

SZENT ISTVÁN UNIVERSITY

DOCTORAL SCHOOL OF MANAGEMENT AND BUSINESS ADMINISTRATION

Ph.D. DISSERTATION

THE STUDY OF THE DUTCH DISEASE IN AZERBAIJAN AND THE RESOURCE DEPENDENT ECONOMIES

(INPUT-OUTPUT ANALYSIS, LINEAR PROGRAMMING AND TIME SERIES ECONOMETRICS)

Nijat Huseynov

Gödöllő

2020

Szent István University

Doctoral School:	Management and Business Administration Sciences
Name:	Szent István University, Gödöllő
	Doctoral School of Management and Business Administration
Scientific field:	Management and Business Administration Sciences
Head of school:	Dr. Lakner Zoltán Professor, Szent István University, Gödöllő Faculty of Economics and Social Sciences Institute of Business Studies
Supervisor:	Dr. Lakner Zoltán Professor, Szent István University, Gödöllő Faculty of Economics and Social Sciences Institute of Business Studies
•••••	•••
Approved by head of PhD scho	Approved by supervisor

TABLE OF CONTENTS

TABL	LE OF CONTENTS	3
LIST	OF GRAPHS	6
LIST	OF MAPS	8
	REVIATIONS	
1. INT	TRODUCTION- CURING THE DUTCH DISEASE IN AZERBAIJAN	9
1.1.	The key problems	
1.2.	Importance of the study	
1.3.	Hypothesis Development	
	TERATURE REVIEW	
2.1.	Dutch Disease in General	
2.2.	Curing of the Dutch Disease in the World	
2.3.	Concept and application of input-output models in structural planning	
2.4.	The Current Situation in the Azerbaijan Economy	
2.5.	Gap to be studied for the Azerbaijan Economy	
	THODOLOGY AND DATA	
3.1.	Expert interviews	
3.2.	Construction and Re-Construction of I/O Tables	
3.3.	Linear Programming – Optimization	
3.4.	Data Collection and Analysis	
3.5.	International comparative analysis: The way between Norway and Nigeria	
	SULTS AND DISCUSSIONS	
4.1.	Results of Input-Output analysis of the Azerbaijan Economy	
4.2.	Interviews' outcomes	
4.3.	Results of Optimization - Goals	88
4.4.	Results of Optimization – By Economic Sectors	
4.5.	Where is Azerbaijan between Norway and Nigeria?	97
4.6.	Hypotheses Analysis	102
4.7.	New Results	103
5. CO	NCLUSIONS AND SUGGESTIONS	106
5.1.	Suggestions for the Decision Makers and Future Studies	
6. SUN	MMÅRY	
LIST	OF PUBLICATIONS AND CONFERENCE PROCEEDINGS	109
	RENCES	
	OURCES FROM THE INTERNET	
	NOWLEDGMENTS	
ACI	TO WIEDOMEN IS	141
	NDIX I	
APPE	NDIX II	125
APPE	NDIX III	128
APPE	NDIX IV	131
APPE	NDIX V	134
APPE	NDIX VI	135
	NDIX VII	
	NDIX VIII.	
	NDIX IX	
	NDIX X	
	NDIX XI	
	┴▝エ▘エメ▐▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗▗	173

