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## Policy Simulations with an Integrated Model for Japan and Northeast Asia

by

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#### 1. Introduction

In view of the growing importance of Northeast Asia in the 21<sup>st</sup> century world economy, an empirical study was conducted in the Leontief – Keynesian framework under the support of the National Institute for Research Advancement (NIRA).

The study covers Japan, and seven Northeast Asian countries including China, Hong Kong, Taiwan, Republic of Korea (ROK), North Korea (PDRK), Mongolia, and Russia with two sub-regions for Northeast China and the Russian Far East. These submodels are attached to the above main system, because of their growing mutual inter-dependence with Japan. The above country models are linked with each other as shown below by means of a trade matrix specifically designed for this region.

Regarding the specifications of the country models, Japan's model (DEMIOS) is exceptionally large in terms of sector divisions, with 81 sectors, and in the number of behavioral equations, covering detailed fiscal and monetary variables. The total numbers of endogamous variables are about 4,000. For other countries, the specifications of each model are fairly standardized, having 5 common sectors for output, employment, capital stock, etc. and common aggregate expenditure variables such as private consumption, investment, exports, etc. Prices and wage rates are also endogenized. In view of the recent changes in demographic trends, total population, fertility and death rates, age components, emigration, etc. are all endogenized in each country model. Particular attention is paid with respect to the interdependence between economic growth and demographic changes. The original version of these country models, with a trade linkage (NAMIOS), was developed by the Economic Research Institute of Northeast Asia (ERINA) in Niigata in 1998 [2] and the present version is an extended version renewed on an updated data basis.

#### Flow Chart of International Model



#### 2. Japan's Model (DEMIOS)

The original version of this multi-sector model was constructed in 1997 on a project which was carried out under the collaboration of the Project LINK of university of Pennsylvania on a 64-sector basis, covering both sector output, employment, investment, etc., with a market adjustment mechanism for prices and wage rates as well as ordinary macroeconomic variables related to fiscal and momentary policy. [1]

The model is known as the NIRA-LINK Model because of its historical background. The present version is an extended one with a larger sectional breakdown, i.e. 81 sectors and more elaborate fiscal and monetary sectors such as public sectors including central, local and social insurance, and monetary sectors including security stock markets. The demographic variable block, though slightly simplified as compared with its predecessor, covers all major demographic variables. The basic characteristics of the previous model, the NIRA-LINK model, especially the V-RAS system representing flexible input-output coefficients including primary factors, are retained and are further elaborated in DEMIOS. Detailed analysis was conducted with special reference to sector changes in TFP in the framework of the V-RAS system.[4] [5] [6]

An essential feature of this V-RAS system is to integrate input-output coefficients, including primary factors, in the framework of rectangular matrix as shown bellow and to analyze both individual coefficients and total factor productivity (TFP) in each column and at the same time to trace output price repercussions in each row from the upper to the lower stream. The system is summarized as below, unlike the ordinary input-output matrix of intermediate input, the V-RAS matrix is rectangular with more number of row than that of column, since it also covers primary factors such as services of labor, capital, land, etc.

$$a_{kj}^{*} = \begin{bmatrix} a_{11} \cdots a_{1n} \\ \vdots \\ a_{n1} \cdots \\ a_{nm} \\ v_{11} \cdots \\ v_{1n} \\ \vdots \\ v_{m1} \cdots \\ v_{mn} \end{bmatrix}$$
(1)

Total value of inputs represents a reciprocal of TFP (  $_{j}$  )as shown below.

$$\tau_{j} = \frac{1}{\sum_{k=1}^{k} a_{kj}} \qquad (k = 1, 2, ..., n+m) (j = 1, 2, ..., n) \qquad (2)$$

All values are shown in terms of constant prices at base year, implying j = 1. The V-RAS formula and parameters for inter-factor substitution **r**, total savings **s**, and cost-price relations are formulated below in equations (3) to (10).

$$\hat{a}_{kj}^* = r_k \hat{a}_{kj} s_j \tag{3}$$

$$S_{j} = f\left(\frac{1}{\tau_{j}}, \cdots\right)$$
(4)

$$\Gamma_k = [\Gamma_i; \Gamma_s]$$
 (i = 1,...,n) (s = 1, ..., m) (5)

$$\boldsymbol{r}_i = f(\hat{\boldsymbol{p}}_i, \cdots) \tag{6}$$

$$\hat{p}_{i} = \frac{\left(p_{i} \neq \overline{p}_{i}\right)}{\left(\tilde{p}_{i} \neq \overline{p}_{i}\right)}$$

$$\tag{7}$$

$$p_{\boldsymbol{i}} = (1 - \mu_{\boldsymbol{i}}) p_{\boldsymbol{X}, \boldsymbol{i}} + \mu_{\boldsymbol{i}} p_{\boldsymbol{M}, \boldsymbol{i}}$$
(8)

$$p_{x,j} = \sum_{i} a_{ij} p_i + p_{v,j}$$
(9)

$$p_{\nu,j} = \sum_{s} v_{k,j} p_{f,s} + \pi_j$$
(10)

Where  $a_{kj}^* =$  input-output coefficient of a rectangular matrix including primary factors (V) for base year,  $\hat{a}_{kj}$  = base year I-O coefficient,  $_j$  = total factor productivity of j<sup>th</sup> sector,  $r_k$  = substitution parameter of k<sup>th</sup> sector,  $s_m$  = efficiency parameter of j<sup>th</sup> sector,  $s_m$  = efficiency parameter of j<sup>th</sup> sector,  $p_x$  = output price,  $p_m$  = input price, p = average of p<sub>x</sub> and p<sub>m</sub>, p = average of p<sub>x</sub> and p<sub>m</sub>,  $\mu$  = import dependency,  $\hat{p}$  = average import price, p = base year price.

While equations (3) to (5) are related to total input, including primary inputs, equations (6) and (7) are related only to intermediate inputs.  $S_i$  and  $r_i$  are derived from the annual I-O table in constant prices and estimated for forecasting by using equations (4) and (6) by ordinary least squares, where i and  $\mathbf{\dot{p}}_i$  play significant

roles respectively. The  $r_s$ , substation parameter for primary inputs, also derived from the V-RAS formula, was used for important indicators for the demand functions of primary inputs. A direct spectral approach to primary factor demand, however, was taken by using conventional methods for factor demand functions on a sectional basis, as described later.

Regarding the production side, derived as a dual price-cost relationship, the following system is formulated on the basis of the conventional Leontief model.

$U_i = a_{ij} \cdot X_j$	(11)
$D_i = U_i + F_i + E_i$	(12)
$X_i = D_i  M_i$	(13)
$M_i = f(D_i, p_{mi}/p_n)$	(14)
$U_{ij} = \sum_{i} a_{ij} X_j$	(15)
$Z_j = U_{rj} + \overline{w}_j \cdot L_j + \overline{p}_{kj} \cdot K_j + \overline{p}_{aj} \cdot A_j$	(16)
$\tau_j = X_j / Z_j$	(17)

Where  $U_i$  = intermediate demand,  $U_r$  = intermediate input,  $D_i$  = demand total,  $F_i$  = final demand,  $E_i$  = exports,  $M_i$  = imports,  $K_i$  = capital stock,  $A_i$  = land,  $Z_j$  = total input.

All the equations related to supply and demand variables are price sensitive, thus being affected by sectional changes in TFP and feign prices as well as market conditions. Unlike conventional specifications for business investment, one of the features of the present model is government investment in social overhead which is significant with a two or three year time lag for important private sectors such as agriculture, basic manufacturing, public utilities, etc. Private housing investment is also partly dependent on government investment such as highway access, renewal of urban facilities, etc. This explicit consideration of forward linkages of the I-O model of public sectors, providing for the external economy, is one of the important features of the present Japanese model.

Regarding labor demand, the specialization of the predecessor model, the log linear functions, with output and relative wage rates as explanatory variables, are inherited. These factor demand equations are summarized as below.

$$L_{j} = f[X_{j}, W_{j} / PX_{j}, L_{j-1}]$$
(18)

$$KP_j = Ip_j \quad DP_j + KP_{j-1} \tag{19}$$

$$IP_{j} = f[X_{j}, KP_{j-1}, INTGB_{-1}, PX_{j} / PZ_{j}, IG_{-i}]$$

$$(20)$$

Where  $L_j$  = employment,  $W_j$  = wage rate,  $PX_j$  = producer price,  $PZ_j$  = input price,  $KP_j$  = capital stock,  $IP_j$  = business investment,  $DP_j$  = deprecation, INTGB = long-term interest rate, IG = government investment by type.

Finally, producer prices, as shown below, are determined by total input price, proxy rate of capacity utilization, unemployment rate, exchange rate, etc.

$$l_n P X_j = f [l_n P Z_j, l_n (K P_{j-1} / X_{j-1}), l_n U R A T E, l_n E X R_{-1}, l_n P X_{j-1}]$$
 (21)

Where  $PX_j$  = producer price,  $PZ_j$  = input price of all factors, URATE = unemployment rate, EXR = exchange rate ( $\frac{Y}{S}$ ).

At an aggregate level the potential GDP<sup>C</sup> was estimated in order to evaluate the rate of operation, i. e., (=GDP/ GDP<sup>C</sup>). The aggregate production function was estimated which includes the scale effect and technical progress symbolized as TFP. The Cobb-Douglas type was estimated by using private fixed capital stock, labor inputs, the unemployment rate, and time trends, and the result was normalized in terms of working hours and the unemployment rate to obtain the vale of capacity GDP.

Regarding the macroeconomic block, more elaborate improvements were carried out for the fiscal and monetary sub-blocks. The public sector is divided into central government, local government and social insurance, and financial assets and liabilities as well as various types of expenditures and transfer payments are specified and endogenized. For the monetary block, the stock price index and exchange rates are newly endogenized and the relationship between fiscal and monetary blocks are more closely elaborated through the monetary policy of the central bank and national debt management of the central government. In view of the growing importance of the changes in demographic structure, especially regarding the aging issue, the equations on demographic variables such as fertility and mortality rates, the proportion of elderly people, the rate of international migration, etc. are strengthened on an improved data basis and with improved specifications. As noted later, one of the important findings is that demographic trends are closely related to economic growth.

#### 3. Northeast Asian Country Models (NAMIOS):

The coverage of the NAMIOS has been extended to new members, i.e., Hong Kong and Taiwan, thus now numbering nine countries.

As in the previous model, common specifications are applied in each country model. Production and employment are divided into five sectors, i.e., agriculture, mining, manufacturing, construction, and services, as previously noted. Exceptionally, however, some sectors are aggregated due to the data limitations.

Regarding investment and capital stock, all countries have investment functions by sector, but capital stock by sector is only available in China where production functions are also estimated by sector on the basis of labor and capital stock series. Capacity output and the rate of utilization of total production at the aggregate level is also available in China, but not for other countries. The rate of unemployment, however, is available for all country models which is used as a prox variable of supply side constraint.

As noted earlier, the interdependence between economic growth and demographic trend are explicitly endogenized in each country model. Particularly important are the rates of fertility and net migration, which are sensitive to the employment opportunity and the expectation on income growth in the longer period than conventionally by expected.

Common categories are also used on the expenditure side, which are linked to the input-output system with the Leontief framework. This I-O counterpart of NAMIOS is divided into 35 sectors for output and foreign trade. Although the above two new countries, Hong Kong and Taiwan, are still excluded, China and Russia are divided respectively into Northeast China and the rest of China, and the Russian Far East and the rest of Russia. This multiregional I-O model (7x7) covering most of Northeast Asia is originally based on a 1995 table estimated by ERINA in 1998. [3] The model is constructed in the Chenery-Moses type on a 35-sector basis for each

country and sub-region. Structural changes are analyzed for the period between 1995 and 2010 as shown in Table 3.

#### 4. Policy Simulation

#### (Long Term simulations)

In the following we present two types of policy simulations. The first one is related to long-term simulations for the period: 2000-2020, by using NAMIOS, while the second one concentrates on medium-term simulations by using an integrated model of DEMIOS and NAMIOS for the period: 2002-2010.

In both cases, common policy assumptions are used: a) base line, b) China's growth acceleration, c) Japan's growth acceleration, and d) world chronic recession.

A caution is needed in this context that the Japan's model (DEMIOS) is used only for the medium-term analysis and that only Japan's imports are exogenously assumed in the case of NAMIOS forecast for the long-term simulation.

This idea is derived from the DEMIOS's assumption of GDP growth at about 4% with a more liberal import policy.

In Table-1 and Table-2 four alternative long-term scenarios are presented. The first scenario relates to the result of forecasts based on the simple extrapolation of exogenous variables. The results of this base line scenario are indicated in terms of population, real GDP growth, foreign trade, price levels, etc. during the 20 years between 2000 and 2020. Indicating relatively faster growth of GDP and foreign trade, China continues to be ahead in terms of its annual rate of increase, while Japan still remains in a mild deflationary trend. The disparity ratios remain almost unchanged in terms of the growth rate of GDP among China, Japan, South Korea, and other countries in the region. China tends to gradually overtake Japan in terms of exports though in around 2015.

The second scenario is related to the case of the Chinese accelerated rate of growth with more active fiscal policy and foreign direct investment. The actual performance over recent years seems to be nearer to this scenario, since the growth rate of real GDP has further accelerated by nearly 1% and a similar trend is observed in foreign trade, overtaking Japan significantly. The expansionary impact on South Korea, Taiwan, Russia and other neighboring countries is also noticeable. Regarding the trend of prices in China, its inflationary impact still remains modest without any indication of further acceleration. Similarly, no indication of excessiveness is observed in terms of the GDP gap and foreign trade balance despite the acceleration of growth. The impact on Japan is also noticeable in terms of its exports, rising to 3.1% from 2.9% in the base line scenario.

The third scenario indicates a case where the Japanese economy accelerates in growth to about 4%, recovering from the chronic deflationary trend which has continued for more than ten years. Real imports are also assumed to rise by 5.5%. The impact is significant, though not as high as in the second case, having a strong effect on every region of Northeast Asia. Particularly noteworthy is the impact on two regions, Northeast China and the Russian Far East, the effects being greater than in the second scenario, as shown in Table 2. It is also noteworthy that China tends to accelerate in growth due to financial and technical collaboration from Japan, which is assumed in this scenario. [5]

The last scenario is less optimistic, assuming a reduction in world trade caused by chronic stagnation in the United States, Japan, and the rest of the world. A deceleration in terms of growth in the United States is assumed to continue due to twin-deficits in fiscal and trade balances. Negative economic impact is widely observed in this scenario in almost all of the regions in the Northeast. Population also tends to decrease in many regions, which further accelerates a downward trend in aggregate demand. It is noted, however, that the Chinese decline remains modest, despite strong downward trends in other regions. This is mostly accounted for by the fact that Chinese dependence on foreign trade is relatively modest.

Regarding the export performance in Table 3-1, China overtakes Japan, becoming the second, next to the United States, in 2010 in both cases of China's growth acceleration and Japan's growth acceleration scenarios, and in 2015 and 2020 for the base line and the world recession scenarios, respectively. With respect to imports in Table 3-2, however, Japan keeps the present second rank until 2020 in the Japan's growth acceleration scenario, while China becomes the second in 2010 for all other scenarios.

As for demographic trends in Table 3-3, it is generally observed that the causes due to the aging issue tend to decelerate almost all the countries in the region. The economic growth, however, tends to affect positively their demographic trends in most countries such as China, Hong Kong, S. Korea, Mongolia, etc. through the improvement of the employment opportunity and living conditions, as typically shown in the China's growth acceleration scenario. Also noteworthy are the impacts of migration which negatively affected the demographic trend in Taiwan.

