.015	0.015	0.015	0.015	0.015
2 Livestock raising and sericul	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003
3 Agricultural services	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4 Forestry and logging	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
5 Fishery	0.035	0.041	0.043	0.043	0.043	0.043	0.043	0.044	0.045	0.046
6 Metal ores	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
7 Non-metal ores	0.014	0.013	0.013	0.012	0.012	0.011	0.011	0.010	0.010	0.010
8 Coal and lignite	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9 Crude petroleum & gas	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10 Food products	0.161	0.121	0.099	0.092	0.086	0.082	0.078	0.075	0.073	0.072
11 Beverages & tobacco	0.042	0.059	0.063	0.062	0.061	0.061	0.060	0.061	0.061	0.063
12 Feeds and organic fertilizers	0.007	0.010	0.011	0.011	0.011	0.010	0.010	0.011	0.011	0.011
13 Fabricated textile products	0.572	0.818	0.923	0.893	0.879	0.899	0.918	0.949	0.991	1.042
14 Wearing and other textile pro	0.048	0.044	0.038	0.040	0.040	0.041	0.042	0.043	0.045	0.048
15 Timber and wooden products	0.006	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007
16 Wooden & Metal Furniture, Fit	0.031	0.020	0.023	0.020	0.019	0.017	0.016	0.015	0.014	0.014
17 Pulp and paper	0.245	0.243	0.237	0.239	0.239	0.241	0.243	0.249	0.257	0.267
18 Publishing and printing	0.035	0.034	0.032	0.020	0.019	0.019	0.018	0.018	0.018	0.018
19 Chemical fertilizer	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.009	0.009
20 Inorganic basic chemical	0.167	0.169	0.174	0.170	0.165	0.160	0.156	0.155	0.156	0.157
21 Petrochemical basic products	0.161	0.354	0.441	0.461	0.481	0.506	0.533	0.568	0.613	0.667
22 Organic chemical products	1.374	1.854	2.467	2.493	2.526	2.572	2.629	2.711	2.824	2.970
23 Synthetic resin	0.632	1.034	1.233	1.252	1.275	1.304	1.340	1.387	1.450	1.529
24 Chemical fibers	0.198	0.178	0.178	0.171	0.164	0.159	0.156	0.153	0.153	0.153
25 Medicaments	0.151	0.121	0.060	0.034	0.006	-0.021	-0.047	-0.070	-0.091	-0.110
26 Final chemical products	0.778	0.756	0.777	0.766	0.748	0.731	0.717	0.715	0.721	0.733
27 Petroleum refinery products	0.245	0.179	0.198	0.206	0.217	0.229	0.244	0.260	0.277	0.296
28 Coal products	0.031	0.044	0.058	0.058	0.058	0.059	0.060	0.061	0.063	0.066
29 Plastic products	0.375	0.447	0.502	0.493	0.486	0.482	0.478	0.480	0.486	0.496
30 Rubber products	0.519	0.475	0.430	0.403	0.380	0.361	0.344	0.331	0.323	0.317
31 Leather & Fur products	0.021	0.020	0.019	0.019	0.018	0.018	0.018	0.017	0.017	0.017
32 Glass and glass products	0.174	0.227	0.262	0.262	0.260	0.261	0.261	0.265	0.272	0.282
33 Cement and cement products	0.018	0.011	0.006	0.005	0.005	0.004	0.004	0.003	0.003	0.002
34 Pottery, tiles and earthenwar	0.126	0.094	0.085	0.082	0.079	0.076	0.075	0.074	0.074	0.075
35 Other ceramic, stone and clay	0.163	0.169	0.204	0.192	0.188	0.179	0.173	0.168	0.166	0.166
36 Pig iron and crude steel	0.090	0.300	0.554	0.658	0.795	0.959	1.148	1.399	1.722	2.130
37 Steel bar and sheet	1.567	1.113	1.328	1.295	1.269	1.252	1.240	1.240	1.251	1.272
38 Steel castings and forging	0.015	0.015	0.014	0.014	0.014	0.014	0.014	0.014	0.013	0.013
39 Non-ferrous metals refinery p	0.203	0.309	0.434	0.450	0.470	0.492	0.516	0.547	0.586	0.633
40 Processed non-ferrous metal p	0.557	0.786	0.908	0.899	0.894	0.894	0.896	0.906	0.926	0.954
41 Metal products for constructi	0.029	0.021	0.017	0.016	0.015	0.014	0.013	0.012	0.011	0.011
42 Heating equipment	0.025	0.020	0.020	0.019	0.019	0.018	0.018	0.017	0.017	0.017