LIST OF TABLES

Table 1. The share of the dominant products in the relevant total exports per selected countries	
Table 2. Economic indicators, Algeria	
Table 3. Official exchange rate (dinar per USD, period average), Algeria	
Table 4. The share of fuel export, Angola	
Table 5. Economic indicators, Angola	. 21
Table 6. Official exchange rate (kwanza per USD, period average), Angola	. 22
Table 7. Economic indicators, Ecuador	
Table 8. Fuel exports and oil rents, Gabon	
Table 9. Economic indicators, Gabon	. 24
Table 10. Economic indicators, Indonesia	. 25
Table 11. Economic indicators, Iran	
Table 12. Economic indicators, Iraq	. 27
Table 13. Economic indicators, Kuwait	. 28
Table 14. Economic indicators, Libya	. 30
Table 15. The world countries with the "Dutch disease" experience	. 39
Table 16. Format of the basic input-output tables	
Table 17. Format of OECD harmonized national input-output, symmetric industry-by-industry input-	
output table at basic price	. 43
Table 18. Leontief inverse matrixes (A matrix), selected countries	. 52
Table 19. Mean of the coefficients of Leontief inverse matrixes (B matrix), selected countries	. 52
Table 20. Variances between the matrix of mean of the coefficients and Leontief inverse matrixes (A	
matrix-B matrix), selected countries	. 52
Table 21. Square of the variances between the matrix of mean of the coefficients and Leontief inverse	_
matrixes (A matrix-B matrix), selected countries	. 53
Table 22. Sum of Square of the variances between the matrix of mean of the coefficients and Leontief	
inverse matrixes (A matrix-B matrix), selected countries	. 53
Table 23. Standard deviation sum of square of the variances between the matrix of mean of the	
coefficients and Leontief inverse matrixes (A matrix-B matrix), selected countries	53
Table 24. Up border of standard deviation Sum of Square of the variances between the matrix of mean	
the coefficients and Leontief inverse matrixes (A matrix-B matrix), selected countries	
Table 25. Down border of standard deviation sum of square of the variances between the matrix of mea	
of the coefficients and Leontief inverse matrixes (A matrix-B matrix), selected countries	
Table 26. Inverse matrix sample based on the Input Output table of Azerbaijan (C)	
Table 27. Inverse matrix for Azerbaijan and borders of standard deviation sum of square of the variance	
between the matrix of mean of the coefficients and Leontief inverse matrixes (A matrix-B matrix),	-5
selected countriesselected countries	5/1
Table 28. Input-output table for the Azerbaijan economy	
Table 29. The coefficients based on the input-output m for the Azerbaijan economy (L matrix)	. 55
Table 30. I matrix	. 33 55
Table 31. I matrix – L matrix	
	. 33
Table 32. The coefficients of the inverse matrix based on the input-output table for the Azerbaijan	5.0
economy	
Table 33: The share of the dominant products in the relevant total exports per selected countries	
Table 34. Sum of Leontief inverse matrixes	
Table 35: The summary of the sectors	
Table 36. Goal 1 - Economic Sectorial View in compare with optimal maximum output, the first group.	. 89
Table 37. Goal 1 - Economic Sectorial View in compare with optimal maximum output,	
the second group	
Table 38. Goal 2 - Employment View per economic sectors in compare with optimal maximum output.	.91

Table 39. Correlation between oil rents and total reserves	99
Table 40. Norway - correlation between oil rents and expenditures, 1995-2015	
Table 41. Nigeria - correlation between oil rents and expenditures on:	
Table 42. Azerbaijan - correlation between oil rents and expenditure on (2000-2015):	

LIST OF GRAPHS

Graph 1. Agriculture, forestry, and fishing, value added (% of GDP), average for the period between	
2002-2008	
Graph 2. Manufacturing, value added (% of GDP), average for the period between 2002-2008	
Graph 3. Fuel exports (% of merchandise exports), average for the period between 2000-2013	
Graph 4. Oil rents (% of GDP), average for the period between 2004 and 2014.	
Graph 5. Exports by product groups, millions of U.S. dollars, Ecuador	
Graph 6. Official exchange rate (CFA franc per US\$, period average), Central African Countries	
Graph 7. Official exchange rate (Indonesian Rupiah per USD, period average), Indonesia	26
Graph 8. Oil exports (% of total export) and oil revenues (% of GDP), Kuwait	28
Graph 9. Official exchange rate (Kuwaiti Dinar per USD, period average), Kuwait	28
Graph 10. Fuel exports (% of total export), Libya	
Graph 11. Official exchange rate (Libyan Dinar per USD, period average), Libya	
Graph 12. Fuel exports (% of total export) and oil rents (% of GDP), Nigeria	
Graph 13. Economic indicators, Nigeria	
Graph 14. Official exchange rate (Nigerian naira per USD, period average), Nigeria	
Graph 15. Fuel exports (% of total export) and oil rents (% of GDP), Qatar	
Graph 16. Economic indicators, Qatar	
Graph 17. Official exchange rate (Qatari riyal per USD, period average), Qatar	
Graph 18. Fuel exports (% of total export) and oil rents (% of GDP), Saudi Arabia	
Graph 19. Economic indicators, Saudi Arabia	
Graph 20. Official exchange rate (Saudi Riyal per USD, period average), Saudi Arabia	
Graph 21. Oil rents (% of GDP), United Arab Emirates	
Graph 22. Official exchange rate (Dirham per USD, period average), UAE	
Graph 23. Fuel exports (% of total) and oil rents (% of GDP), Venezuela	
Graph 24. Economic indicators, Venezuela	
Graph 25. OPEC share of world crude oil reserves, 2015	
Graph 26. GDP, millions of manat, 2005-2015	
Graph 27. GDP growth in % change, 2005-2015	
Graph 28. General government total expenditure, % of GDP constant prices, 2005-2015	
Graph 29. General government total, expenditure, in millions manat, 2005-2015	
Graph 30. General government commodity revenue, % of GDP, constant prices, 2003-2013	
Graph 31. General government state budget balance % of GDP, and debt to GDP ratio, constant price	es,
2003-2013	
Graph 32. Official available currency in USD, January 2015- January 2016	45
Graph 33. Consolidated budget revenues of 2015 & 2016	45
Graph 34. Growth rate of GDP, as percentage of the previous year	
Graph 35. World average crude oil price, per barrel, USD	
Graph 36. Sectorial structure of industry, relative to gross total, percentage	
Graph 37. Cotton production, 1,000 ton	
Graph 38. Grape production, 1,000 ton	
Graph 39. Tea production, 1,000 ton	
Graph 40. The Structure of exports by product: mineral fuels, minerals oils and related products, share	
export, in percent	
Graph 41. Exported mineral fuels, minerals oils and their products, in billions of USD	
* *	
Graph 42. Share of employees by economic regions, percent of the total.	
Graph 44. Social hangits allowed by government for uncomplexed total social allowences managers.	
Graph 44. Social benefits allocated by government, for unemployed, total social allowances, per capi	
USD	4/