Turning to the more sectoral aspects from the macro economic side shown above, various findings are observed from the multi-sector input-output model for the Northeast region as shown in Table 4. After tentatively updating the multi-regional input-output table for 1995 prepared by ERINA, a Leontief type model based on the table is used for forecasting for 2010. The model has 34 sectors for each of the 7 regions which cover 5 countries, excluding Hong Kong and Taiwan, and the 2 sub-regions mentioned above. The model enables structural analysis of the Northeast region during the 15 years between 1995 and 2010 as shown in the table. It is generally observed that the share of agriculture, forestry and fishery and light manufacturing tends to decline and there is a marked shift to heavy industry, particularly machinery industries with higher value-added ratios. Also noteworthy is a rising tendency, marking more than four times, for steel, non-ferrous metals, electric machinery and transport equipment. Even among light manufacturing industries a significant rising trend is observed for textiles, apparels, household utensils, sundry goods, etc. What is especially noted is the role of foreign direct investment, which contributes to the promotion of productivity, thus accelerating exports. This rapid increase in terms of the share of Chinese exports is already mentioned above in the context of the trade matrix.

Northeast China is no exception, showing a similar trend, particularly for steel, electric machinery and transport equipment. A rising trend is also noticeable for crude oil and natural gas, which tend to grow faster than in other Chinese districts. A long-term dynamic growth in industrial structure is also noteworthy in South Korea, though its pace is slightly below that of China. Particularly noted is the high pace of growth in IT industries with rapid technological progress. Rising shares are noted in transport equipment and precision industries. Russia is relatively behind in economic growth though showing relative advantages in forestry, coal, crude oil and natural gas, metal mining, steel and non-ferrous metals, etc. This trend is particularly noted in the Russian Far East where there are signs of remarkable progress especially in agriculture, forestry, crude oil and natural gas, food, lumber, household utensils, paper and pulp, non-ferrous metals, and construction, etc.

Although the above trend is commonly observed in each scenario, there are delicate, interesting differences that deserve attention. In the second scenario of Chinese growth acceleration, sectors related to investment such as in construction steel and non-ferrous metals, tend to propagate all kinds of growth in machinery, impacting related countries such as Japan, Southeast countries, the United States and the EU, etc. in terms of demand for steel, construction machinery, etc.

In the third scenario of Japan's growth acceleration, particularly noted are consumption goods in the rest of China such as textiles, apparels, sundry goods, household utensils, etc. Also showing remarkable increases are pulp and paper, and printing and publishing in Northeast China, in addition to the general expansion observed in the rest of China. For other districts where there is a similar impact such as that in China, particularly noteworthy are increases in crude oil, natural gas, petroleum products, steel, etc. in the Russian Far East.

The fourth scenario of world trade decline due to chronic recession indicates a general falling tendency in particular export related industries such as textiles and apparels in South Korea and China. These construction industries are generally the least affected due to dependence on domestic demand.

#### (Medium Term Simulation)

Now we turn to more detailed annual changes up to 2010 by using our integrated model in which Japan is completely endogenized to analyze the mutual interdependence between Northeast Asia and Japan. Particularly important is the feedback effect from Northeast Asia to Japan, which is not fully endogenized in the long-term simulations discussed above.

Tables 5-1, 5-2, and 5-3 indicate the levels of real GDP, real exports, real imports for Northeast Asian countries, including Japan.

A similar pattern of sensitivity\_to the long-term simulation for the period between 2002 and 2010 are generally observed. Since, however, Japan's simulations with DEMIOS start from 2003, unlike other countries which start from 2001, these differences need to be adjusted for comparability. In Table 6 the results of this adjustment are indicated in which Japanese figures are related to 2010 while those for other countries are related to 2008, thus the imports become comparable in the 7<sup>th</sup> year.

A remarkable difference becomes noticeable in this table as compared with the long-term simulations.

As compared with base line simulation, the imports under Japan's growth acceleration indicate significantly higher values than in China's growth acceleration which is generally dominant over Japan in the long term simulation. This tendency is observed especially in terms of GDP and imports.

The results of the DEMIOS simulation for Japan's growth acceleration are summarized in Table 7. As against a base line simulation of about 0.7% of GDP growth, the acceleration simulation assumes about a 10-15% growth rate in public investment, strong financial support to business investment, and housing investment of about 2% of GDP, resulting in a higher 2003 to 2010. The unemployment rate declines significantly from about 5% to 3.8%, while the rate of capacity utilization rises from 92% to 100%, 15% higher than the base line scenario in 2010. Total imports also keep rising, reaching a level 13% higher than the base line.

This indicates a significant increase in tax revenues, and the ratio of net government debt against nominal GDP also improves from 1.32 to 1.14.

In Table 7-2, sectoral changes in output and imports are summarized for major sectors. Particularly noteworthy are the sectors heavily related to public and private investment in terms of output. As compared with the base line scenario, raw material sectors such as forestry, lumber, non-metallic mineral products, cement, glass, plastic products, and metal products are also significantly affected. General machineries and electrical machinery also strongly increase, but most noticeable impacts are found in construction sectors, such as public work, residential and non-residential construction, etc. Sectors related to private consumption such as foods, textiles and apparels, etc. are positively affected. Particularly noteworthy are information related service sectors which contribute to Japan's general growth acceleration.

Regarding imports which tend to stimulate exports from Northeast Asia, energy and raw materials are most important items as indicated in the table. Particularly noteworthy are crude oil, significantly from the Russian Far East; non-ferrous metallic ores, including those from Mongolia; non metal ores; ceramic products; steel, mostly from South Korea; and metal products. Capital goods including IT related products, mostly from Taiwan, South Korea and China, show a rising tendency.

In conclusion, from the above scenario of Japan's growth acceleration, it is suggested that there is no more horizontal trade linkage as observed during the 1980's, but a more hybrid relationship of horizontal and vertical division of labor becoming dominant, and this new trend has been strengthened by global capital movement, especially foreign direct investment since the 1990's, the post cold war period.

#### (Concluding Remarks)

As suggested in the above scenarios, the growing interdependence in Northeast Asia indicates relative advantages of mutual collaboration in terms of the promotion of infra-structure, environmental protection, energy saving technology by foreign direct investment, FTA agreements and trade liberalization, etc., and while these suggested areas for collaboration seem to be rapidly expanding, it should also be emphasized that the Northeast Asian contribution to the world economy is steadily growing as one of the engines for global development. This fact should not be under-emphasized, as well as the growing need for international collaboration within and outside of Northeast Asia.[7]

#### References

- Shishido, S. and N.Nakamura (1992), "Induced Technical Progress and Structural Adjustment: A Multi-Sectoral Approach to Japan's Growth Alternatives", *Journal* of Applied Input-Output Analysis, Vol. 1, pp. 1-23.
- 2. Shishido, S. et al. (1999), "A Multiregional Econometric Model for Northeast Asia (NAMIOS I): Estimation and Policy Analysis", *The Journal of Econometric Study of Northeast Asia (JESNA)*, Vol. 1 No.1 March 1999
- Shishido, S. et al. (2000), "A Multiregional Input-Output Table for Northeast Asia 1995: Compilation and Analysis", *The Journal of Econometric Study of Northeast Asia (JESNA)*, Vol. 2, No. 1.
- Shishido, S. et al. (2002) A Study of Interindustry Dynamic Model for Medium and Long Term Forecasting, Japan Industrial Policy Research Institute, Tokyo. (in Japanese)
- Shishido, S., O. Nakamura, N. Minato, M. Kurokawa, A. Kawakami (2003) "Japanese ODA to China and Indonesia in the Context of FDI – A Comparative Multisectoral Approach", *The Journal of Econometric Study of Northeast Asia* (JESNA), Vol. 4 No.2 June 2003
- 6. Shishido, S. (2004), "Searching for Best Policy Scenarios", *Economist* August 24,

The Mainichi. (in Japanese)

 Wu, G., J. Nemoto, S. Kinoshita(2004)., "Effects of International Trade, FDI and Environmental Regulation on Sustainable Development: China Data", *The Journal of Econometric Study of Northeast Asia (JESNA)*, Vol.5 No.1 October 2004

#### Table-1 **Alternative Scenarios : GDP**

Base Line

							20 years
		2000	2005	2010	2015	2020	average
China	level	5,248	7,228	8,931	11,487	15,402	9,659
	annual rate(%)		6.6	4.3	5.2	6.0	5.5
Hongkong	level	998	1,612	1,580	1,924	2,333	1,689
	annual rate(%)		10.1	-0.4	4.0	3.9	4.3
South Korea (ROK	level	486,745	685,900	892,600	1,138,070	1,438,155	928,294
	annual rate(%)		7.1	5.4	5.0	4.8	5.6
Mongolia	level	585,874	802,695	840,447	1,024,082	940,466	838,713
	annual rate(%)		6.5	0.9	4.0	-1.7	2.4
North Korea	level	1,620	1,972	2,363	2,907	2,820	2,336
	annual rate(%)		4.0	3.7	4.2	-0.6	2.8
Taiwan	level	9,199	11,964	14,027	17,095	20,878	14,633
	annual rate(%)		5.4	3.2	4.0	4.1	4.2
Russia	level	461	464	482	506	534	489
	annual rate(%)		0.1	0.8	1.0	1.1	0.7

#### China's Growth Acceleration

							20 years
		2000	2005	2010	2015	2020	average
China	level	5,248	7,805	10,673	13,931	18,913	11,314
	annual rate(%)		8.3	6.5	5.5	6.3	6.6
Hongkong	level	998	1,643	1,670	2,002	2,447	1,752
	annual rate(%)		10.5	0.3	3.7	4.1	4.6
South Korea (ROK	level	486,745	693,007	932,605	1,217,330	1,566,506	979,239
	annual rate(%)		7.3	6.1	5.5	5.2	6.0
Mongolia	level	585,874	803,591	851,446	1,055,393	990,521	857,365
	annual rate(%)		6.5	1.2	4.4	-1.3	2.7
North Korea	level	1,620	1,972	2,374	2,936	2,874	2,355
	annual rate(%)		4.0	3.8	4.3	-0.4	2.9
Taiwan	level	9,199	12,120	14,710	18,275	22,747	15,410
	annual rate(%)		5.7	3.9	4.4	4.5	4.6
Russia	level	461	465	485	512	545	494
	annual rate(%)		0.2	0.9	1.1	1.2	0.8

#### Japan's Growth Acceleration

							20 years
		2000	2005	2010	2015	2020	average
China	level	5,248	7,272	9,195	12,080	16,480	10,055
	annual rate(%)		6.7	4.8	5.6	6.4	5.9
Hongkong	level	998	1,616	1,606	1,959	2,390	1,714
	annual rate(%)		10.1	-0.1	4.0	4.1	4.5
South Korea (ROK)	level	486,745	687,594	911,260	1,183,227	1,521,518	958,069
	annual rate(%)		7.2	5.8	5.4	5.2	5.9
Mongolia	level	585,874	802,752	843,842	1,036,841	965,675	846,997
	annual rate(%)		6.5	1.0	4.2	-1.4	2.6
North Korea	level	1,620	1,972	2,371	2,929	2,864	2,351
	annual rate(%)		4.0	3.8	4.3	-0.4	2.9
Taiwan	level	9,199	11,992	14,288	17,673	21,939	15,018
	annual rate(%)		5.4	3.6	4.3	4.4	4.4
Russia	level	461	464	483	509	541	492
	annual rate(%)		0.1	0.8	1.0	1.2	0.8

#### World Recession

							20 years
		2000	2005	2010	2015	2020	average
China	level	5,248	6,948	8,337	10,564	13,999	9,019
	annual rate(%)		5.8	3.7	4.8	5.8	5.0
Hongkong	level	998	1,480	1,359	1,644	1,910	1,478
	annual rate(%)		8.2	-1.7	3.9	3.0	3.4
South Korea (ROK)	level	486,745	662,118	826,680	1,017,679	1,248,651	848,375
	annual rate(%)		6.3	4.5	4.2	4.2	4.8
Mongolia	level	585,874	801,306	832,614	1,005,556	912,484	827,567
	annual rate(%)		6.5	0.8	3.8	-1.9	2.3
North Korea	level	1,620	1,969	2,350	2,880	2,774	2,319
	annual rate(%)		4.0	3.6	4.2	-0.7	2.7
Taiwan	level	9,199	11,580	13,141	15,538	18,420	13,576
	annual rate(%)		4.7	2.6	3.4	3.5	3.5
Russia	level	461	461	474	491	512	480
	annual rate(%)		0.0	0.5	0.7	0.8	0.5

Note: currency unit: China: 1990 B yuan, HongKong: 1990 M HK\$, South Kore a: 1995 B won, Mongolia: 1990 M tugrik, North Korea: 1995 B won, Russia: 1997 B ruble, Taiwan: 1996 B T\$

## Table-2China's Northeast 3 Provinces and Russian Far East : 4 Scenarios

#### **China's Northeast 3 Provinces**

	2000	2005	2010	2015	2020	Average
Base Line	4638	6,522	9,137	12,605	17,393	
		7.1	7.0	6.6	6.7	6.83
China's Growth Acceleration	4,638	6,647	9,454	12,980	17,809	
		7.5	7.3	6.5	6.5	6.96
Japan's Growth Acceleration	4,638	6,662	9,506	13,025	17,846	
		7.5	7.4	6.5	6.5	6.97
World Recession	4,638	6,531	9,162	12,648	17,454	
		7.1	7.0	6.7	6.7	6.85

#### **Russian Far East**

	2000	2005	2010	2015	2020	Average
Base Line	16.8	32.9	36.7	41.3	46.8	
		14.4	2.2	2.4	2.5	1.78
China's Growth Acceleration	16.8	33.1	37.2	42.1	47.9	
		14.5	2.4	2.5	2.6	1.87
Japan's Growth Acceleration	16.8	33	37.1	42.2	48.4	
		14.5	2.4	2.6	2.8	1.93
World Recession	16.8	32.1	34.7	37.7	41.3	
		13.8	1.6	1.7	1.8	1.27

## Table 3-1 Exports

2000-2020

#### (1995 mil. U.S. \$)

Base Line							
		2000	2005	2010	2015	2020	20 years average
China	level	306,861	565,592	674,755	858,054	1,076,429	696,338
	annual rate(%)		13.0	3.6	4.9	4.6	6.5
Hongkong	level	239,257	379,779	466,203	572,125	700,519	471,577
	annual rate(%)		9.7	4.2	4.2	4.1	5.5
South Korea (	level	202,453	252,363	309,081	383,947	476,569	324,883
	annual rate(%)		4.5	4.1	4.4	4.4	4.4
Mongolia	level	538	719	889	1,119	1,425	938
	annual rate(%)		6.0	4.3	4.7	5.0	5.0
North Korea	level	1,009	1,211	1,414	1,672	1,988	1,459
	annual rate(%)		3.7	3.2	3.4	3.5	3.5
Taiwan	level	167,050	212,599	252,485	306,826	374,560	262,704
	annual rate(%)		4.9	3.5	4.0	4.1	4.1
Russia	level	110,281	125,658	140,438	158,470	180,058	142,981
	annual rate(%)		2.6	2.2	2.4	2.6	2.5
U.S.A.	level	912,538	1,098,394	1,385,996	1,726,108	2,134,826	1,451,572
	annual rate(%)		3.8	4.8	4.5	4.3	4.3
Japan	level	533,740	617,860	686,022	803,809	949,012	718,089
	annual rate(%)		3.0	2.1	3.2	3.4	2.9
Rest of World	level	5,121,232	5,382,839	7,029,183	8,778,740	11,011,670	7,464,733
	annual rate(%)		1.0	5.5	4.5	4.6	3.9