43 Other metal products	0.434	0.354	0.345	0.324	0.305	0.290	0.277	0.267	0.261	0.257
44 General Machinery	1.918	1.792	1.795	1.712	1.643	1.584	1.531	1.496	1.477	1.472
45 Machine Tool & Robot	1.007	0.979	1.017	1.009	1.016	1.013	1.005	1.012	1.032	1.063
46 Special industry machinery	2.393	2.418	2.369	2.335	2.332	2.310	2.282	2.294	2.331	2.388
47 Other general machines and tc	0.600	0.463	0.493	0.459	0.433	0.410	0.390	0.375	0.364	0.358
48 Machinery for office and for	0.632	0.561	0.550	0.514	0.479	0.447	0.420	0.397	0.380	0.369
49 Machinery for service	0.106	0.146	0.165	0.169	0.172	0.176	0.179	0.186	0.195	0.206
50 Household electric & electror	1.422	0.770	0.749	0.687	0.639	0.602	0.573	0.554	0.543	0.539
51 Electronic computing equipme	4.207	5.073	4.508	4.679	4.636	4.651	4.614	4.658	4.789	5.005
52 Communication equipment	0.281	0.177	0.138	0.122	0.108	0.097	0.087	0.080	0.074	0.070
53 Electronic appliances & measu	0.891	1.269	1.458	1.448	1.442	1.445	1.452	1.472	1.508	1.559
54 Semi-conductor devices and ir	3.365	7.289	9.278	10.314	11.195	12.256	13.202	14.590	16.501	18.192
55 Electronic Parts	1.764	2.435	2.732	2.710	2.691	2.689	2.692	2.722	2.783	2.872
56 Heavy electrical equipment, C	1.315	1.346	1.509	1.453	1.405	1.365	1.332	1.312	1.304	1.309
57 Electric illuminator, batteri	1.765	2.754	3.289	3.322	3.379	3.447	3.531	3.646	3.801	3.995
58 Motor vehicle	8.867	7.597	7.713	7.219	6.801	6.440	6.127	5.878	5.700	5.581
59 Ships and repair of ships	1.349	1.414	1.498	1.476	1.456	1.440	1.422	1.418	1.429	1.453
60 Railway equipment	0.031	0.019	0.020	0.018	0.017	0.016	0.015	0.014	0.013	0.013
61 Air plane & repair	0.233	0.204	0.187	0.175	0.165	0.157	0.150	0.146	0.143	0.142
62 Other transportation equipme	0.170	0.138	0.109	0.097	0.087	0.079	0.072	0.066	0.062	0.059
63 Precision instruments, Medica	1.186	1.197	1.218	1.165	1.122	1.101	1.071	1.048	1.040	1.054
64 Miscellaneous manufacturing p	0.859	0.976	0.873	0.519	0.478	0.448	0.423	0.403	0.389	0.379
Total Non-tradables	10.142	11.840	13.450	13.552	13.689	13.931	14.167	14.622	15.317	16.247
65 Dwelling construction	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
66 Other construction	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
67 Civil engineering public	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
68 Civil engineering private	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
69 Electric power	0.010	0.020	0.021	0.021	0.021	0.021	0.021	0.022	0.022	0.022
70 Gas and hot water supply	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
71 Water supply	0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
72 Waste treatment	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
73 Trade	3.817	4.643	5.290	5.337	5.409	5.530	5.650	5.867	6.191	6.619
74 Financial and insurance servi	0.757	0.922	1.184	1.216	1.249	1.289	1.329	1.384	1.457	1.546
75 Real estate agenciesand rent	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
76 House rent	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004
77 Railway transport	0.036	0.050	0.057	0.057	0.058	0.059	0.061	0.064	0.069	0.076
78 Road transport	0.578	0.655	0.722	0.727	0.734	0.746	0.759	0.782	0.817	0.863
79 Water transport	2.096	2.079	2.143	2.065	2.002	1.967	1.932	1.951	2.032	2.172
80 Air transport	0.521	0.735	0.811	0.836	0.861	0.888	0.915	0.944	0.976	1.010
81 Transportation related servic	0.779	0.916	1.058	1.080	1.102	1.126	1.150	1.180	1.215	1.256
82 Communication	0.109	0.158	0.194	0.199	0.205	0.212	0.220	0.232	0.247	0.267