Graph 45. Addressed public social aid granted, amount, of monthly addressed public social aid per	capita,
USD	47
Graph 46. Departures from the country for, permanent residence, thousands of person	47
Graph 47. Investments directed to main capital of industry, as % of total	47
Graph 48. The structure of use of directed investments directed to main capital of industry (by kind	s of
economic activity), relative to gross total, at percentage	47
Graph 49. Revenues and expenditures of the state budget, in billions USD	48
Graph 50. The transfers from the State Oil Fund of the Republic of Azerbaijan	
Graph 51. The transfers from SOFAZ, percent of the total revenue	48
Graph 52. The government expenditure on Agriculture	48
Graph 53. The structure of the loans by credit Institutions, billions of manat	49
Graph 54. The structure of the deposits by currencies, billions	49
Graph 55. The overdue loans of the total, as % of total (by 31st of October in 2016)	49
Graph 56. The sectorial breakdown of the loans, as % of the total (by 31st of October in 2016)	49
Graph 57. The official average exchange rates of manat, 2006-2014 / 2015-2016	49
Graph 58. Official foreign reserves, billions of US dollars (by 31st of Oct. in 2016)	49
Graph 59. Leontief inverse matrixes - sum of columns -the total output needed for each unit of fina	.1
demand of the relevant sector	60
Graph 60. Leontief inverse matrixes - sum of rows- the total output needed from the relevant sector	for
each unit of final demand of the whole economy	60
Graph 61. Norway, Nigeria, Azerbaijan in numbers	98
Graph 62. Correlation between oil rents and total reserves	99
Graph 63. Norway -correlation between oil rents and expenditures 1995-2015	
Graph 64. Nigeria correlation between oil rents and expenditures on.	101
Graph 65. Azerbaijan - correlation between oil rents and expenditure on	102

LIST OF MAPS

3.6	- 1	CD1	1.1	a	1.1 .1	(CD , 1	1. ,,	•	1.7
N/Ia	n I	The t	world	L'alintries y	07/1th the	"I Juitch	disease"	experience	 1.7
IVIU	ν.	1110 1	WOIIG	Countinos	WILLI LIIC	Dutten	arscase	CAPCITCHCC	 /

ABBREVIATIONS

FDI: Foreign Direct Investment

GDP: Gross Domestic Product

IMF: International Monetary Fund

OECD: Organization for Economic Co-operation and Development

OPEC: The Organization of the Petroleum Exporting Countries

UN: United Nations

USD: United States Dollars

SOFAZ: State Oil Fund of the Azerbaijan Republic

1. INTRODUCTION- CURING THE DUTCH DISEASE IN AZERBAIJAN

The Azerbaijan economy was one of the transition economies from socialist system to the market economy after the collapse of Soviet Union. In the first place, as the most of the post-Soviet Union member countries, the economy experienced many challenges. However, the existence of the vast natural resources, has been the main fostering factor in the economic development of Azerbaijan. On the other side, the concentration on the resource sector, created the basis to think about the threads and negative results of the dependent economy. In this context, there have been need to analyse and investigate the distribution of the goods and services in the whole sectors of the economy. That is why, the applying of the Input-Output framework to the Azerbaijan economy holds crucial importance in order to diversify the economy.

In spite of the importance of the input-output approach, there have been limited researches by the scholars on the Azerbaijan economy in this direction. The main common limitation of these studies has been the access to the official annual data.

The Azerbaijan economy has common characteristics with the resource dependent countries. Particularly, the recent falls in the world oil prices have challenged the whole economic sectors in Azerbaijan. The current diagnosis of the Azerbaijan economy is not only interesting for scholars, but also all of the citizens in Azerbaijan due to the existing negative impact on their daily live. The literature on the Azerbaijan economy helps to understand the main issues which are related in the current economic results in the country.