#### China's Growth Acceleration

							20 years
		2000	2005	2010	2015	2020	average
China	level	306,861	573,253	714,980	934,475	1,208,801	747,674
	annual rate(%)		13.3	4.5	5.5	5.3	7.2
Hongkong	level	239,257	383,352	480,836	597,438	738,363	487,849
	annual rate(%)		9.9	4.6	4.4	4.3	5.8
South Korea (	level	202,453	256,252	327,226	417,610	530,617	346,832
	annual rate(%)		4.8	5.0	5.0	4.9	4.9
Mongolia	level	538	747	1,010	1,339	1,768	1,080
	annual rate(%)		6.8	6.2	5.8	5.7	6.1
North Korea	level	1,009	1,235	1,548	1,945	2,449	1,637
	annual rate(%)		4.1	4.6	4.7	4.7	4.5
Taiwan	level	167,050	215,664	265,895	330,738	412,030	278,275
	annual rate(%)		5.2	4.3	4.5	4.5	4.6
Russia	level	110,281	126,418	143,967	165,042	190,461	147,234
	annual rate(%)		2.8	2.6	2.8	2.9	2.8
U.S.A.	level	912,538	1,113,400	1,468,066	1,890,394	2,409,945	1,558,869
	annual rate(%)		4.1	5.7	5.2	5.0	5.0
Japan	level	533,740	622,019	702,927	832,305	991,722	736,543
	annual rate(%)		3.1	2.5	3.4	3.6	3.1
Rest of World	level	5,121,232	5,382,839	7,029,183	8,778,740	11,011,670	7,464,733
	annual rate(%)		1.0	5.5	4.5	4.6	3.9

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							20 years
		2000	2005	2010	2015	2020	average
China	level	306,861	569,102	702,445	919,146	1,186,510	736,813
	annual rate(%)		13.1	4.3	5.5	5.2	7.1
Hongkong	level	239,257	380,177	469,793	580,784	716,612	477,325
	annual rate(%)		9.7	4.3	4.3	4.3	5.7
South Korea (	level	202,453	253,455	317,698	403,583	512,106	337,859
	annual rate(%)		4.6	4.6	4.9	4.9	4.7
Mongolia	level	538	725	934	1,224	1,618	1,008
	annual rate(%)		6.1	5.2	5.6	5.7	5.7
North Korea	level	1,009	1,224	1,511	1,890	2,377	1,602
	annual rate(%)		3.9	4.3	4.6	4.7	4.4
Taiwan	level	167,050	213,206	257,518	318,419	395,748	270,388
	annual rate(%)		5.0	3.8	4.3	4.4	4.4
Russia	level	110,281	125,848	141,969	162,022	186,510	145,326
	annual rate(%)		2.7	2.4	2.7	2.9	2.7
U.S.A.	level	912,538	1,105,315	1,439,812	1,848,156	2,354,121	1,531,988
	annual rate(%)		3.9	5.4	5.1	5.0	4.9
Japan	level	533,740	618,173	689,624	812,555	965,613	723,941
	annual rate(%)		3.0	2.2	3.3	3.5	3.0
Rest of World	level	5,121,232	5,382,839	7,029,183	8,778,740	11,011,670	7,464,733
	annual rate(%)		1.0	5.5	4.5	4.6	3.9

#### Japan's Growth Acceleration

#### World Recession

							20 years
		2000	2005	2010	2015	2020	average
China	level	306,861	529,826	592,852	719,396	856,311	601,049
	annual rate(%)		11.5	2.3	3.9	3.5	5.3
Hongkong	level	239,257	361,988	420,590	491,194	575,427	417,691
	annual rate(%)		8.6	3.0	3.2	3.2	4.5
South Korea (I	level	202,453	240,713	280,069	332,926	397,032	290,639
	annual rate(%)		3.5	3.1	3.5	3.6	3.4
Mongolia	level	538	692	818	994	1,233	855
	annual rate(%)		5.1	3.4	4.0	4.4	4.2
North Korea	level	1,009	1,157	1,279	1,438	1,633	1,303
	annual rate(%)		2.8	2.0	2.4	2.6	2.4
Taiwan	level	167,050	205,332	234,587	275,420	325,213	241,520
	annual rate(%)		4.2	2.7	3.3	3.4	3.4
Russia	level	110,281	122,518	132,428	144,358	158,388	133,595
	annual rate(%)		2.1	1.6	1.7	1.9	1.8
U.S.A.	level	912,538	1,034,891	1,226,170	1,446,332	1,705,097	1,265,006
	annual rate(%)		2.5	3.5	3.4	3.3	3.2
Japan	level	533,740	601,216	643,625	727,976	829,201	667,152
	annual rate(%)		2.4	1.4	2.5	2.6	2.2
Rest of World	level	5,121,232	5,382,839	7,029,183	8,778,740	11,011,670	7,464,733
	annual rate(%)		1.0	5.5	4.5	4.6	3.9

(1995 mil. U.S. \$)

Base Line						•	
		2000	2005	2010	2015	2020	20 years average
China	level	242,360	388,390	503,249	670,420	904,357	541,755
	annual rate(%)		9.9	5.3	5.9	6.2	6.8
Hongkong	level	254,025	474,570	524,091	648,382	803,481	540,910
	annual rate(%)		13.3	2.0	4.3	4.4	5.9
South Korea (	level	157,513	231,480	309,462	401,957	513,433	322,769
	annual rate(%)		8.0	6.0	5.4	5.0	6.1
Mongolia	level	797	934	1,318	1,464	1,729	1,248
	annual rate(%)		3.2	7.1	2.1	3.4	3.9
North Korea	level	4,625	11,849	16,554	23,086	22,045	15,632
	annual rate(%)		20.7	6.9	6.9	-0.9	8.1
Taiwan	level	131,198	178,800	214,975	268,242	333,920	225,427
	annual rate(%)		6.4	3.8	4.5	4.5	4.8
Russia	level	42,155	42,169	42,219	42,330	42,481	42,271
	annual rate(%)		0.0	0.0	0.1	0.1	0.0
U.S.A.	level	1,389,580	1,585,279	1,934,580	2,359,559	2,876,610	2,029,122
	annual rate(%)		2.7	4.1	4.1	4.0	3.7
Japan	level	392,227	431,050	490,788	558,377	634,847	501,458
	annual rate(%)		1.9	2.6	2.6	2.6	2.4
Rest of World	level	3,859,591	4,196,455	4,864,841	5,639,684	6,537,939	5,019,702
	annual rate(%)		1.7	3.0	3.0	3.0	2.7

#### China's Growth Acceleration

							20 years
		2000	2005	2010	2015	2020	average
China	level	242,360	411,922	593,524	819,892	1,119,213	637,382
	annual rate(%)		11.2	7.6	6.7	6.4	8.0
Hongkong	level	254,025	479,808	543,235	674,808	847,025	559,780
	annual rate(%)		13.6	2.5	4.4	4.7	6.3
South Korea (I	level	157,513	233,634	323,334	430,676	560,292	341,090
	annual rate(%)		8.2	6.7	5.9	5.4	6.6
Mongolia	level	797	950	1,395	1,610	1,957	1,342
	annual rate(%)		3.6	8.0	2.9	4.0	4.6
North Korea	level	4,625	11,860	16,693	23,444	22,707	15,866
	annual rate(%)		20.7	7.1	7.0	-0.6	8.5
Taiwan	level	131,198	181,490	226,791	288,686	366,268	238,887
	annual rate(%)		6.7	4.6	4.9	4.9	5.3
Russia	level						
	annual rate(%)						
U.S.A.	level	1,389,580	1,585,279	1,934,580	2,359,559	2,876,610	2,029,122
	annual rate(%)		2.7	4.1	4.1	4.0	3.7
Japan	level	392,227	444,356	587,984	775,700	1,021,038	644,261
	annual rate(%)		2.5	5.8	5.7	5.7	4.9

							20 years
		2000	2005	2010	2015	2020	average
China	level	242,360	389,465	515,466	702,145	965,563	563,000
	annual rate(%)	1	10.0	5.8	6.4	6.6	7.2
Hongkong	level	254,025	474,982	529,096	658,196	822,516	547,763
	annual rate(%)	1	13.3	2.2	4.5	4.6	6.1
South Korea (	level	157,513	231,925	315,850	418,072	543,610	333,394
	annual rate(%)	1	8.0	6.4	5.8	5.4	6.4
Mongolia	level	797	937	1,346	1,533	1,856	1,294
	annual rate(%)	1	3.3	7.5	2.6	3.9	4.3
North Korea	level	4,625	11,854	16,651	23,361	22,589	15,816
	annual rate(%)	1	20.7	7.0	7.0	-0.7	8.5
Taiwan	level	131,198	179,281	219,472	278,249	352,276	232,095
	annual rate(%)	1	6.4	4.1	4.9	4.8	5.1
Russia	level	42,155	42,170	42,232	42,359	42,535	42,290
	annual rate(%)	1	0.0	0.0	0.1	0.1	0.0
U.S.A.	level	1,389,580	1,585,279	1,934,580	2,359,559	2,876,610	2,029,122
	annual rate(%)	1	2.7	4.1	4.1	4.0	3.7
Japan	level	392,227	444,356	587,984	775,700	1,021,038	644,261
	annual rate(%)	1	2.5	5.8	5.7	5.7	4.9
Rest of World	level	3,859,591	4,196,455	4,864,841	5,639,684	6,537,939	5,019,702
	annual rate(%)	1	1.7	3.0	3.0	3.0	2.7

Japan's Growth Acceleration

#### World Recession

							20 years
		2000	2005	2010	2015	2020	average
China	level	242,360	376,806	472,786	615,064	818,551	505,113
	annual rate(%)		9.2	4.6	5.4	5.9	6.3
Hongkong	level	254,025	447,162	467,062	556,745	656,432	476,285
	annual rate(%)		12.0	0.9	3.6	3.3	4.9
South Korea (	level	157,513	223,681	286,114	358,211	444,073	293,918
	annual rate(%)		7.3	5.0	4.6	4.4	5.3
Mongolia	level	797	917	1,272	1,382	1,601	1,194
	annual rate(%)		2.9	6.8	1.7	3.0	3.6
North Korea	level	4,625	11,810	16,388	22,761	21,492	15,415
	annual rate(%)		20.6	6.8	6.8	-1.1	8.3
Taiwan	level	131,198	172,180	199,606	241,245	291,347	207,115
	annual rate(%)		5.6	3.0	3.9	3.8	4.1
Russia	level	42,155	42,142	42,153	42,215	42,305	42,194
	annual rate(%)		-0.0	0.0	0.0	0.0	0.0
U.S.A.	level	1,389,580	1,524,158	1,771,214	2,057,620	2,389,643	1,826,443
	annual rate(%)		1.9	3.1	3.0	3.0	2.7
Japan	level	392,227	405,018	426,879	449,856	474,004	429,597
	annual rate(%)		0.6	1.1	1.1	1.1	1.0

## Table 3-3 Population

#### Base Line

							20 years
		2000	2005	2010	2015	2020	average
China	level	1,273	1,334	1,375	1,396	1,418	1,359
	annual rate(%	)	0.9	0.6	0.3	0.3	0.5
Hongkong	level	6,661,255	6,956,310	7,792,094	8,115,304	8,530,366	7,611,066
	annual rate(%)	)	0.9	2.3	0.8	1.0	1.2
South Korea (I	level	47,179	48,888	50,633	52,624	54,822	50,829
	annual rate(%)	)	0.7	0.7	0.8	0.8	0.8
Mongolia	level	2,411,402	2,531,252	2,647,720	2,759,158	2,839,834	2,637,873
	annual rate (%	)	1.0	0.9	0.8	0.6	0.8
North Korea	level	22,311,550	22,764,860	24,437,450	25,914,390	23,579,570	23,801,564
	annual rate(%)	)	0.4	1.4	1.2	-1.9	0.3
Taiwan	level	21,518	21,526	21,594	21,594	21,649	21,576
	annual rate(%)	)	0.0	0.1	0.0	0.1	0.0
Russia	level	146	144	142	140	138	142
	annual rate(%)	)	-0.2	-0.3	-0.3	-0.3	-0.3

#### China's Growth Acceleration

							20 years
		2000	2005	2010	2015	2020	average
China	level	1,273	1,334	1,379	1,406	1,428	1,364
	annual rate(%)	)	0.9	0.7	0.4	0.3	0.6
Hongkong	level	6,661,255	6,956,856	7,850,009	8,278,725	8,674,723	7,684,314
	annual rate (%)	)	0.9	2.4	1.1	0.9	1.3
South Korea (F	level	47,179	48,888	50,643	52,728	55,123	50,912
	annual rate(%)	)	0.7	0.7	0.8	0.9	0.8
Mongolia	level	2,411,402	2,531,257	2,648,044	2,761,114	2,845,292	2,639,422
	annual rate(%)	)	1.0	0.9	0.8	0.6	0.8
North Korea	level	22,311,550	22,764,860	24,437,090	25,912,050	23,590,310	23,803,172
	annual rate (%)	)	0.4	1.4	1.2	-1.9	0.3
Taiwan	level	21,518	21,526	21,597	21,597	21,651	21,578
	annual rate(%)	)	0.0	0.1	0.0	0.0	0.0

#### Japan's Growth Acceleration

							20 years
		2000	2005	2010	2015	2020	average
China	level	1,273	1,334	1,375	1,398	1,421	1,360
	annual rate(%)	)	0.9	0.6	0.3	0.3	0.6
Hongkong	level	6,661,255	6,956,315	7,799,982	8,163,422	8,597,186	7,635,632
	annual rate (%)	)	0.9	2.3	0.9	1.0	1.3
South Korea (F	level	47,179	48,888	50,635	52,667	54,973	50,868
	annual rate(%)	)	0.7	0.7	0.8	0.9	0.8
Mongolia	level	2,411,402	2,531,252	2,647,778	2,759,782	2,842,074	2,638,458
	annual rate(%)	)	1.0	0.9	0.8	0.6	0.8
North Korea	level	22,311,550	22,764,860	24,437,330	25,912,410	23,586,120	23,802,454
	annual rate(%)	)	0.4	1.4	1.2	-1.9	0.3
Taiwan	level	21,518	21,526	21,595	21,595	21,650	21,577
	annual rate(%)	)	0.0	0.1	0.0	0.1	0.0

#### World Recession

							20 years
		2000	2005	2010	2015	2020	average
China	level	1,273	1,333	1,373	1,393	1,417	1,358
	annual rate(%)	)	0.9	0.6	0.3	0.3	0.5
Hongkong	level	6,661,255	6,953,277	7,551,975	7,711,083	8,047,761	7,385,070
	annual rate(%)	)	0.9	1.7	0.4	0.9	1.0
South Korea (F	level	47,179	48,888	50,592	52,410	54,318	50,677
	annual rate(%)	)	0.7	0.7	0.7	0.7	0.7
Mongolia	level	2,411,402	2,531,242	2,647,364	2,757,745	2,836,540	2,636,859
	annual rate(%)	)	1.0	0.9	0.8	0.6	0.8
North Korea	level	22,311,550	22,764,830	24,438,970	25,914,300	23,561,180	23,798,166
	annual rate(%)	)	0.4	1.4	1.2	-1.9	0.3
Taiwan	level	21,518	21,526	21,590	21,589	21,644	21,573
	annual rate(%)	)	0.0	0.1	-0.0	0.1	0.0

Note: China:million, Hongkong: one person, S.Korea: million, Mongolia: one person, N. Korea: one person, Taiwan: million,