83 Broadcasting	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
84 Public administration	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85 Education	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
86 Research Institute	0.014	0.016	0.018	0.018	0.018	0.018	0.019	0.019	0.019	0.019
87 Medical service, health and s	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
88 Social security service	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
89 Other public service	0.033	0.044	0.043	0.044	0.044	0.044	0.045	0.045	0.045	0.045
90 Advertising agencies	0.082	0.085	0.090	0.092	0.092	0.092	0.092	0.092	0.092	0.093
91 News & Information service	0.115	0.139	0.164	0.167	0.170	0.173	0.177	0.181	0.186	0.191
92 Renting and leasing	0.097	0.104	0.152	0.159	0.165	0.171	0.177	0.183	0.190	0.198
93 Car & other machinery repair	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94 Business Service	0.334	0.366	0.376	0.387	0.391	0.393	0.392	0.392	0.393	0.396
95 Amusement service, films, the	0.103	0.119	0.129	0.133	0.135	0.140	0.145	0.155	0.169	0.188
96 Restaurant	0.184	0.218	0.291	0.297	0.303	0.312	0.321	0.337	0.360	0.390
97 Hotel	0.382	0.465	0.603	0.614	0.626	0.645	0.663	0.693	0.738	0.796
98 Personal Service, Washing, Barber, etc.										

Table 7-5 100 Sector Summary of JIDEA Simulation for Japan-China FTA

JIDEA Model 5.1: Simulation2 for Japan-China Mutual Tariff Removal 27/05/2004										
Japanese Exports to China by Industry – 100 Sectors										
	1998	2000	2003	2004	2005	2006	2007	2008	2009	2010
Total Tradables	2.420	2.567	3.224	3.457	3.706	3.975	4.262	4.571	4.902	5.257
1 Agriculture for crops	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2 Livestock raising and sericul	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.001
3 Agricultural services	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4 Forestry and logging	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5 Fishery	0.005	0.011	0.014	0.015	0.016	0.017	0.019	0.020	0.021	0.023
6 Metal ores	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7 Non-metal ores	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002
8 Coal and lignite	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9 Crude petroleum & gas	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10 Food products	0.011	0.012	0.015	0.016	0.017	0.018	0.019	0.021	0.022	0.024
11 Beverages & tobacco	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12 Feeds and organic fertilizers	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002
13 Fabricated textile products	0.174	0.209	0.264	0.282	0.302	0.324	0.347	0.373	0.401	0.431
14 Wearing and other textile pro	0.015	0.021	0.026	0.028	0.030	0.033	0.035	0.037	0.040	0.043
15 Timber and wooden products	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
16 Wooden & Metal Furniture, Fit	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003
17 Pulp and paper	0.036	0.046	0.057	0.061	0.065	0.070	0.075	0.081	0.087	0.093
18 Publishing and printing	0.006	0.006	0.008	0.008	0.009	0.009	0.010	0.011	0.012	0.012
19 Chemical fertilizer	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002
20 Inorganic basic chemical	0.008	0.009	0.011	0.012	0.013	0.014	0.015	0.016	0.017	0.018
21 Petrochemical basic products	0.012	0.013	0.017	0.018	0.019	0.020	0.022	0.023	0.025	0.027
22 Organic chemical products	0.039	0.042	0.052	0.056	0.060	0.064	0.069	0.074	0.079	0.085
23 Synthetic resin	0.069	0.087	0.108	0.116	0.124	0.133	0.143	0.153	0.164	0.176
24 Chemical fibers	0.022	0.025	0.031	0.034	0.036	0.039	0.042	0.045	0.048	0.051