Mahmudov (2002) assessed the economic policies and the Dutch diseases symptoms in Kazakhstan and Azerbaijan. Similarly, the author indicates the importance of the fiscal and monetary policies by the policy-makers in Azerbaijan in the early 2000s. Furthermore, the efficient governance of the oil wealth and institutions are the main recommendations for the Azerbaijan economy in the study. Equally important (Auty, 2001) is the fact, that the resource dependent Caspian Basin countries, including Azerbaijan have been reforming their economy in a much more lesser degree, than the resource-poor states of the world.

Ibadoglu (2008) reveals that, the Azerbaijan economy has already infected by the Dutch disease due to the increasing the appreciation of the national currency: Manat, the decreasing of the global competitiveness, the higher allocation of the resources in the resource: oil-gas sector. Weeks (2008) points out that, the appreciation of Manat may have impact on non-resource sectors. The author claims that the decision on the fixed exchange rate policy by the policy makers with eliminating the floating regime has been the right choice. Egert (2009) has also stated that, the appreciation of the national currency, resource-based GDP growth, the higher pressures on the manufacturing sector, the risk of the deindustrialization are the main factors to support to the idea of the existing effects of the Dutch disease in the Azerbaijan economy.

Huseynov (2009) suggests that the policy makers should limit the amount of transfers from the oil wealth to the public expenditure to the economy. Hasanov (2010) discovers that, the relationship between the oil prices and exchange rate of the national currency, public expenditure are positively significant. With this in mind, the author outlines the importance of the development of the non-oil sector and diversification. However, the author does not support the statement of the existence

of the Dutch disease due to only these factors. Interestingly, Hasanov (2013) in another study concludes that the Dutch disease theory has been identifiable in the Azerbaijan economy. The author determines that the spending effect has been observed more than the resource movement effect of the Dutch disease in the Azerbaijan economy due to the higher unemployment issue. That is why, the author attracts the policy makers' attention to the developments of the non-resource tradable sectors in order to prevent further effects of the Dutch disease. Gurbanov, Nugent, and Mikayilov (2017) summarize in their group study that, the increasing public capital expenditure has not achieve to enhance the volume of the non-resource goods.

One of the best relevant studies to this research has been done by Ismayilov and Aliyev (2010). The authors have considered the Norway as 'good' and Nigeria as the 'bad' sample for the Azerbaijan economy. Interestingly, the authors could explain the Norwegian model more detailed, summarized, particularly before and after the resource boom and considered the good governance of the oil wealth as the success indicator. However, the key limitation is that, the authors have not done the comparisons between Norway and Azerbaijan and concluded only general remarks per the Azerbaijan economy.

1.1. The key problems

The recent development trends in the Azerbaijan economy has directed the author to study the possible signs of the **Dutch Diseases** in Azerbaijan. The Dutch disease is accounted as opposite effects on Dutch production caused by founded the natural gas resources, with resulting the appreciation of the real exchange rate (Corden, 1984).

Logically, analyzing the existence of the mono-economy's (oil-gas-resource dependent economy) characteristics in the Azerbaijan economy can be highlighted as the key study issue and directions in this research.

Apart from that, the inter-sectorial relations between oil-gas and the rest of economic sectors in Azerbaijan can be considered as the key study direction via analyzing the input-output approach.

1.2. Importance of the study

In addition to the existing studies on the Azerbaijan economy via applying input-output approach, starting from the literature dive in the Dutch Disease can lead us to the crucial results to understand the key important challenges.

Importantly, testing the varied econometric tools helps to ensure to assess the impact of the "infectious" oil sector in the entire Azerbaijan economy.

Last, but not least, this research contributes to the current studies via comparative analysis between Azerbaijan and OPEC-the selected countries' economies.

1.3. Hypothesis Development

The understanding the structure and finding the development concentration of the Azerbaijan economy are key critical research directions for the author. As earlier mentioned by the scholars that the probably the resource sector: oil-gas has key role in the Azerbaijan economy. Apart from the literature review, definitely, the official figures are the key means to understand the Azerbaijan economy.

If we divide the Azerbaijan economy to two subgroups as oil-gas sector (includes all resource related activities) and non-oil-gas sector (the rest of the economy), we can see clear imbalance even from the official number without putting additional research efforts. In such case, the author tries to validate potential root causes for the issues in the recent economic structure and assess possible development opportunities in Azerbaijan.