### Table-4 Output: North East Asia in 2010

#### 4 Scenarios

	Base Line	China	Japan	World
North East China	Dase Line	Accelation	Accelation	Recession
110 Agriculture	18,996	18,809	18,966	19,078
120 Forestry	1,318	1,303	1,315	1,324
130 Fishing	2,200	2,177	2,195	2,209
210 Coal	443	439	442	445
220 Crude oil & gas	906	906	906	906
230 Metal mining	6	6	6	6
290 Non-metal mining	680	680	680	681
301 Food, tobacco	11,437	11,549	11,646	11,487
302 Textiles, apparels	3,978	3,944	3,979	3,997
303 Wood products	577	570	576	579
304 Furniture	568	561	566	570
305 Pulp, paper products	1,021	1,077	1,082	1,024
306 Printing, publishing	155	164	165	155
307 Chemicals	3,495	3,463	3,492	3,511
308 Petroleum, coal produ	2,122	2,117	2,121	2,123
309 Rubber products	168	167	168	169
310 Leather products	330	327	330	331
311 Non-metallic products	948	941	947	952
312 Iron & steel	705	705	705	705
313 Non-ferrous metals	107	106	107	107
314 Metal products	952	942	950	956
315 General machinerv	11.573	11.515	11.570	11.602
316 Electrical machinery	7.225	7,152	7.215	7,258
317 Motor vehicles aircraft	4 450	4 422	4 444	4 461
319 Other transport	990	985	990	993
320 Precision instruments	136	135	136	136
321 Other manufacturing	898	891	897	901
400 Construction	40 544	40 311	40 505	40 648
500 Electricity das	1 643	1 622	1 639	1 652
600 Wholesale & retail trac	21 243	22 228	22 381	21 322
700 Transportation	3 206	3 176	3 207	3 222
800 Communication	121	120	121	122
910 Finance real estate	4 738	4 889	4 931	4 760
920 Other services	29,969	36,023	36 112	30 015
	20,000	00,020	00,112	00,010
		China	lanan	World
		omna	Japan	<b>W</b> OILIG
Other China	Base Line	Accelation	Accelation	Recession
Other China 110 Agriculture	Base Line 165,072	Accelation 191,346	Accelation 169,224	Recession 155,557
Other China 110 Agriculture 120 Forestry	Base Line 165,072 13,425	Accelation 191,346 15,424	Accelation 169,224 13,778	Recession 155,557 12,586
Other China 110 Agriculture 120 Forestry 130 Fishing	Base Line 165,072 13,425 20,083	Accelation 191,346 15,424 23,095	Accelation 169,224 13,778 20,604	Recession 155,557 12,586 18,842
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal	Base Line 165,072 13,425 20,083 7,645	Accelation 191,346 15,424 23,095 8,390	Accelation 169,224 13,778 20,604 7,866	Recession 155,557 12,586 18,842 7,046
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas	Base Line 165,072 13,425 20,083 7,645 6,708	Accelation 191,346 15,424 23,095 8,390 7,075	Accelation 169,224 13,778 20,604 7,866 6,958	Recession 155,557 12,586 18,842 7,046 5,969
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining	Base Line 165,072 13,425 20,083 7,645 6,708 248	Accelation 191,346 15,424 23,095 8,390 7,075 261	Accelation 169,224 13,778 20,604 7,866 6,958 257	Recession 155,557 12,586 18,842 7,046 5,969 221
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359 15,796	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359 15,796 4,559	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359 15,796 4,559 65,577	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 59,528
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal produc	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359 15,796 4,559 65,577 4,579	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760 5,170	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749 4,713	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 59,528 4,236
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal products	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359 15,796 4,559 65,577 4,579 6,318	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760 5,170 6,956	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749 4,713 6,515	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 59,528 4,236 5,778
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal products 309 Rubber products 310 Leather products	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359 15,359 15,359 65,577 4,559 63,18 23,104	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760 5,170 6,956 25,087	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749 4,713 6,515 23,929	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 59,528 4,236 5,778 20,758
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal products 308 Rubber products 310 Leather products 311 Non-metallic products	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359 15,796 4,559 65,577 4,579 6,318 23,104 20,0610	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760 5,170 6,956 25,087 22,253	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749 4,713 6,515 23,929 21,314	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 59,528 4,236 5,778 20,758 18,604
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal products 308 Petroleum, coal products 310 Leather products 311 Non-metallic products 312 Iron & steel	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359 15,796 4,559 65,577 4,579 6,318 23,104 20,610 17,507	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760 5,170 6,956 25,087 22,253 18,596	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749 4,713 6,515 23,929 21,314 18,229	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 59,528 4,236 5,778 20,758 18,604 15,373
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359 15,796 4,559 65,577 4,579 6,318 23,104 20,610 17,507 8,100	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760 5,170 6,956 25,087 22,253 18,596 8,602	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749 4,641 67,749 4,6515 23,929 21,314 18,229 8,435	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 59,528 4,236 5,778 20,758 18,604 15,373 7,111
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359 15,796 4,559 65,577 6,318 23,104 20,610 17,507 8,100 36,641	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760 5,170 6,956 25,087 22,253 18,596 8,602 40,284	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749 4,713 6,515 23,929 21,314 18,229 8,435 37,900	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 59,528 4,236 5,5778 20,758 18,604 15,373 7,111 33,177
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359 15,796 4,559 65,577 4,579 6,318 23,104 20,610 17,507 8,100 36,641 122,793	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760 5,170 6,956 25,087 22,253 18,596 8,602 40,284 45,2001	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749 4,713 6,515 23,929 21,314 18,229 8,435 37,900 126,215	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 59,528 4,236 5,778 20,758 18,604 15,373 7,111 33,177 117,064
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal products 308 Petroleum, coal products 309 Rubber products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 316 Electrical machinery	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359 15,796 65,577 4,579 6,318 23,104 20,610 17,507 8,100 36,641 122,793 175,400	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760 5,170 6,956 25,087 22,253 18,596 8,602 40,284 152,001 194,281	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749 4,713 6,515 23,929 21,314 18,229 8,435 37,900 126,215 181,353	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 4,354 4,354 4,236 5,778 20,758 18,604 15,373 7,111 33,177 117,064 159,279
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal products 308 Petroleum, coal products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 316 Electrical machinery 317 Motor vehicles, aircraft	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359 15,796 4,559 65,577 4,579 6,318 23,104 20,610 17,507 8,100 36,641 122,793 175,400 46,666	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760 5,170 6,956 25,087 22,253 18,596 8,602 40,284 152,001 194,281 56,062	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749 4,713 6,515 23,929 21,314 18,229 8,435 37,900 126,215 181,353 48,031	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 59,528 4,236 5,778 20,758 18,604 15,373 7,111 33,177 117,064 159,279 43,957
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 316 Electrical machinery 317 Motor vehicles, aircrafi 319 Other transport	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359 15,796 4,559 65,577 4,579 6,318 23,104 20,610 17,507 8,100 36,641 122,793 175,400 46,666 14,046	Accelation 191,346 15,424 23,095 8,390 7,075 2,611 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760 5,170 6,956 25,087 22,253 18,596 8,602 40,284 152,001 194,281 194,281 195,6062 16,849	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749 4,713 6,515 23,929 21,314 18,229 8,435 37,900 126,215 181,353 48,031 14,465	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 59,528 4,236 5,778 20,758 18,604 15,373 7,111 33,177 117,064 159,279 43,957 13,203
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 316 Electrical machinery 317 Motor vehicles, aircrafi 319 Other transport 320 Precision instruments	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359 15,796 4,559 65,577 4,579 6,318 23,104 20,610 17,507 8,100 36,641 122,793 175,400 46,666 14,046 19,550	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760 5,170 6,956 25,087 22,253 18,596 8,602 40,284 152,001 194,281 56,062 16,849 21,474	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749 4,713 6,515 23,929 21,314 18,229 8,435 37,900 126,215 181,353 48,031 14,465 20,317	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 59,528 4,236 5,778 20,758 18,604 15,373 7,111 33,177 117,064 159,279 43,957 13,203 17,426
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal products 308 Petroleum, coal products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 316 Electrical machinery 316 Electrical machinery 317 Motor vehicles, aircrafi 319 Other transport 320 Precision instruments 321 Other manufacturing	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,796 4,559 65,577 4,579 6,318 23,104 20,610 17,507 8,100 36,641 122,793 175,400 46,666 14,046 19,550 78,113	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760 5,170 6,956 25,087 22,253 18,596 8,602 40,284 152,001 194,281 56,062 16,849 21,474 83,122	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749 4,713 6,515 23,929 21,314 18,229 8,435 37,900 126,215 181,353 48,031 14,465 20,317 81,250	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 59,528 4,236 5,778 20,758 18,604 15,373 7,111 33,177 117,064 159,279 43,957 13,203 17,426 68,877
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal products 308 Petroleum, coal products 309 Rubber products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 316 Electrical machinery 317 Motor vehicles, aircraff 319 Other transport 320 Precision instruments 321 Other manufacturing 400 Construction	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359 15,796 4,559 65,577 4,579 6,318 23,104 20,610 17,507 8,100 36,641 122,793 175,400 46,666 14,046 19,550 78,113 349,700	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760 5,170 6,956 25,087 22,253 18,596 8,602 40,284 152,001 194,281 56,062 16,849 21,474 83,122 453,496	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749 4,713 6,515 23,929 21,314 18,229 8,435 37,900 126,215 181,353 48,031 14,465 20,317,81,250 359,210	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 59,528 4,236 5,778 20,758 18,604 15,373 7,111 33,177 117,064 159,279 43,957 13,203 17,426 68,877 338,152
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 316 Electrical machinery 317 Motor vehicles, aircraft 319 Other transport 320 Precision instruments 321 Other manufacturing 400 Construction 500 Electricity, gas	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,796 4,559 65,577 4,579 6,318 23,104 20,610 17,507 8,100 36,641 122,793 15,400 46,666 14,046 19,550 78,113 349,700 10,801	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760 5,170 6,956 25,087 22,253 18,596 8,602 40,284 152,001 194,281 56,062 16,849 21,474 83,122 453,496 12,307	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749 4,713 6,515 23,929 21,314 18,259 8,435 37,900 126,215 181,353 48,031 14,465 20,317 81,250 (359,210) 11,094	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 59,528 4,236 5,778 20,758 18,604 15,373 7,111 33,177 117,064 159,279 43,957 13,203 17,426 68,877 338,152 10,070
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 316 Electrical machinery 317 Motor vehicles, aircraft 319 Other transport 320 Precision instruments 321 Other manufacturing 400 Construction 500 Electricity, gas 600 Wholesale & retail trac	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359 15,796 4,559 65,577 4,579 6,318 23,104 20,610 17,507 8,100 36,641 122,793 175,400 46,666 14,046 19,550 78,113 349,700 10,801 155,704	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760 5,170 6,956 25,087 22,253 18,596 8,602 40,284 152,001 194,281 156,062 16,849 21,474 83,122 453,496 12,307 190,828	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749 4,713 6,515 23,929 21,314 18,229 8,435 37,900 126,215 181,353 48,031 14,465 20,317 81,250 359,210 11,094 158,570	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 59,528 4,236 5,778 20,758 18,604 15,373 7,111 33,177 117,064 159,279 43,957 13,203 17,426 68,877 338,152 10,070 149,878
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal products 308 Petroleum, coal products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 316 Electrical machinery 317 Motor vehicles, aircraft 319 Other transport 320 Precision instruments 321 Other manufacturing 400 Construction 500 Electricity, gas 600 Wholesale & retail trac 700 Transportation	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,796 4,559 65,577 4,579 6,318 23,104 20,610 17,507 8,100 36,641 122,793 175,400 46,666 14,046 19,550 78,113 349,700 10,801 155,704 25,831	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760 5,170 6,956 25,087 22,253 18,596 8,602 40,284 40,284 152,001 194,281 56,062 16,849 21,474 83,122 453,496 12,307 190,828 30,295	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749 4,713 6,515 23,929 21,314 18,229 8,435 37,900 126,215 181,353 48,031 14,465 20,317 81,250 359,210 11,094 158,570 26,447	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 59,528 4,236 5,778 20,758 20,758 18,604 15,373 7,111 33,177 117,064 159,279 43,957 13,203 17,426 68,877 338,152 10,070 149,878 24,488
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal products 308 Petroleum, coal products 309 Rubber products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 316 Electrical machinery 317 Motor vehicles, aircraff 319 Other transport 320 Precision instruments 321 Other manufacturing 400 Construction 500 Electricity, gas 600 Wholesale & retail trac 700 Transportation	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359 15,796 6,577 4,579 6,318 23,104 20,610 17,507 8,100 36,641 122,793 175,400 46,666 14,046 19,550 78,113 349,700 10,801 155,704 25,831 1,087	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760 5,170 6,956 25,087 22,253 18,596 8,602 40,284 152,001 194,281 56,062 16,849 21,474 83,122 453,496 12,307 190,828 30,295 1,308	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749 4,713 6,515 23,929 21,314 18,229 8,435 37,900 126,215 181,353 48,031 14,465 20,317 81,250 359,210 11,094 158,570 26,447 1,113	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 59,528 4,236 5,778 20,758 18,604 15,373 7,111 33,177 117,064 159,279 43,957 13,203 17,426 68,877 338,152 10,070 149,878 24,488 1,036
Other China 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal products 308 Petroleum, coal products 309 Rubber products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 316 Electrical machinery 317 Motor vehicles, aircraff 319 Other transport 320 Precision instruments 321 Other manufacturing 400 Construction 500 Electricity, gas 600 Wholesale & retail trac 700 Transportation 800 Communication 910 Finance, real estate	Base Line 165,072 13,425 20,083 7,645 6,708 248 4,987 163,553 259,592 3,959 15,359 15,796 4,559 65,577 4,579 6,318 23,104 20,610 17,507 8,100 36,641 122,793 175,400 46,666 14,046 19,550 78,113 349,700 10,801 155,704 25,831 1,087 19,027 19,027 19,027 19,027 19,027 19,027 19,027 10,027	Accelation 191,346 15,424 23,095 8,390 7,075 261 5,359 187,289 279,291 4,200 16,981 18,574 5,375 71,760 5,170 6,956 25,087 22,253 18,596 8,602 40,284 152,001 194,281 156,062 16,849 21,474 83,122 453,496 12,307 190,828 30,295 1,308 23,411	Accelation 169,224 13,778 20,604 7,866 6,958 257 5,182 167,911 269,238 4,124 15,887 16,089 4,641 67,749 4,713 6,515 23,929 21,314 18,229 8,435 37,900 126,215 181,353 48,031 14,465 20,317,20 359,210 11,094 158,570 26,447 1,113 19,347	Recession 155,557 12,586 18,842 7,046 5,969 221 4,423 152,505 231,738 3,473 13,916 15,053 4,354 59,528 4,236 5,778 20,758 18,604 15,373 7,111 33,177 117,064 159,279 43,957 13,203 17,426 68,877 338,152 10,070 149,878 24,488 24,488 1,036 18,296

(1995 100 mill \$)