25 Medicaments	0.005	0.006	0.007	0.008	0.008	0.009	0.010	0.010	0.011	0.012
26 Final chemical products	0.040	0.045	0.056	0.060	0.064	0.069	0.074	0.079	0.085	0.091
27 Petroleum refinery products	0.139	0.144	0.178	0.191	0.205	0.220	0.236	0.253	0.271	0.291
28 Coal products	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29 Plastic products	0.030	0.039	0.049	0.053	0.057	0.061	0.066	0.070	0.075	0.081
30 Rubber products	0.008	0.009	0.012	0.013	0.014	0.015	0.016	0.017	0.018	0.019
31 Leather & Fur products	0.005	0.005	0.007	0.007	0.008	0.008	0.009	0.009	0.010	0.011
32 Glass and glass products	0.018	0.023	0.030	0.032	0.034	0.037	0.040	0.042	0.045	0.049
33 Cement and cement products	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
34 Pottery, tiles and earthenwar	0.014	0.014	0.018	0.019	0.021	0.022	0.024	0.025	0.027	0.029
35 Other ceramic, stone and clay	0.013	0.015	0.019	0.020	0.021	0.023	0.024	0.026	0.028	0.030
36 Pig iron and crude steel	0.009	0.009	0.011	0.012	0.012	0.013	0.014	0.015	0.016	0.018
37 Steel bar and sheet	0.157	0.135	0.170	0.182	0.195	0.209	0.224	0.240	0.258	0.276
38 Steel castings and forging	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003
39 Non-ferrous metals refinery p	0.016	0.019	0.023	0.025	0.027	0.029	0.031	0.033	0.036	0.038
40 Processed non-ferrous metal p	0.042	0.052	0.065	0.069	0.074	0.080	0.086	0.092	0.098	0.105
41 Metal products for constructi	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004
42 Heating equipment	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003
43 Other metal products	0.033	0.036	0.045	0.048	0.052	0.055	0.059	0.064	0.068	0.073
44 General Machinery	0.084	0.072	0.091	0.097	0.104	0.112	0.120	0.128	0.138	0.147
45 Machine Tool & Robot	0.072	0.073	0.090	0.097	0.104	0.111	0.119	0.128	0.137	0.147
46 Special industry machinery	0.223	0.241	0.300	0.322	0.345	0.370	0.397	0.426	0.457	0.490
47 Other general machines and to	0.049	0.048	0.060	0.064	0.069	0.074	0.080	0.085	0.092	0.098
48 Machinery for office and for	0.023	0.019	0.023	0.025	0.027	0.029	0.031	0.033	0.035	0.038
49 Machinery for service	0.008	0.011	0.013	0.014	0.015	0.016	0.017	0.019	0.020	0.021
50 Household electric & electror	0.136	0.148	0.183	0.197	0.211	0.226	0.242	0.260	0.279	0.299
51 Electronic computing equipmer	0.022	0.015	0.018	0.020	0.021	0.023	0.024	0.026	0.028	0.030
52 Communication equipment	0.012	0.011	0.014	0.015	0.016	0.017	0.018	0.019	0.021	0.022
53 Electronic appliances & measu	0.055	0.056	0.071	0.076	0.081	0.087	0.094	0.100	0.108	0.115
54 Semi-conductor devices and ir	0.208	0.219	0.276	0.296	0.317	0.340	0.365	0.391	0.419	0.450
55 Electronic Parts	0.109	0.110	0.139	0.149	0.159	0.171	0.183	0.196	0.211	0.226
56 Heavy electrical equipment, C	0.109	0.088	0.110	0.117	0.126	0.135	0.145	0.155	0.166	0.179
57 Electric illuminator, batteri	0.135	0.168	0.211	0.226	0.243	0.261	0.279	0.300	0.322	0.345
58 Motor vehicle	0.140	0.129	0.174	0.187	0.200	0.215	0.230	0.246	0.263	0.282
59 Ships and repair of ships	0.018	0.018	0.023	0.024	0.026	0.028	0.030	0.032	0.034	0.037
60 Railway equipment	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
61 Air plane & repair	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
62 Other transportation equipmer	0.005	0.005	0.006	0.007	0.007	0.008	0.008	0.009	0.010	0.010
63 Precision instruments, Medica	0.043	0.041	0.051	0.055	0.059	0.064	0.068	0.073	0.078	0.084
64 Miscellaneous manufacturing p	0.033	0.052	0.065	0.069	0.075	0.080	0.086	0.092	0.099	0.107