In the early research activities, the author has deepen their knowledge via studying varied issues in the resource dependent Azerbaijan economy: the volatility in the oil prices and decision making process in the governance (Huseynov, 2016, a); the non-oil-gas sector (Huseynov, 2016, b); the impacted social economic policies by the oil-gas sector revenue (Huseynov, 2017, a); the participation rates of the oil-gas (mining) and non-oil-gas sectors (manufacturing) in the total economic output (Huseynov, 2017, b); the oil-gas rents "infection" in the public spending (Huseynov, 2017, c); the public spending and the economic growth (Huseynov, 2017, d); the banking sector and the volatilities and uncertainties (Huseynov, 2018); the nearest future in terms of the lower oil prices by 2025 (Huseynov, 2019).

Getting inspiration from those studies the author has been keen on looking forward to the future economic challenges of the Azerbaijan economy.

The key research directions are to understand the research dependent economies' structures via grouping input-output tables and comparing that group with the same kind of the table for the Azerbaijan economy (Table 1).

Table 1. The share of the dominant products in the relevant total exports per selected countries

Country	Share of merchandise export, %	Exported Product
Brunei Darussalam	95	Oil
Azerbaijan	95	Oil
Saudi Arabia	89	Oil
Kazakhstan	73	Oil
Colombia	68	Oil
Norway	68	Oil
Russian Federation	67	Oil
Malta	43	Oil
Indonesia	34	Oil
Greece	31	Oil
Australia	30	Oil
Chile	45	Copper ore and Refined copper
Iceland	43	Raw aluminium and related products
Peru	27	Copper

Source 1: Fuel exports (% of merchandise export), 2011,

https://data.worldbank.org/indicator/tx.val.fuel.zs.un

Source 2: Others exports, https://atlas.media.mit.edu/en/

In this direction the author has the following hypotheses:

H1-The Azerbaijan economic structure has more common characteristics with the resource dependent economies and the number of the sectors being in the standard range (13 selected countries) has more share in the whole economy of Azerbaijan.

H2- The oil-gas sector has weaker relation with the entire economy than the selected countries' average level.

H3-The Azerbaijan economic sector in general, consumes smaller part of output from GDP, and require smaller inputs in order to produce total output.

H4-The Azerbaijan economy heavily depends on the import in matter of the non-oil sector related inputs.

H5-The manufacturing sector is far from the optimal level which is needed by the local economy.

H6-If we dive into the statistics, data analysis of the economic experiences by Norway and Nigeria, we will realize that, the Azerbaijan economy has more common feature with Nigeria in comparison with Norway.

2. LITERATURE REVIEW

2.1. Dutch Disease in General

The governance of resource economies is attracting considerable interest in the recent decades. The main fundamental characteristics of these economies are the only one booming sector and affected other sectors. However, the recent developments of these group of countries led to think about the common questions and explain the solutions. W. Max Corden and J. Peter Neary (1982) responded to these questions with developing Dutch disease model. The Authors revealed booming sector causes real appreciation, an increase in relative price of non-traded relative to traded goods. They divided the whole economy to the resource sector: including natural resources, production of any one traded goods and other sectors, particularly agriculture and manufacturing.

The Dutch disease is accounted as opposite effects on Dutch production caused by founded the natural gas resources, with resulting the appreciation of the real exchange rate (Corden, 1984). However, there are many models which explaining the lagging of manufacturing sectors due to the boom in the resource sectors. Considering these cases, promoting the manufacturing exports could be crucial step in preventing any kind of "Disease" (Macedo, 1982). Indeed, the 'Dutch Disease' has no connection with the 'Disease' notion. Further research in this issue shows that any raise in the oil or resource prices can reduce equilibrium price of traditional (non-oil) tradable goods (Edwards and Aoki, 1983).

In the resource dependent economies, the question of how to spend or manage oil money from the export has been key issue. If the government decide to spend all of this money in abroad, it will have no any contribution to the local economic growth (Harberger, 1983). In addition to this question, it has been experienced that, the booming sector attracts the production factors from the other sectors with temporary advantage. That is why, if the governments try to balance the distribution of the production inputs between the booming sector and the rest traditional tradable sectors, it could be one of the solutions to prevent the "Dutch Disease" threat (Jones, Neary and Ruane, 1986).

In the "Dutch Disease" notion, there are some general concerns. Due to the booming sector, the comparative advantage of other traditional tradable sectors may be affected and the situation can cause the reduction in long-term welfare (Krugman, 1987). On the other hand, appreciation of any local currency due to resource dependent economy, may reduce the cost of imports of capital and production inputs and at the result it could be chance for manufactory sector to take advantage (Looney, 1988). So, some tradable sectors, including manufactory sector can increase its results. However, the booming sector has negative impact on agricultural sector: as an exportable sector and manufacturing sector: as an importable sector. More importantly, a government can support these sectors in order to compete with other world market players (Benjamin, Devarajan and Weiner, 1989). The governments in resource dependent economies can apply structural policy with liberating the trade in order to reduce foreign pressure on non-tradable goods (Brahmbhatt, Canuto and Vostroknutova, 2010).