South	Base Line	China	Japan	World
Korea	40.004	Accelation	Accelation	Recession
110 Agriculture	13,624	14,185	13,887	12,693
120 Folesity 130 Fishing	7 412	300 7 768	7 579	6 826
210 Coal	13	13	13	13
220 Crude oil & gas	0	0	0	0
230 Metal mining	0	0	0	0
290 Non-metal mining	320	340	329	287
301 Food, tobacco	57,511	60,025	58,686	53,336
302 Textiles, apparels	66,047	69,839	67,847	59,920
303 Wood products	430	452	441	394
304 Furniture	8,106	8,435	8,257	7,544
305 Pulp, paper products	3,850	4,062	3,950	3,509
307 Chemicals	31 086	32 776	31 886	4,002 28 346
308 Petroleum coal produc	14 720	15 442	15 060	13 536
309 Rubber products	5,944	6,297	6,112	5,376
310 Leather products	7,989	8,420	8,193	7,289
311 Non-metallic products	2,946	3,111	3,024	2,679
312 Iron & steel	14,100	14,985	14,522	12,681
313 Non-ferrous metals	1,942	2,062	2,000	1,749
314 Metal products	19,603	20,601	20,070	17,956
315 General machinery	150,000	169,6340	64,885	59,074
317 Motor vehicles aircraft	96 490	100,030	08 501	88 951
319 Other transport	25,363	26 641	25 959	23 245
320 Precision instruments	10.871	11.337	11.085	10.076
321 Other manufacturing	24,479	25,892	25,150	22,195
400 Construction	255,037	264,439	259,249	238,485
500 Electricity, gas	11,809	12,305	12,040	10,979
600 Wholesale & retail trade	104,873	109,155	106,853	97,645
700 Transportation	26,618	27,728	27,134	24,762
800 Communication	9,058	9,438	9,235	8,421
910 Finance, real estate 920 Other services	188 370	120,190	190 418	181 029
			,	.0.,020
North		China	lanan	World
North Korea	Base Line	China Accelation	Japan Accelation	World Recession
North Korea	Base Line	China Accelation	Japan Accelation	World Recession
North Korea 110 Agriculture 120 Forestry	Base Line 1,641 26	China Accelation 1,649 27	Japan Accelation 1,646 27	World Recession 1,632 26
North Korea 110 Agriculture 120 Forestry 130 Fishing	Base Line 1,641 26 604	China Accelation 1,649 27 607	Japan Accelation 1,646 27 606	World Recession 1,632 26 601
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal	Base Line 1,641 26 604 18	China Accelation 1,649 27 607 18	Japan Accelation 1,646 27 606 18	World Recession 1,632 26 601 18
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas	Base Line 1,641 26 604 18 0	China Accelation 1,649 27 607 18 0	Japan Accelation 1,646 27 606 18 0	World Recession 1,632 26 601 18 0
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining	Base Line 1,641 26 604 18 0 0	China Accelation 1,649 27 607 18 0 0	Japan Accelation 1,646 27 606 18 0 0	World Recession 1,632 26 601 18 0 0
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining	Base Line 1,641 26 604 18 0 0 13 1021	China Accelation 1,649 27 607 18 0 0 14	Japan Accelation 1,646 27 606 18 0 0 14	World Recession 1,632 26 601 18 0 0 13
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 200 Toxilion compared	Base Line 1,641 26 604 18 0 0 13 1,924	China Accelation 1,649 27 607 18 0 0 14 1,934 1,934	Japan Accelation 1,646 27 606 18 0 0 14 1,930 1016	World Recession 1,632 26 601 18 0 0 13 1,914
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 313 Wood products	Base Line 1,641 26 604 18 0 0 13 1,924 1,011 12	China Accelation 1,649 27 607 18 0 0 14 1,934 1,018	Japan Accelation 1,646 27 606 18 0 0 14 1,930 1,016 1,016	World Recession 1,632 26 601 18 0 0 13 1,914 1,004
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture	Base Line 1,641 26 604 18 0 0 13 1,924 1,011 12 240	China Accelation 1,649 27 607 18 0 0 14 1,934 1,018 12 242	Japan Accelation 1,646 27 606 18 0 0 14 1,930 1,016 12 241	World Recession 1,632 26 601 18 0 0 13 1,914 1,004 12 239
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products	Base Line 1,641 26 604 18 0 0 13 1,924 1,011 12 240 59	China Accelation 1,649 27 607 18 0 0 0 14 1,934 1,018 12 242 60	Japan Accelation 1,646 27 606 18 0 0 0 14 1,930 1,016 12 241 60	World Recession 1,632 26 601 18 0 0 13 1,914 1,004 12 239 59
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing	Base Line 1,641 26 604 18 0 0 13 1,924 1,011 12 240 59 187	China Accelation 1,649 27 607 18 0 0 14 1,934 1,018 12 242 60 0 188	Japan Accelation 1,646 27 606 18 0 0 0 14 1,930 1,016 12 241 600 188	World Recession 1,632 26 601 18 0 0 13 3,1,914 1,004 12 239 59 187
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals	Base Line 1,641 26 604 18 0 0 1,924 1,924 1,011 12 240 59 187 533	China Accelation 1,649 27 607 18 0 0 14 1,934 1,934 1,934 1,934 1,934 2,242 60 0 188 536	Japan Accelation 1,646 27 606 18 0 0 0 14 1,930 1,930 1,930 1,930 1,930 1,936 1,936 1,936 1,936 1,936 1,936 1,936 1,936 1,936 1,936 1,937 1,937 1,936 1,936 1,936 1,937 1,936 1,937 1,936 1,937 1,936 1,937 1,936 1,937 1,936 1,937 1,936 1,937	World Recession 1,632 26 601 18 0 0 0 13 1,914 1,914 1,004 12 239 59 9 187 530
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal product	Base Line 1,641 26 604 18 0 0 0 13 1,924 1,011 12 240 59 187 533 198	China Accelation 1,649 27 607 18 0 0 0 14 1,934 1,934 1,934 1,018 12 242 60 188 536 536 199	Japan Accelation 1,646 27 606 18 0 0 0 14 1,930 1,016 12 241 60 188 535 535	World Recession 1,632 26 601 18 0 0 0 13 1,914 1,004 12 239 59 187 530 197
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal product 309 Rubber products	Base Line 1,641 26 604 18 0 0 0 13 1,924 1,011 12 240 59 187 533 198 33 15	China Accelation 1,649 27 607 18 0 0 0 14 1,934 1,018 12 242 60 188 536 199 33 3,12	Japan Accelation 1,646 27 606 18 0 0 0 14 1,930 1,016 12 241 60 188 535 199 33 3,150	World Recession 1,632 26 601 18 0 0 0 13 1,914 1,004 12 239 59 187 530 197 333
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal product 309 Rubber products 310 Leather products 311 Leather products	Base Line 1,641 26 604 18 0 0 0 1,924 1,011 12 240 59 187 533 198 33 145 41	China Accelation 1,649 27 607 18 0 0 0 14 1,934 1,018 1,018 1,018 536 199 33 146 242	Japan Accelation 1,646 27 606 18 0 0 0 14 1,930 1,016 12 241 60 188 535 535 199 33 146 24	World Recession 1,632 26 601 18 0 0 0 13 1,914 1,004 12 239 59 187 530 197 33 144
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal product 309 Rubber products 310 Leather products 311 Non-metallic products 312 Iron & steal	Base Line 1,641 26 604 18 0 0 0 13 1,924 1,011 12 240 59 187 533 198 33 145 41 13	China Accelation 1,649 27 607 18 0 0 0 14 1,934 1,018 12 242 60 188 536 199 33 146 42 2	Japan Accelation 1,646 27 606 18 0 0 0 14 1,930 1,016 12 241 60 188 535 199 33 146 42 213	World Recession 1,632 26 601 18 0 0 0 13 1,914 1,004 12 239 59 187 530 197 33 144 41 13
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal produc 309 Rubber products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals	Base Line 1,641 26 604 18 0 0 0 13 1,924 1,011 12 240 59 187 533 198 33 145 41 13 20	China Accelation 1,649 27 607 18 0 0 0 14 1,934 1,018 12 242 60 188 536 199 33 146 42 13 21	Japan Accelation 1,646 27 606 18 0 0 0 14 1,930 1,016 1,016 1,016 1,016 1,016 1,013 1,016 1,014 1,013 1,0141	World Recession 1,632 26 601 18 0 0 0 13 1,914 1,004 12 239 59 187 530 197 33 144 41 13 20
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal product 309 Rubber products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products	Base Line 1,641 26 604 18 0 0 0 13 1,924 1,011 12 240 59 187 533 198 33 145 41 13 20 306	China Accelation 1,649 27 607 18 0 0 14 1,934 1,018 12 242 60 0 188 536 199 33 3 146 42 13 21	Japan Accelation 1,646 27 606 18 0 0 14 1,930 1,	World Recession 1,632 26 601 18 0 0 13 3,1,914 1,004 12 239 59 59 59 187 530 197 33 3,144 41 13 20 0 304
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal product 309 Rubber products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery	Base Line 1,641 26 604 18 0 0 0 13 1,924 1,011 12 240 59 187 533 198 33 145 41 13 20 306 1,704	China Accelation 1,649 27 607 18 0 0 14 1,9344 1,9346 1,9366 1,9346 1,9346 1,9346 1,9346 1,9346	Japan Accelation 1,646 27 606 18 0 0 0 14 1,930	World Recession 1,632 26 601 18 0 0 0 13 1,914 1,004 12 239 59 187 530 197 33 144 41 13 20 304 1,690
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal product 309 Rubber products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 316 Electrical machinery	Base Line 1,641 26 604 18 0 0 0 13 1,924 1,011 12 240 59 187 533 198 333 145 41 13 20 306 1,704 1,692	China Accelation 1,649 27 607 18 0 0 14 1,9344 1,934411,934411,934411,934411,9344111,934411,934411,93441111,	Japan Accelation 1,646 27 606 18 0 0 0 14 1,930 1,016 12 241 60 188 535 199 33 146 42 13 21 307 1,712 1,700	World Recession 1,632 26 601 18 0 0 0 13 1,914 1,004 12 239 59 187 530 197 33 144 41 13 20 304 41 690 1,678
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal product 309 Rubber products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 316 Electrical machinery 317 Motor vehicles, aircraft	Base Line 1,641 26 604 18 0 0 0 13 1,924 1,011 12 240 59 187 533 198 333 145 41 13 20 306 1,704 1,692 558	China Accelation 1,649 27 607 18 0 0 0 14 1,935 1,9355 1,935 1,935 1,9355 1,9355 1,9355 1,9355 1,9355 1,9355 1,935	Japan Accelation 1,646 27 606 18 0 0 0 14 1,930 1,016 12 241 60 188 535 199 33 146 42 13 21 307 1,712 1,700 560	World Recession 1,632 26 601 18 0 0 0 13 1,914 1,004 12 239 59 187 530 197 33 144 41 13 20 304 41 1,690 1,678 554
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal product 309 Rubber products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 316 Electrical machinery 317 Motor vehicles, aircraft 319 Other transport	Base Line 1,641 26 604 18 0 0 0 13 1,924 1,011 12 240 59 187 533 198 333 145 41 13 20 306 1,704 1,692 558 277 	China Accelation 1,649 27 607 18 0 0 0 14 1,934 1,934 1,934 1,934 1,934 1,938 12 242 60 188 536 199 33 146 42 13 21 308 1,715 1,703 562 279 279	Japan Accelation 1,646 27 606 18 0 0 0 14 1,930 1,016 12 241 60 188 535 199 33 146 42 13 21 307 1,712 1,700 560 278	World Recession 1,632 26 601 18 0 0 0 13 1,914 1,004 12 239 59 187 530 197 33 144 41 13 20 304 1,678 554 274
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal product 309 Rubber products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 316 Electrical machinery 317 Motor vehicles, aircraft 319 Other transport 320 Precision instruments	Base Line 1,641 26 604 18 0 0 0 13 1,924 1,011 12 240 59 187 533 198 33 145 41 13 20 306 1,704 1,692 558 277 533 242	China Accelation 1,649 27 607 18 0 0 0 14 1,934 1,018 12 242 60 188 536 199 33 146 42 13 21 308 1,715 1,703 562 279 537	Japan Accelation 1,646 27 606 18 0 0 0 14 1,930 1,016 12 241 60 188 535 535 199 33 146 42 13 21 307 1,712 1,700 560 278 536	World Recession 1,632 26 601 18 0 0 0 13 1,914 1,004 12 239 59 187 530 197 33 144 41 13 20 304 1,690 1,678 554 274
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal product 309 Rubber products 310 Leather products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 315 General machinery 316 Electrical machinery 317 Motor vehicles, aircraft 319 Other transport 320 Precision instruments 321 Other manufacturing	Base Line 1,641 26 604 18 0 0 0 13 1,924 1,011 12 240 59 187 533 198 33 145 41 13 20 306 1,704 1,692 558 277 533 249 7 255	China Accelation 1,649 27 607 18 0 0 0 14 1,934 1,018 12 242 60 188 536 199 33 146 42 13 33 146 42 13 308 1,715 1,703 1,705 1,705 2,577 2,577 2,577	Japan Accelation 1,646 27 606 18 0 0 0 14 1,930 1,016 12 241 60 188 535 535 199 33 146 42 23 13 21 307 1,712 1,700 1,700 560 278 536 250 278	World Recession 1,632 26 6011 18 0 0 0 13 1,914 1,004 12 239 59 187 530 197 33 144 411 13 200 304 1,690 1,678 1,678 274 554 274 559 248 8 7 200
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal product 309 Rubber products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 316 Electrical machinery 316 Electrical machinery 317 Motor vehicles, aircraft 319 Other transport 320 Precision instruments 321 Other manufacturing 400 Construction 500 Electricity cas	Base Line 1,641 26 604 18 0 0 0 13 1,924 1,011 12 240 59 187 533 198 33 145 41 13 20 306 1,704 1,692 558 277 533 249 7,355 347	China Accelation 1,649 27 607 18 0 0 14 1,934 1,018 1,934 1,018 242 242 60 0 188 536 199 33 3 146 42 13 21 308 1,715 1,703 562 279 537 251 7,405	Japan Accelation 1,646 27 606 18 0 0 0 14 1,930 1,016\\	World Recession 1,632 26 601 18 0 0 13 1,914 1,004 12 239 59 59 187 530 197 33 144 41 13 20 304 1,678 554 4274 529 248 7,296 345
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal product 309 Rubber products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferous metals 314 Metal products 315 General machinery 316 Electrical machinery 316 Electrical machinery 317 Motor vehicles, aircraft 319 Other transport 320 Precision instruments 321 Other manufacturing 400 Construction 500 Electricity, gas 600 Wholesale & retail tradi	Base Line 1,641 26 604 18 0 0 0 13 1,924 1,011 12 240 59 187 533 198 33 145 41 13 20 306 1,704 1,692 558 277 533 249 7,355 347 3,674	China Accelation 1,649 27 607 18 0 0 14 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,715 1,703 562 279 537 251 7,405 3,499 3,694	Japan Accelation 1,646 27 606 18 0 0 144 1,930 1,016 12 241 60 188 535 199 33 146 42 13 21 307 1,712 1,700 560 278 536 250 7,392 348 3,687	World Recession 1,632 26 601 18 0 0 0 13 1,914 1,004 1,914 1,004 1,914 1,004 1,914 1,004 1,917 1,917 1
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal product 309 Rubber products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 316 Electrical machinery 316 Electrical machinery 317 Motor vehicles, aircraft 319 Other transport 320 Precision instruments 321 Other manufacturing 400 Construction 500 Electricity, gas 600 Wholesale & retail tradu 700 Transportation	Base Line 1,641 26 604 18 0 0 0 13 1,924 1,914 1,924 1,914 1,924 240 599 187 533 198 33 145 41 13 200 306 1,704 1,692 558 277 533 249 7,355 347 3,674 928	China Accelation 1,649 27 607 18 0 0 14 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,933 146 42 13 308 1,715 1,703 562 279 537 251 7,405 349 3,694 933	Japan Accelation 1,646 27 606 18 0 0 0 144 1,930	World Recession 1,632 26 601 18 0 0 0 13 1,914 1,004 12 239 59 187 530 197 33 144 41 13 200 304 4,690 1,678 554 274 529 248 7,296 345 529 248
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal product 309 Rubber products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 316 Electrical machinery 316 Electrical machinery 317 Motor vehicles, aircraft 319 Other transport 320 Precision instruments 321 Other manufacturing 400 Construction 500 Electricity, gas 600 Wholesale & retail tradi 700 Transportation 800 Communication	Base Line 1,641 26 604 18 0 0 0 13 1,924 1,011 12 240 59 187 533 198 333 145 41 13 200 306 1,704 1,692 558 277 533 249 7,355 347 3,674 928 137	China Accelation 1,649 27 607 18 0 0 14 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,933 146 42 13 308 1,715 1,703 562 279 537 251 7,405 349 3,694 933 138	Japan Accelation 1,646 27 606 18 0 0 0 14 1,930 1,016 12 241 60 188 535 199 33 146 42 13 21 307 1,712 1,700 560 278 536 250 7,392 348 3,687 931 138	World Recession 1,632 26 601 18 1,914 1,004 12 239 59 187 530 197 33 144 41 13 200 304 41,690 1,678 554 274 559 248 7,296 345 3,654 924 137
North Korea 110 Agriculture 120 Forestry 130 Fishing 210 Coal 220 Crude oil & gas 230 Metal mining 290 Non-metal mining 290 Non-metal mining 301 Food, tobacco 302 Textiles, apparels 303 Wood products 304 Furniture 305 Pulp, paper products 306 Printing, publishing 307 Chemicals 308 Petroleum, coal product 309 Rubber products 310 Leather products 311 Non-metallic products 312 Iron & steel 313 Non-ferrous metals 314 Metal products 315 General machinery 316 Electrical machinery 317 Motor vehicles, aircraft 319 Other transport 320 Precision instruments 321 Other manufacturing 400 Construction 500 Electricity, gas 600 Wholesale & retail tradu 700 Transportation 800 Communication 910 Finance, real estate	Base Line 1,641 26 604 18 0 0 0 13 1,924 1,011 12 240 59 187 533 198 333 145 141 13 200 306 1,704 1,692 558 277 533 249 7,355 3,674 928 137 2,903	China Accelation 1,649 27 607 18 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,934 1,935 1,935 1,745 1,703 562 279 537 251 7,405 3,694 933 3,694 933 1,38 2,918	Japan Accelation 1,646 27 606 18 0 0 0 14 1,930 1,016 12 241 60 188 535 199 33 146 42 13 21 307 1,712 1,702 1,712 1,700 560 278 536 250 7,392 348 3,687 931 138 2,913	World Recession 1,632 26 601 18 0 0 0 13 1,914 1,004 12 239 59 187 530 197 33 144 41 13 20 304 1,690 1,678 554 274 529 248 7,296 3,654 924 137 2,887

#### Table-4 Output: North East Asia in 2010

#### 4 Scenarios

		Dese Line	China	Japan	World
Russ	ian Far East	Base Line	Accelation	Accelation	Recession
110	Agriculture	1,746	1,754	1,754	1,705
120	Forestry	695	707	703	645
130	Fishing	980	988	987	942
210	Coal	394	401	399	366
220	Crude oil & das	368	374	373	342
230	Metal mining	111	112	112	104
200	Non-metal mining	0	0	0	104
201	Food tobacco	2 010	2 055	2 0 4 7	2 960
201	Toxtilog opporeig	3,019	3,055	3,047	2,000
302	Veed products	110	110	110	107
303		934	950	945	809
304	Furniture	00	69	69	00
305	Pulp, paper products	84	85	84	81
306	Printing, publishing	68	69	68	65
307	Chemicals	323	325	324	313
308	Petroleum, coal produc	217	221	219	201
309	Rubber products	26	26	26	25
310	Leather products	135	136	136	132
311	Non-metallic products	92	92	92	90
312	Iron & steel	94	95	95	88
313	Non-ferrous metals	690	701	698	643
314	Metal products	96	98	98	90
315	General machinery	680	695	690	636
316	Electrical machinery	77	78	78	72
317	Motor vehicles, aircraft	227	232	230	212
319	Other transport	62	63	63	58
320	Precision instruments	46	47	47	43
321	Other manufacturing	659	669	666	617
400	Construction	10 548	10 857	10 753	9 620
500	Electricity das	53	53	10,750	51
600	Wholesale & rotail trad	4 004	4 025	4 032	3 954
700	Transportation	4,004	4,033	4,032	3,034
200	Communication	101	104	104	7.51
010		101	102	102	1 0 4 0
910	Char convision	1,800	1,657	1,657	1,640
920	Other services	3,239	3,252	3,249	3,183
			China	Japan	World
Other	Puesia	Base Line	China Accelation	Japan Accelation	World
Other	Russia	Base Line	China Accelation	Japan Accelation	World Recession
<b>Othe</b> 110	r <b>Russia</b> Agriculture	Base Line 23,171	China Accelation 23,308	Japan Accelation 23,229	World Recession 22,822
Other 110 120	r <b>Russia</b> Agriculture Forestry	Base Line 23,171 1,320 702	China Accelation 23,308 1,337 707	Japan Accelation 23,229 1,328 704	World Recession 22,822 1,280 690
Other 110 120 130	r <b>Russia</b> Agriculture Forestry Fishing	Base Line 23,171 1,320 702	China Accelation 23,308 1,337 707	Japan Accelation 23,229 1,328 704	World Recession 22,822 1,280 690
Other 110 120 130 210	Russia Agriculture Forestry Fishing Coal	Base Line 23,171 1,320 702 624	China Accelation 23,308 1,337 707 632	Japan Accelation 23,229 1,328 704 628	World Recession 22,822 1,280 690 607
Other 110 120 130 210 220	Russia Agriculture Forestry Fishing Coal Crude oil & gas	Base Line 23,171 1,320 702 624 13,391	China Accelation 23,308 1,337 707 632 13,593	Japan Accelation 23,229 1,328 704 628 13,479	World Recession 22,822 1,280 690 607 12,924 2,924
Other 110 120 130 210 220 230	r Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining	Base Line 23,171 1,320 702 624 13,391 4,013	China Accelation 23,308 1,337 707 632 13,593 4,072	Japan Accelation 23,229 1,328 704 628 13,479 4,039	World Recession 22,822 1,280 690 607 12,924 3,877
Othei 110 120 130 210 220 230 290	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining	Base Line 23,171 1,320 702 624 13,391 4,013 0	China Accelation 23,308 1,337 707 632 13,593 4,072 0 0 7,072	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 07	World Recession 22,822 1,280 690 607 12,924 3,877 0 0 7 0 02
Other 110 120 210 220 230 290 301	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571	World Recession 22,822 1,280 690 607 12,924 3,877 0 27,040
Other 110 120 210 220 230 290 301 302	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079	World Recession 22,822 1,280 690 607 12,924 3,877 0 27,040 3,997
Other 110 120 210 220 230 290 301 302 303	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733	World Recession 22,822 1,280 690 607 12,924 3,877 0 27,040 3,997 1,679
Other 110 120 210 220 230 290 301 302 303 304	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423	World Recession 22,822 1,280 607 12,924 3,877 0 27,040 3,997 1,679 1,375
Other 110 120 210 220 230 290 301 302 303 304 305	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,652	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641	World Recession 22,822 1,280 607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586
Other 110 120 210 220 230 290 301 302 303 304 305 306	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Furniture Pulp, paper products Printing, publishing	Base Line 23,171 1,320 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,652 1,639	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628	World Recession 22,822 1,280 607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573
Other 110 120 210 220 230 290 301 302 303 304 305 306 307	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Printing, publishing Chemicals	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619 8,502	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,639 8,614	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550	World Recession 22,822 1,280 690 607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241
Other 110 120 210 220 230 290 301 302 303 304 305 306 307 308	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Printing, publishing Chemicals Petroleum, coal product	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619 8,502 6,635	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,652 1,639 8,614 6,734	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,8550 6,679	World Recession 22,822 1,280 690 607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405
Other 110 120 210 220 290 301 302 303 304 305 306 307 308 309	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Furniture Pulp, paper products Printing, publishing Chemicals Petroleum, coal product Rubber products	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619 8,502 6,635 742	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,652 1,639 8,614 6,734 752	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550 6,679 747	World Recession 22,822 1,280 607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405 720
Othei 110 120 220 230 290 301 302 303 304 305 306 307 308 309 310	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Printing, publishing Chemicals Petroleum, coal products Leather products	Base Line 23,171 1,320 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619 8,502 6,635 742 1,372	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,652 1,639 8,614 6,734 752 1,381	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550 6,679 747 1,376	World Recession 22,822 1,280 690 607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405 720 1,348
Other 110 120 210 220 290 301 302 303 304 305 306 307 308 309 310 311	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Printing, publishing Chemicals Petroleum, coal product Rubber products Leather products Non-metallic products	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619 8,502 6,635 742 1,372 1,372 1,023	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,652 1,639 8,614 6,734 752 1,381 1,031	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550 6,679 747 1,376 1,026	World Recession 22,822 1,280 690 607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405 720 1,348 1,003
Othea 110 120 210 220 290 301 302 303 304 305 306 307 308 309 310 311 312	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Printing, publishing Chemicals Petroleum, coal product Rubber products Leather products Non-metallic products Iron & steel	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619 8,502 6,635 742 1,372 1,023 7,642	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,652 1,639 8,614 6,734 752 1,381 1,031 7,759	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550 6,679 747 1,376 1,026 7,693	World Recession 22,822 1,280 690 607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405 720 1,348 1,003 7,370
Othen 110 120 220 230 290 301 302 303 304 305 306 307 308 309 310 311 312 313	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Furniture Pulp, paper products Printing, publishing Chemicals Petroleum, coal product Rubber products Leather products Leather products Iron & steel Non-ferrous metals	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619 8,502 6,635 742 1,372 1,023 7,642 8,322	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,652 1,639 8,614 6,734 752 1,381 1,031 7,759 8,842	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550 6,679 747 1,376 1,026 7,693 8,374	World Recession 22,822 1,280 607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405 720 1,348 1,003 7,370 8,043
Othee 110 120 210 230 230 301 302 303 304 305 306 307 308 307 308 309 310 311 312 313 314	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Printing, publishing Chemicals Petroleum, coal product Leather products Leather products Leather products Non-metallic products Iron & steel Non-ferrous metals Metal products	Base Line 23,171 1,320 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619 8,502 6,635 742 1,372 1,023 7,642 8,322 1,540	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,652 1,639 8,614 6,734 752 1,381 1,031 7,759 8,442 1,555	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550 6,679 747 1,376 1,026 7,693 8,374 1,547	World Recession 22,822 1,280 690 607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405 720 1,348 1,003 7,370 8,043 1,505
Other 1100 1200 2200 2200 200 3001 3002 3003 3004 3005 3006 307 3088 3090 3101 3112 3133 314 315	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Furniture, publishing Chemicals Petroleum, coal product Rubber products Leather products Non-metallic products Iron & steel Non-ferrous metals Metal products General machinery	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619 8,502 6,635 742 1,372 1,023 7,642 8,322 1,540 11,825	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,652 1,639 8,614 6,734 752 1,381 1,031 7,759 8,442 1,555 11,937	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550 6,679 747 1,376 1,026 7,693 8,374 1,547 11,876	World Recession 22,822 1,280 607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405 720 1,348 1,003 7,370 8,043 1,505
Othee 1100 2200 2200 200 301 3022 303 304 305 306 307 308 309 310 311 312 313 314 315 316	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Printing, publishing Chemicals Petroleum, coal product Rubber products Leather products Leather products Iron & steel Non-ferrous metals Metal products General machinery	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619 8,502 6,635 742 1,372 1,023 7,642 8,322 1,540 11,825 2,027	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 1,433 1,433 1,652 1,639 8,614 6,734 752 1,381 1,031 7,759 8,442 1,555 11,937 2,047	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550 6,679 747 1,376 1,026 7,693 8,374 1,876 1,877 1,876 2,036	World Recession 22,822 1,280 690 607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405 720 1,348 1,003 7,370 8,043 1,505 11,557 1,981
Othee 1100 2100 2200 2000 3001 3002 3003 3004 3005 3006 3007 3008 3009 3100 3111 3122 3133 314 315 316 317	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Furniture Pulp, paper products Printing, publishing Chemicals Petroleum, coal produc Rubber products Leather products Leather products Leather products Iron & steel Non-metallic products Iron & steel Non-ferrous metals Metal products General machinery Electrical machinery	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619 8,502 6,635 742 1,372 1,023 7,642 8,322 1,540 11,825 2,027 5,280	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,652 1,639 8,614 6,734 752 1,381 1,031 7,759 8,442 1,555 11,937 2,047 5,330	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550 6,679 747 1,376 1,026 7,693 8,374 1,547 11,876 2,036 5,303	World Recession 22,822 1,280 607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405 720 1,348 1,003 7,370 8,043 1,505 11,557 1,981 5,160
Other 1100 1200 2200 2200 2301 3022 301 3023 303 304 305 306 307 308 307 308 307 308 310 311 312 313 314 315 316 317 319	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Furniture Furniture Pulp, paper products Furniture Furniture Furniture Pulp, paper products Furniture Fu	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619 8,502 6,635 742 1,372 1,023 7,642 8,322 1,540 11,825 2,027 5,280 931	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,652 1,639 8,614 6,734 7,759 8,614 1,031 7,759 8,842 1,555 11,937 2,047 5,330	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550 6,679 747 1,376 1,026 7,693 8,374 1,547 11,876 2,036 5,303 935	World Recession 22,822 1,280 690 607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405 720 1,348 1,003 7,370 8,043 1,505 11,557 1,981 5,160 911
Other 110 120 220 230 302 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 319 320	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Printing, publishing Chemicals Petroleum, coal product Rubber products Leather products Iron & steel Non-metallic products Iron & steel Non-ferrous metals Metal products General machinery Electrical machinery Electrical machinery Motor vehicles, aircraft Other transport	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619 8,502 6,635 742 1,372 1,023 7,642 8,322 1,540 11,825 2,027 5,280 931 788	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,652 1,639 8,614 6,734 752 1,381 1,031 7,759 8,442 1,555 11,937 2,047 5,330	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550 6,679 747 1,376 1,026 7,693 8,374 1,547 11,876 2,036 5,303 935 792	World Recession 22,822 1,280 690 607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405 720 1,348 1,003 7,370 8,043 1,505 11,557 1,981 5,160 911 771
Othei 110 120 220 220 301 302 303 304 305 306 307 308 307 308 309 310 311 312 313 314 315 316 317 319 320	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Printing, publishing Chemicals Petroleum, coal product Rubber products Leather products Leather products Non-metallic products Iron & steel Non-ferrous metals Metal products General machinery Electrical machinery Motor vehicles, aircraft Other transport	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,619 8,502 6,635 742 1,372 1,023 7,642 8,322 1,540 11,825 2,027 5,280 931 788 2,395	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,652 1,639 8,614 6,734 752 1,381 1,031 7,759 8,442 1,555 11,937 2,047 5,330 940 796 2,413	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550 6,679 747 1,376 1,026 7,693 8,374 1,547 1,876 2,036 5,303 935 792 2,402	World Recession 22,822 1,280 697 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405 720 1,348 1,003 7,370 8,043 1,505 11,557 1,981 5,160 911 771 2,354
Other 110 120 220 220 220 200 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 319 320 321	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Furniture Pulp, paper products Printing, publishing Chemicals Petroleum, coal produc Rubber products Leather products Leather products Non-metallic products Iron & steel Non-ferrous metals Metal products General machinery Electrical machinery Motor vehicles, aircraft Other transport Precision instruments Other manufacturing Construction	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619 8,502 6,635 742 1,372 1,023 7,642 8,322 1,540 11,825 2,027 5,280 931 788 2,395 36 629	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 1,433 1,433 1,652 1,639 8,614 6,734 752 1,381 1,031 7,759 8,442 1,555 11,937 2,047 5,330 940 796 2,413 36 941	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550 6,679 747 1,376 1,026 7,693 8,374 1,547 11,876 2,036 5,303 935 792 2,402 36 784	World Recession 22,822 1,280 690 607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405 720 1,348 1,003 7,370 8,043 1,505 11,557 1,981 5,160 911 771 2,354
Other 1100 1200 2200 2200 200 301 3022 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 319 320 321 400 321	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Furniture, publishing Chemicals Petroleum, coal product Rubber products Rubber products Iron & steel Non-ferrous metals Metal products General machinery Electrical machinery Motor vehicles, aircraft Other transport Precision instruments Other manufacturing Construction	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619 8,502 6,635 742 1,372 1,023 7,642 8,322 1,540 11,825 2,027 5,280 931 788 2,395 36,629 645	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,652 1,639 8,614 6,734 752 1,381 1,031 7,759 8,442 1,555 11,937 2,047 5,330 940 796 2,413 36,941	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550 6,679 747 1,376 1,026 7,693 8,374 1,547 11,876 2,036 5,303 935 792 2,402 36,784	World Recession 22,822 1,280 690 607 12,924 3,877 0 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405 720 1,348 1,003 7,370 8,043 1,555 11,557 1,981 5,160 911 771 2,354 3,848
Other 110 120 220 230 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 319 320 321 400 500 600	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Furniture, publishing Chemicals Petroleum, coal product Rubber products Leather products Iron & steel Non-ferrous metals Metal products General machinery Electrical machinery Electrical machinery Motor vehicles, aircraft Other transport Precision instruments Other manufacturing Construction Electricity, gas	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619 8,502 6,635 742 1,372 1,023 7,642 8,322 1,540 11,825 2,027 5,280 931 788 2,395 36,629 645 47 571	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,652 1,639 8,614 6,734 752 1,381 1,031 7,759 8,442 1,555 11,937 2,047 5,330 940 796 2,413 36,941 650 47 870	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550 6,679 747 1,376 1,026 7,693 8,374 1,547 11,876 2,036 5,303 935 792 2,402 36,784 647	World Recession 22,822 1,280 690 607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405 720 1,348 1,003 7,370 8,043 1,505 11,557 1,981 5,160 911 771 2,354 35,848 636 6721
Othei 110 120 220 290 301 302 303 304 305 306 307 308 307 308 309 310 311 312 313 314 315 316 317 319 320 321 400 500 600 500 500 500 500 500 500 500 5	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Printing, publishing Chemicals Petroleum, coal product Rubber products Leather products Non-metallic products Iron & steel Non-ferrous metals Metal products General machinery Electrical machinery Motor vehicles, aircraft Other transport Precision instruments Other manufacturing Construction Electricity, gas	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,619 8,502 6,635 742 1,372 1,023 7,642 8,322 1,540 11,825 2,027 5,280 931 788 2,395 36,629 645 47,571 10,155	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,652 1,639 8,614 6,734 752 1,381 1,031 7,759 8,442 1,555 11,937 2,047 5,330 940 796 2,413 36,941 650 47,879	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550 6,679 747 1,376 1,026 7,693 8,374 1,547 1,876 2,036 5,303 935 792 2,402 36,784 647	World Recession 22,822 1,280 690 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405 720 1,348 1,503 8,241 6,405 720 1,348 1,003 7,370 8,043 1,557 11,557 11,557 1,981 5,160 911 771 2,354 35,848 636
Other 110 120 220 220 220 200 301 302 303 304 305 306 307 308 307 308 307 308 307 308 307 308 307 310 311 312 313 314 315 316 317 319 320 321 400 500 600 700 800 800 800 800 800 800 800 800 8	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Furniture Pulp, paper products Printing, publishing Chemicals Petroleum, coal produc Rubber products Leather products Leather products Non-metallic products Iron & steel Non-ferrous metals Metal products General machinery Electrical machinery Motor vehicles, aircraft Other transport Precision instruments Other manufacturing Construction Electricity, gas Wholesale & retail trad Transportation	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619 8,502 6,635 742 1,372 1,023 7,642 8,322 1,540 11,825 2,027 5,280 931 788 2,395 36,629 645 47,571 10,155 2,227 1,228 1,239 1,249	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 1,433 1,433 1,652 1,639 8,614 6,734 752 1,381 1,031 7,759 8,442 1,555 11,937 2,047 5,330 940 796 2,413 36,941 650 47,879 10,221	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550 6,679 747 1,376 1,026 7,693 8,374 1,547 11,876 2,036 5,303 935 792 2,402 36,784 647 47,704	World Recession 22,822 1,280 690 607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405 720 1,348 1,003 7,370 8,043 1,505 11,557 1,981 5,160 911 771 2,354 35,848 636 46,781 9,985
Other 1100 1200 2200 2200 2000 3011 3022 3033 304 305 306 307 308 309 3100 3111 3122 3133 314 315 316 317 319 3200 3211 4000 5000 6000 700 8000 8000 8000 8000 8000 80	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Furniturg, publishing Chemicals Petroleum, coal product Rubber products Rober products Iron & steel Non-ferrous metals Metal products General machinery Electrical machinery Electrical machinery Motor vehicles, aircraft Other transport Precision instruments Other manufacturing Construction Electricity, gas Wholesale & retail trad Transportation Communication	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619 8,502 6,635 742 1,322 1,540 11,825 2,027 5,280 931 788 2,395 36,629 645 47,571 10,155 1,320	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,652 1,639 8,614 6,734 752 1,381 1,031 7,759 8,442 1,555 11,937 2,047 5,330 940 796 2,413 36,941 650 47,879 10,221 1,328	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550 6,679 747 1,376 1,026 7,693 8,374 1,547 11,876 2,036 5,303 935 792 2,402 36,784 647 47,704	World Recession 22,822 1,280 690 607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405 720 1,348 1,003 7,370 8,043 1,555 11,557 1,981 5,160 911 771 2,354 35,848 636 646,781 9,985 1,297
Other 110 120 220 230 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 319 320 321 400 500 600 700 800 910 000 200 200 200 200 200 200 200 200 2	Russia Agriculture Forestry Fishing Coal Crude oil & gas Metal mining Non-metal mining Food, tobacco Textiles, apparels Wood products Furniture Pulp, paper products Furniture, publishing Chemicals Petroleum, coal product Leather products Leather products Non-metallic products Iron & steel Non-ferrous metals Metal products General machinery Electrical machinery Electrical machinery Motor vehicles, aircraft Other transport Precision instruments Other manufacturing Construction Electricity, gas Wholesale & retail trad Transportation Communication Finance, real estate	Base Line 23,171 1,320 702 624 13,391 4,013 0 27,494 4,067 1,724 1,415 1,632 1,619 8,502 6,635 742 1,372 1,023 7,642 8,322 1,540 11,825 2,027 5,280 931 788 2,395 36,629 645 47,571 10,155 1,320 45,253 37,512 1,320 45,253 1,320 1,320 1,320 1,542 1,540 1,540 1,542 1,540 1,545 1,520 1,52	China Accelation 23,308 1,337 707 632 13,593 4,072 0 27,673 4,095 1,743 1,433 1,652 1,639 8,614 6,734 752 1,381 1,031 7,759 8,442 1,555 11,937 2,047 5,330 940 796 2,413 36,941 650 47,879 10,221 1,328 45,279	Japan Accelation 23,229 1,328 704 628 13,479 4,039 0 27,571 4,079 1,733 1,423 1,641 1,628 8,550 6,679 747 1,376 1,026 7,693 8,374 1,547 11,876 2,036 5,303 935 792 2,402 36,784 647 77 47,704	World Recession 22,822 1,280 690 0607 12,924 3,877 0 27,040 3,997 1,679 1,375 1,586 1,573 8,241 6,405 720 1,348 1,003 7,370 8,043 1,505 11,557 1,981 5,160 911 771 2,354 35,848 636 46,781 9,985 1,297 45,186