In fact, some scholars try to generalize the "Dutch Disease" term for all resource dependent economies. This kind of experience can be optimistic for some countries or pessimistic for others (Torvik, 2001).

In the modern approach to the "Dutch Disease" there are varied ideas and case studies. Particularly, the governments apply varied methods to neutralize the side effects of the disease. In the first place, the imposing the import limitations per foreign competitive goods can be considered immediate solution. However, the world economic experience shows that, this method can change the situation for the infected economy in the short-run. In spite of the temporary benefit, these kind of limitations cause the negative impacts on the local economies. Comparatively, the world statistics proved that, the more support to the export of the local manufactured goods had more positive impact over the economic development (Bresser-Pereira, 2017). Another idea is that, the distribution of the resource rents can help to diagnose the level of the "Dutch Disease". So, in case of the poor diversification of the rents, it means more symptoms of the Disease (Behzadan, et al., 2017).

The Norwegian economy has been studied by many scholars and the importance of the oil wealth in the general economic development has been emphasized since the 1970s' discoveries. Hansen (1983) observed the regional policy by the government in Norway between 1950s and 1980s. The author concluded that if Norway had been poorer, the country would have more competitive advantage. While the oil rents are getting increase, the rest of Norwegian industries lose their advantages. Under those circumstances, the author believed that Norway will experience challenges after the oil era. For this reason, Hutchison (1994) assumes that, without the existing government programs, the Norwegian economy and manufacturing sector would suffer from the adverse effect from the booming oil industry. Similarly, Holmoy and Heide (2005) indicate that, the Dutch Disease effects may hit the resource reserves in any time regardless the efficient governance. The scholars assume that, the current resource wealth may create challenges in the decision making for the long run utilization by the public.

Notwithstanding, Larsen (2004) examines the ability of Norway to prevent any risks from Resource Curse and the Dutch Disease with the efficient management of the oil-gas rents. In the study it was noted that, Norway not only has passed all its neighbors in the economic development, but also achieved sustainable economic growth in comparison with the other resource dependent economies. However, Larsen (2004) investigates the main reasons of the Norwegian economic achievement as the minimum intervention opportunity by the politicians to the oil revenues for the political campaigns and competitions. As matter of fact, the similarities in the economic development of Scandinavian countries could help to guess where Norway would be as the economy without oil.

Apart from that Norwegian economic performance proves that the resource revenue can be spent to grow (Larsen, 2005). Gylfason (2006) lists the main characteristics of the Norwegian economic development in the study. The author emphasizes the importance and power of the current law which is focused to ensure benefit to the people in Norway. Another mentioned aspect is the fiscal policy which directly, strictly controls the transfers from the Government Pension Fund for any current spending. Equally important, the author indicates the smaller size of the central government than neighbor countries and minimization of the interventions by the politicians as the less access in the decision making process. Not only the existing management but also the strong traditional democracy in Norway has been one of the main secret to make the Norwegian economy stronger than other resource dependent countries and prevent from external factors. Ville and Wicken (2012) consider Norway as the "resource based knowledge economy" due to the inter-relationship within the whole economic sectors.

The main characteristic of the Norwegian economic development is the management of resource revenue. Notably, in 1990 the Norwegian government founded the Petroleum Fund in order to manage the petroleum rents as the transfers to the Fund. However these rents were not stable, even smaller in 1990s than 1980s due to volatility in the world market and challenges in the economy. By all means application of the new fiscal policy allowed the government to spend more without lessening the oil reserves. Another key point in the fiscal policy to apply 4% limitation over the transfers from the Fund which eliminates any current effects due to the volatility in the world market (Holden, 2013). With this in mind the main goal of the government to stabilize the macroeconomy with ensuring the balance between the oil wealth and public spending (Mohn, 2016).

In the modern world economies, the Nigerian economy can be assessed as the main sample for the Dutch Disease. Similarly, the Nigerian government established the new revenue management mechanism: Nigerian Sovereign Investment Authority including 3 different Funds: Future Generations Fund (40% of the assets), Nigeria Infrastructure Fund (40% of the assets) and Stabilization Fund (20% of the assets). The Government will invest collected or received financial resources via those specialized Funds (Nigerian Sovereign Investment Authority, 2016). Ogunleye (2008) states that, the efficient management of the oil wealth and diversification can be driver for the economy in Nigeria. The author outlines the corruption, lack of transparency as the main challenges in the study. For this reason, Idemudia (2012) suggests the reforms in law and the active participation of communities. However, Oshionebo (2017) concludes that the governance of Nigerian Sovereign Investment Authority is not independent, vice versa, the main decisions and activities depend on the political powers in Nigeria.