		China	Japan	World
Mongolia	Base Line	Accelation	Accelation	Recession
110 Agriculture	263	268	264	259
120 Forestry	0	0	0	0
130 Fishing	0	0	0	0
210 Coal	8	8	8	8
220 Crude oil & gas	0	0	0	0
230 Metal mining	40	44	42	38
290 Non-metal mining	0	0	0	0
301 Food, tobacco	138	139	138	137
302 Textiles, apparels	71	75	73	70
303 Wood products	20	21	20	20
304 Furniture	0	0	0	0
305 Pulp, paper products	0	0	0	0
306 Printing, publishing	2	2	2	2
307 Chemicals	6	6	6	6
308 Petroleum, coal produc	0	0	0	0
309 Rubber products	0	0	0	0
310 Leather products	17	17	17	17
311 Non-metallic products	13	14	13	13
312 Iron & steel	0	0	0	0
313 Non-ferrous metals	2	2	2	2
314 Metal products	2	2	2	2
315 General machinery	0	0	0	0
316 Electrical machinery	1	1	1	1
317 Motor vehicles, aircraft	2	2	2	2
319 Other transport	0	0	0	0
320 Precision instruments	2	2	2	2
321 Other manufacturing	52	55	53	49
400 Construction	120	125	122	117
500 Electricity, gas	88	88	88	88
600 Wholesale & retail trade	0	0	0	0
700 Transportation	56	56	56	55
800 Communication	29	29	29	29
910 Finance, real estate	0	0	0	0
920 Other services	210	213	211	209

-			China	Japan	World	
Total		Base Line	Accelation	Accelation	Recession	
	North East China	177,847	184,421	185,493	178,406	
	Other China	2,124,370	2,519,419	2,181,884	1,990,342	
	South Korea	1,353,109	1,410,538	1,379,786	1,257,044	
	North Korea	32,884	33,067	33,011	32,693	
	Russian Far East	32,580	33,092	32,943	30,775	
	Other Russia	356,905	359,200	357,924	351,303	
	Mongolia	1,142	1,169	1,151	1,125	

#### (1995 100 mill \$)

## Table 5–1 Medium Term Simulation GDP

Base Line										
		2002	2003	2004	2005	2006	2007	2008	2009	2010
Japan	GDP	528465	542503	552967	556522	555105	547990	543975	550879	568448
China	V_C	6032	6596	7127	7561	7667	7600	7809	8450	9030
Hongkong	V_H	1080	1537	1724	1635	1364	1191	1374	1469	1576
S.Korea	V_K	570610	620964	671144	720201	759940	788958	825905	869445	917401
Mongolia	V_M	547760	591382	713455	812826	913306	929596	924295	867373	854320
N. Korea	V_NK	1824	1890	1941	1990	2038	2106	2181	2277	2382
Russia FE	V_RF	31.76	32.39	35.23	33.59	34.40	34.75	35.52	36.28	37.15
Taiwan	vт	9938510	10650890	11612830	12352100	12731050	12900170	13118430	13655880	14270030
China NE		5275	5647	6151	6634	7064	7439	7880	8455	9089
Russia	VD_RU	457.9	460.3	463.2	466.6	469.6	472.5	475.4	479.3	483.5
China's Accele	ration									
		2002	2003	2004	2005	2006	2007	2008	2009	2010
Japan	GDP	528499	542660	553341	557197	556185	549510	545961	553275	571322
China	V_C	6117	6809	7491	8107	8423	8528	8907	9752	10583
Hongkong	V_H	1082	1545	1742	1664	1398	1219	1401	1520	1645
S.Korea	V_K	570950	622403	674359	725861	768655	801061	841384	888574	940871
Mongolia	V_M	547778	591464	713753	813680	915159	932879	929232	873914	862356
N. Korea	V_NK	1824	1890	1941	1991	2039	2108	2183	2280	2386
Russia FE	V_RF	31.77	32.44	35.32	33.74	34.62	35.05	35.90	36.74	37.70
Taiwan	V_T	9947271	10686950	11690900	12484620	12926870	13161020	13438080	14036460	14727900
China NE	VDF_NE	5281	5664	6184	6686	7136	7527	7980	8575	9240
Russia	VD_RU	457.9	460.5	463.6	467.2	470.5	473.8	477.0	481.2	485.7
Janan's Accel	aration									
		2002	2003	2004	2005	2006	2007	2008	2009	2010
Janan	CDD	528/6/	542502	565244	590224	610328	623062	638701	664059	607350
China		6032	6596	7157	76/1	7776	7725	7037	8581	037333
Hongkong	v_0 ∨⊔	10002	1527	1727	1645	1279	1201	1320	1/122	1502
SKorea	V K	570610	620064	672495	724605	767600	700/2/	929256	222200	022274
Mongolia	V_N	5/7760	501382	713500	812006	013000	031030	026706	870856	858547
N Korea		1924	1900	10/1	1001	2040	2110	2196	2284	2201
Russia EE		21 76	32.30	25.26	22 70	2040	2/10	25 77	26 55	27.45
Taiwan	VT	0020510	10650900	11624520	12422420	12251100	12054960	12289400	12022220	14469720
China NE		5275	5647	6152	66/1	7074	7/50	7200490	9466	0102
Russia	VD_RU	457.9	460.3	463.3	467.1	470.3	473.5	476.5	480.4	484.7
World Recession	on									
		2002	2003	2004	2005	2006	2007	2008	2009	2010
Japan	GDP	528092	541447	550995	553544	550973	542839	537770	543755	560248
China	V_C	5983	6483	6955	7323	7386	7300	7493	8052	8515
Hongkong	V_H	1051	1474	1623	1508	1251	1114	1278	1304	1362
S.Korea	V_K	567640	613266	657577	699933	732771	755026	785418	821158	859756
Mongolia	V_M	547732	591291	713112	811963	911576	926778	920374	862558	848782
N. Korea	V_NK	1824	1889	1940	1988	2035	2102	2175	2269	2373
Russia FE	V_RF	31.62	32.07	34.70	32.86	33.47	33.60	34.17	34.69	35.29
Taiwan	V_T	9886929	10516780	11380620	12018700	12307580	12400070	12555590	13001130	13484390
China NE	VDF_NE	5272	5637	6135	6612	7038	7412	7853	8423	9046
Russia	VD_RU	457.3	459.0	461.1	463.6	465.8	467.8	469.9	472.7	475.9

#### Table 5-2 Exports

Base Line									1995mil us\$	
		2002	2003	2004	2005	2006	2007	2008	2009	2010
China	E\$_C	412492	493136	563814	612879	615408	599985	604179	658966	705482
Hongkong	E\$_H	273447	337697	365892	385707	402018	417406	432787	450848	470109
S, Korea	E\$_K	214650	235101	251410	266977	275495	282058	289264	304111	318694
Mongolia	E\$_M	660.8	700.7	744.9	796.1	824.5	847	861.1	898.8	939.5
N. Korea	E\$_NK	1205.4	1255.7	1308.6	1377.8	1398.2	1422.2	1427.5	1479.8	1525.7
Taiwan	E\$_T	179061	195005	211373	221078	226997	230606	235708	246975	258027
Russia	E\$_R	118825	121815	124916	128285	130912	133384	135716	138906	142201
China's Acc.										
		2002	2003	2004	2005	2006	2007	2008	2009	2010
China	E\$_C	412726	494229	566363	617451	622211	608664	613759	670069	720724
Hongkong	E\$_H	273704	338684	367879	388952	406792	423808	440794	460582	481794
S, Korea	E\$_K	214870	235963	253181	269913	279824	287837	296388	312742	329225
Mongolia	E\$_M	662.6	707.6	758.7	818.7	857.8	891.8	917.3	967.2	1021.7
N. Korea	E\$_NK	1206.3	1259.1	1315.8	1390	1416.2	1446.6	1458	1517.5	1571.4
Taiwan	E\$_T	179252	195754	212910	223623	230746	235595	241833	254375	267084
Russia	E\$_R	118871	121992	125277	128881	131791	134569	137199	140716	144385
Japan's Acc.										
		2002	2003	2004	2005	2006	2007	2008	2009	2010
China	E\$_C	412492	493136	566656	621618	628935	616618	622224	677905	727757
Hongkong	E\$_H	273447	337697	366186	386635	403502	419308	434979	453256	472870
S, Korea	E\$_K	214650	235101	252277	269613	279528	287030	294813	310084	325576
Mongolia	E\$_M	660.8	700.7	749.2	809.3	844.9	872.3	889.9	930.2	975.5
N. Korea	E\$_NK	118825	121815	125065	128740	131610	134252	136700	139980	143433
Taiwan	E\$_T	179061	195005	211846	222542	229283	233460	238890	250389	261993
Russia	E\$_R	273447	337697	366186	386635	403502	419308	434979	453256	472870
Wld Rec.										
		2002	2003	2004	2005	2006	2007	2008	2009	2010
China	E\$_C	407751	480419	542765	582614	577886	557794	558595	603708	635010
Hongkong	E\$_H	269681	329770	353499	368559	379929	390237	400404	412812	425919
S, Korea	E\$_K	212730	230719	244352	256997	262708	266630	271310	282782	293213
Mongolia	E\$_M	658	693.5	732.3	777.3	799.6	816.2	825.2	855.8	887.7
N. Korea	E\$_NK	1199.1	1240.9	1284.3	1342.7	1352.6	1365.8	1361.1	1400.3	1430.9
Taiwan	E\$_T	177936	192299	206952	214765	218942	221052	224784	233936	242168
Russia	E\$_R	118219	120519	122873	125438	127238	128866	130343	132579	134824