In comparison with Norway, the participation of the politicians is higher which cause crucial challenges. As the result of the crude oil explorations, the controlling of the oil wealth has been main target for political and military regimes. That is why, the diversification of the economy, establishing transparent institutions, governance are the main important factors to eliminate the side effects from Dutch disease and resource curse (Mohammed and Lenshie, 2017).

According to the study by Taiwo, Abayomi, and Damilare (2012) the enhancing the manufacturing sector can be efficient way to diversify the Nigerian economy. On the positive side, Odularu (2008) found the positive effect of the resource production over the economic growth. However, the author acknowledges that, the positive impact is not enough to support the idea of the oil has enhanced the economic development substantially, vice versa case happened due to lack of efficient resource wealth governance and the transparency. Equally, Aliyu (2009) evaluates the relationship between the economic growth and oil prices, exchange rate in Nigeria. The study summarize that the volatility of the oil prices plays important role than the exchange rate over the economic growth. On the contrary, Iwayemi and Fowowe (2011) claim that the negative oil shocks have not affect the main macroeconomic indicators based on their findings. Conversely, Adamu (2017) characterizes the oil rents, public investments as the main driver and the external debts and demographic growth as the obstacle to the Nigerian economy. That is why, the author suggests to the Nigerian government to foster the non-oil sector in order to prevent the side effects of the Dutch disease. Dauda (2017) identifies the unemployment, the social imbalance in the living standards, inefficient the public policy, poor social defense programmers, misusing of the oil wealth as the obstacles for the Nigerian economic growth. Recently, Umoru and Onimawo (2017) have concluded that the volatility of the oil prices directs the GDP growth rate and affects the national currency in Nigeria. Another key point, the development of the non-resource sectors may

help to diversify the Nigerian economy. Interestingly, the strong positive relationship between the non-resource exports and economic growth in Nigeria over the period of 1985 and 2015, ensure to think about future of the economy positively. That is why, there is need for efficient legal, financial, transparent environment by the government in order to achieve the sustainable non-resource sectors and diversify the whole economy (Kromtit, et al., 2017).

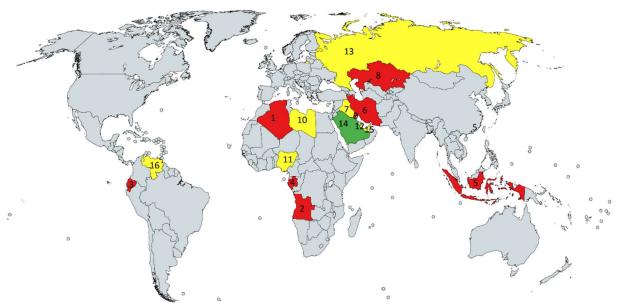
Akpan (2009) developed VAR analysis for the Nigerian economy in order to find the potential impact of the volatility of the oil prices over the macroeconomic indicators. As the result of the study, the author determines the positive impact of the volatility of the prices, on the public spending, real income and concludes that Nigeria has gotten the Dutch Disease due to the mainly the currency appreciation. Consequently, the imported goods are getting expensive to the people, which it might stimulate the export of the non-oil sector. Nevertheless, the Nigerian economy has not experience such development in the non-oil sector. That is why the author strongly recommends to ensure the variety of the revenue sources and efficient aggressive saving from the oil rents.

The strong volatility of the economy has been the main challenge to realize any state economic programs or reforms. In case of the Nigerian economy, the currency depreciation, the increasing prices of the imported products can create many problems for the local consumers (Ike, Okodua and Bagzibagli, 2016). Moreover, the balance between the level of investments and savings is crucial in the management of the oil wealth. In this purpose the Nigerian government should minimize the effects from the oil price shocks and misleading production volume. In the short-run any decision in favor of the large investment projects from current resource revenue or debt sources would be the worst choice for the Nigerian economy (Ncube and Balma, 2017).

Additionally, the fiscal policy in Nigeria has been the factor in order to decide the governance of the oil wealth. Aregbeyen and Fasanya (2017) finds out the strong positive relationship between the world oil prices and public spending trends, planning in Nigeria since the 1970s. Not only this study, but also Apere (2017) proves that the resource revenue has been the main source for the public expenditure in Nigeria since 1981. In other words, the government has spent more in the case of the higher oil prices. As the result, the main symptom of the Dutch disease: resource movement from non-resource sector to the oil industry has been observed and followed by imbalance in the industry, higher unemployment. The author emphasizes that the government went to the cuts in the public spending whenever the oil prices were low.