### Table 5-3 Imports

_	
Base	Line

Base Line								1	1995mil us\$	1
		2002	2003	2004	2005	2006	2007	2008	2009	2010
China	M\$_C	312529	342026	374821	407448	432077	446806	460955	485128	515433
Hongkong	M\$_H	284948	371505	443828	481990	474253	440538	438156	487208	527613
S, Korea	M\$_K	189008	206694	225302	243899	260051	272639	286205	301801	319181
Mongolia	M\$_M	987.3	993.3	930.1	984.5	1120.1	1184.9	1310.3	1332.3	1356.9
N. Korea	M\$_NK	10084	10868	11480	12081	12639	13462	14351	15516	16784
Taiwan	M\$_T	143838	156254	172329	185526	192000	194768	199090	208395	219216
Russia	M\$_R	42196	42187	42185	42190	42193	42197	42202	42215	42231
China's Acc.										
		2002	2003	2004	2005	2006	2007	2008	2009	2010
China	M\$_C	314360	349015	388820	430220	465530	491593	516949	553113	596977
Hongkong	M\$_H	285208	372717	446617	486926	481519	449546	447700	497892	542728
S, Korea	M\$_K	189097	207099	226269	245681	262884	276685	291510	308451	327383
Mongolia	M\$_M	988.4	997.4	938.4	998.1	1140.2	1212.3	1345.3	1375.8	1409.8
N. Korea	M\$_NK	10085	10870	11483	12088	12652	13482	14380	15555	16835
Taiwan	M\$_T	143989	156876	173674	187810	195374	199267	204612	214977	227140
Russia	M\$_R	42196	42189	42188	42195	42201	42207	42214	42230	42250
Japan's Acc.										
		2002	2003	2004	2005	2006	2007	2008	2009	2010
China	M\$_C	312529	342026	375474	409716	436125	452389	467649	492611	524074
Hongkong	M\$_H	284948	371505	444124	483209	476696	443745	440985	489458	530998
S, Korea	M\$_K	189008	206694	225653	245185	262479	276131	290546	306795	324907
Mongolia	M\$_M	987.3	993.3	932.7	992.5	1132.3	1200.1	1327.9	1352.3	1380.4
N. Korea	M\$_NK	10084	10868	11484	12095	12664	13503	14416	15603	16889
Taiwan	M\$_T	143838	156254	172703	186756	194070	197434	202020	211460	222662
Russia	M\$_R	42196	42187	42186	42194	42199	42205	42210	42224	42242
Wld Rec										
		2002	2003	2004	2005	2006	2007	2008	2009	2010
China	M\$_C	311426	338622	368519	397744	419085	431141	443142	464042	489467
Hongkong	M\$_H	281137	360362	425348	455501	442339	406867	404299	445963	472351
S, Korea	M\$_K	188230	204437	221050	237276	250888	260920	271979	284758	298816
Mongolia	M\$_M	985.7	989	922.6	973.2	1105	1165.8	1287.3	1304.4	1322.9
N. Korea	M\$_NK	10082	10862	11467	12057	12600	13407	14277	15423	16671
Taiwan	M\$_T	142949	153944	168328	179782	184703	186129	189341	197047	205594
Russia	M\$_R	42191	42177	42168	42166	42162	42159	42157	42162	42171

China			Base Line	China Acc.	Jpn Acc.	Wid Rec.
Unina	GDP	VC	7 809	8 907	9 189	7 493
	Exports	F\$	604 179	613 759	727 757	558 595
	Imports	L↓ M\$	460,955	516 949	524 074	443 142
Hongkong	Importo	IVIΨ	100,000	010,010	021,071	110,112
Tion Brong	GDP	νн	1.374	1.401	1.592	1.278
	Exports	F\$	432 787	440 794	472 870	400 404
	Imports	_↓ M\$	438,156	447,700	530,998	404,299
S Korea	Importo		100,100	117,700	000,000	10 1,200
	GDP	νк	826	841	933	785
	Exports	E\$	289.264	296.388	325.576	271.310
	Imports	 M\$	286 205	291 510	324 907	271,979
Mongolia	Importo		200,200	201,010	02 1,007	271,070
	GDP	νм	924	929	859	920
	Exports m\$	E\$	861	917	976	825
	Imports m\$	M\$	1.310	1.345	1.380	1.287
N. Korea			.,	-,	-,	- ,
	GDP	V NK	2,181	2.183	2.391	2.175
	Exports m\$	E\$	1.428	1.458	143,433	1.361
	Imports m\$	 M\$	14.351	14.380	16.889	14.277
Taiwan		• • •	,	,	,	,
	GDP	νт	13,118	13,438	14,469	12,556
	Exports	E\$	235,708	241,833	261,993	224,784
	Imports	M\$	199,090	204,612	222,662	189,341
Russia	•					
	GDP	VD_RU	475	477	485	470
	Exports	E\$	135,716	137,199	472,870	130,343
	Imports	M\$	42,202	42,214	42,242	42,157
	•					
China NE						
	GDP	VDF_NE	7,880	7,980	9,103	7,853
	Exports	ED_NE	1,462	1,653	1,685	1,404
	Imports	ID_NE	2,962	2,946	3,477	2,969
Russia FE	-					
	GDP	V_RF	35.5	35.9	37.5	34.2
	Exports	E_RF	36.0	36.5	38.7	34.2
	Imports	M_RF	27.7	28.1	29.9	26.2
	-	-				

# Table 6Comparison of Scenarios in 7th YearGDP, Exports, and Imports

Note: exports and imports: 1995 bil us\$, except for China NE and Russia FE, using local currency.

#### Table 7-1 Japan Acceleration Sc. vs. Base Line Sc.

			2003	2004	2005	2006	2007	2008	2009	2010
Nominal GDP. bil	GDP N	Japan acc.	514.062	518,186	536.962	557.220	585,160	609.659	634,755	667.525
,	-	Baseline	514,062	516,027	524,575	526,976	532,297	528,503	522,040	521,358
		% Deviation	0.00	0.42	2.36	5.74	9.93	15.36	21.59	28.04
GDP, real(90p.), bil.	GDP	Japan acc.	542,502	565,244	590,224	610,328	623,062	638,701	664,059	697,359
		Baseline	542,503	552,967	556,522	555,105	547,990	543,975	550,879	568,448
		% Deviation	0.00	2.22	6.06	9.95	13.70	17.41	20.55	22.68
Priv, consumption, real	CX82	Japan acc.	324,682	331,825	347,092	353,761	359,470	360,333	370,022	380,668
		Baseline	324,682	331,826	339,902	339,204	339,252	335,550	340,849	347,277
		% Deviation	0.00	0.00	2.12	4.29	5.96	7.39	8.56	9.62
Priv, residential investment, real	IH	Japan acc.	25,256	24,863	28,996	30,556	31,997	29,133	30,511	35,455
		Baseline	25,256	24,863	25,099	21,284	18,358	12,758	13,202	17,905
<b>D</b> · · · · · · ·		% Deviation	0.00	0.00	15.52	43.56	/4.29	128.34	131.11	98.02
Business investment, real	IPXSUM	Japan acc.	102,648,100	109,338,100	115,847,000	119,390,600	116,358,500	118,607,500	122,008,900	126,977,100
		Baseline	102,648,300	101,085,800	101,074,600	101,829,500	90,358,880	93,625,650	91,820,690	92,118,040
Covernment investment real	10	10 Deviation	22219.40	29201.00	14.02	47007.00	50207.00	52010 00	57595.00	61616.00
Government investment, real	IG	Baceline	33218.40	33218.40	33218 40	33218 40	33218.40	33218.40	33218 40	33218 /0
		% Deviation	0.00	15.00	33210.40	JJ210.40	51 / 1	62 01	73 35	85/10
Government consumption real	00		48 472	49 927	51 424	52 967	54 556	56 193	57 879	59.615
	0u	Baseline	48 472	49,027	49 937	50 687	51 447	52 219	53 002	53 797
		% Deviation	0.00	1 48	2.98	4 50	6 04	7.61	9 20	10.81
Exports, G&S, real	E82	Japan acc.	82.167.040	89.835.840	94.636.320	97.871.620	100,797,200	105.644.300	111.691.800	118,163,700
		Baseline	82,167,040	89.808.450	94,536,820	97.686.480	100.538.200	105.340.400	111.356.000	117,758,600
		% Deviation	0.00	0.03	0.11	0.19	0.26	0.29	0.30	0.34
Imports, G&S, real	M82	Japan acc.	78,353,210	81,861,470	89,730,390	90,852,220	92,771,570	90,932,580	94,186,520	96,773,760
		Baseline	78,353,280	80,368,980	85,302,730	84,293,950	84,845,500	82,082,690	84,604,050	85,829,790
		% Deviation	0.00	1.86	5.19	7.78	9.34	10.78	11.33	12.75
Current balance, M\$	BLCURNT	Japan acc.	129,929	196,918	209,620	194,294	190,510	205,592	257,004	303,772
		Baseline	129,929	205,768	242,019	264,010	306,582	366,709	492,191	593,890
		% Deviation	0.00	-4.30	-13.39	-26.41	-37.86	-43.94	-47.78	-48.85
Rate of utilization of GDP, %	ROUSP	Japan acc.	92.0	93.7	95.8	96.8	96.3	96.3	97.9	100.6
		Baseline	92.0	91.7	90.4	88.4	85.8	83.7	83.7	85.4
		% Deviation	0.00	2.22	6.02	9.40	12.28	14.99	16.98	17.75
Unemloyment rate, %	URATE	Japan acc.	4.74	4.67	4.48	4.25	4.10	4.06	4.00	3.82
		Baseline	4.74	4.67	4.66	4./6	4.94	5.22	5.47	5.57
CDD defleter	D	% Deviation	0.00	0.00	-3.88	-10.54	-16.95	-22.22	-26.93	-31.30
GDP denator	F	Dapari acc.	94.0	92.7	91.0	91.3	93.9	95.5	95.0	95.7
		% Deviation	0.00	-1 7/	-3.48	-3.83	-3.31	-1 75	0.87	31.7 137
Wage rate (¥1000)	W	Japan acc	5 608	5 602	5 685	5 833	6.043	6 206	6.332	6 461
hugo huto (11000)		Baseline	5 608	5 624	5 683	5 731	5 793	5 781	5 717	5 655
		% Deviation	0.00	-0.39	0.03	1.76	4.32	7.36	10.75	14.26
Priv. consumption deflator	PC	Japan acc.	101.4	98.9	99.4	100.7	104.3	105.5	105.6	105.3
		Baseline	101.4	99.9	100.7	101.3	103.4	102.7	100.6	98.0
		% Deviation	0.00	-1.02	-1.35	-0.54	0.91	2.77	4.97	7.49
Exchange rate, ¥/\$	EXR	Japan acc.	112.7	105.0	98.9	104.6	108.1	115.4	110.5	108.3
		Baseline	112.7	106.5	100.6	102.5	99.7	100.1	89.0	83.9
		% Deviation	0.00	-1.38	-1.75	2.13	8.45	15.22	24.19	29.03
Stock price (TOPIX)	STOCKPR	Japan acc.	1,197	1,542	1,696	1,604	1,849	2,068	2,024	2,041
		Baseline	1,197	1,397	1,277	1,036	1,205	1,444	1,463	1,567
	INTOD	% Deviation	0.00	10.39	32.80	54.83	53.48	43.22	38.41	30.25
Long-term interest rate, %	INTGB	Japan acc.	1.11	1.34	2.08	1.90	2.40	2.47	3.03	3.74
		M Dovision	0.00	12.00	22.00	1.29	21.00	1.00	57.09	5/ 22
Covernment debt ratio net	GGEDNRA		0.00	0.692	0.832	40.73	1 028	1 10/	1 1 8 5	1 1 3 7
dovernment debt ratio, net		Baseline	0.560	0.688	0.836	0.968	1.020	1 217	1.103	1.137
		% Deviation	0.00	0.60	-0.41	-3 13	-6.11	-9.27	-12.02	-13 67
Primary balance	PBR	Japan acc.	-0.042	-0.052	-0.058	-0.064	-0.077	-0.083	-0.085	-0.086
· · · · · · · · · · · · · · · · · · ·		Baseline	-0.042	-0.045	-0.048	-0.051	-0.058	-0.056	-0.050	-0.043
		% Deviation	0.00	16.11	19.84	25.20	34.44	48.50	68.83	98.72
do, central gov.	PBRC	Japan acc.	-0.033	-0.035	-0.035	-0.035	-0.039	-0.037	-0.035	-0.031
_		Baseline	-0.033	-0.033	-0.036	-0.039	-0.042	-0.038	-0.035	-0.028
		% Deviation	0.00	5.67	-2.72	-9.41	-6.13	-3.31	0.70	11.59
do, local gov.	PBRL	Japan acc.	-0.009	-0.017	-0.023	-0.029	-0.038	-0.046	-0.050	-0.054
		Baseline	-0.009	-0.012	-0.012	-0.013	-0.016	-0.017	-0.016	-0.015
		% Deviation	0.00	45.16	87.65	130.61	140.03	163.93	216.19	261.10
Tax & soc. insurance rev.,	TSUM	Japan acc.	146,227	149,221	155,253	163,156	168,932	178,303	188,941	199,388
		Baseline	146,227	147,031	148,027	149,067	148,247	150,870	154,339	157,679
Tatal gandation of	DODT	% Deviation	0.00	1.49	4.88	9.45	13.95	18.18	22.42	26.45
i otal population, th.	PUPI	Japan acc.	127,253	127,302	127,411	127,531	127,672	12/,81/	127,968	128,149
			127,203	127,302	127,307	127,380	127,394	127,383	127,324	127,240
			0.00	0.00	0.03	0.12	0.22	0.34	0.01	0.71

		A. Output,	2010	
		% Deviation		
		BS	Japan Accel	
V06	Forestry	_2.20%	2 0 4 %	46 50
X13	Other mining	-0.91%	10.38%	112.79
	Tautilaa			
X21	Iextlies	-0.02%	2.79%	21.48
X23	Apparels Wood	-2.86%	1.90%	39.85
X25	products	-3.21%	4.21%	67.77
X26	Utensils	-1.26%	3.54%	39.41
	Coal			
X29	products	0.25%	6.24%	50.12
X34	Plastic products	-0.17%	3.76%	31.00
	Cement	1 10%	0.00%	101.10
X35	Matal	-1.43%	8.92%	101.16
X41	products	-0.47%	3 93%	35.33
	Office	0.17/1	0.00%	00.00
X42	equipments Industrial Electric	1.28%	4.56%	24.95
X44	machinery	1.81%	4.54%	20.35
	Residential			
X53	building Non–	-4.10%	5.01%	88.75
	residential	0.76%	4.46%	40.00
<b>∖</b> 04 ¥55	pullaing	-0.76%	4.40% 13.47%	43.22
100	Other	0.02/0	13.47/0	142.43
<b>&lt;</b> 56	construction	0.00%	-1.23%	59.97
(71	real estate Information	0.00%	3.88%	7.65
K72	services Other office	0.00%	-0.30%	31.93
K73	services	0.12%	3.84%	29.09
X82	Total output	0.52%	3.62%	23.74

Table 7-2 Japan: Sectoral Output and Imports

	B. Imports, 2010						
		Annual rate	Annual rate	% Deviation			
		BS	Japan Accel	deviation			
	Livestock for						
M04	textiles	-1.00%	2.38%	26.48			
M09	Crude oil	2.28%	4.28%	14.51			
	Non-ferrous						
M12	metal mining	0.19%	4.24%	31.94			
M13	Other mining	0.08%	6.13%	50.88			
	Other ceramic						
M36	products	-1.53%	7.30%	82.47			
M37	Iron	8 87%	5 82%	-18.01			
10107		0.07/0	5.62/0	10.01			
M38	Steel	2.05%	12.83%	102.00			
	Metallic						
M41	products	-0.66%	7.33%	71.87			
	Industrial electric						
M44	machinery	2.33%	4.72%	17.49			
	Precision						
M46	Instruments	2.20%	5.52%	25.09			
M82	Total Imports	1.31%	3.06%	12.75			