2.2. Curing of the Dutch Disease in the World

In the recent economic developments in the resource dependent economies have showed some general and specific features of this Disease (Map 1, Table 15). On these grounds, it would be better to investigate the countries which had the same problem. That is why, OPEC (Organization of the Petroleum Exporting Countries) should be considered as a first.

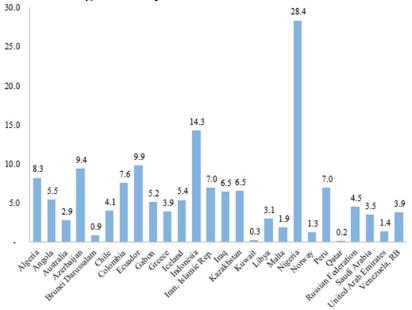


Map 1. The world Countries with the "Dutch disease" experience

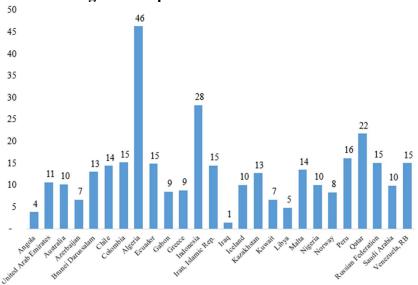
Source. The Author's own edition, based on in-depth analysis of literature

Before diving to the historical milestones of the selected countries, Graph 1-4 can lead us the general idea about the similarities and varieties in terms of the key economic indicators. Graph 1 shows that as the traditional sector agriculture has potential in Nigeria with producing one third of the total output in the economy. The lowest numbers are visible in the Arabic countries.

Graph 1. Agriculture, forestry, and fishing, value added (% of GDP), average for the period between 2002 and 2008.

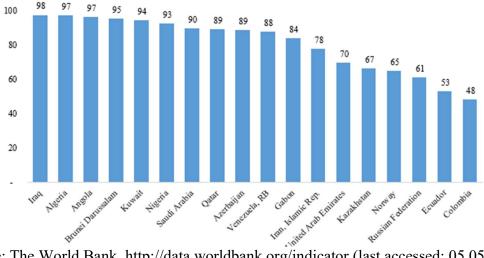


Graph 2. Manufacturing, value added (% of GDP), average for the period between 2002 and 2008.



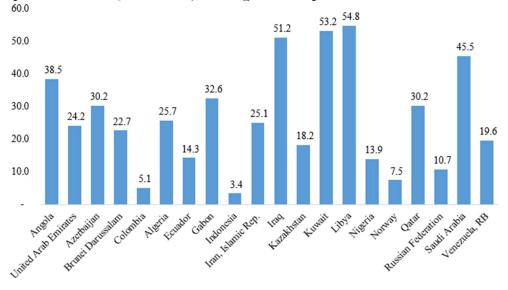
Source: The World Bank, http://data.worldbank.org/indicator(last accessed: 05.05.2020) Graph 2 presents that, manufacturing sector had important role in the process of the creating the total output of an economy in Algeria and Indonesia. In Iraq, Angola and Libya the relevant indicator of the economy had weaker participation rate in a country's general performance.

Graph 3. Fuel exports (% of merchandise exports), average for the period between 2000 and 2013.



Graph 3 reveals the central factor and reason of the key challenges of the resource dependent economies. Not surprisingly, Azerbaijan is in the highest cluster of the countries where the energy products are dominant in the entire export portfolio of an economy with more than 80% of the share. This visualization makes easier to the readers to understand the key criteria in the selection process of the countries by the author.

Graph 4. Oil rents (% of GDP), average for the period between 2004 and 2014.



Source: The World Bank, http://data.worldbank.org/indicator(last accessed: 05.05.2020) Regardless of the negative sides of the being resource dependent economy, the majority of the selected countries are benefiting from the oil exports without huge utilisation of the resources and which brings varied responsibilities in terms of the spending those wealth efficiently and effectively (Graph 4).

In this part of the study author attempts to show the historical changes in the macroeconomic indicators of the resource dependent economies. The result of this data analysis will lead us to understand the similarities and varieties in the selected economies in terms of the governance, decision-making issues. The author aims to utilise those economic milestones of the resource dependent economies in the understanding process of the small oil-gas exporting state: Azerbaijan, where we may identify whether there have been any sign of the learning from the global "mistakes".

The main idea to dive into the historical data per each countries is to identify the starting point of the Dutch Disease signs from the very beginning via showing the dramatic changes in the recent decades.

Algeria is the member of OPEC since 1969 with the 1.0% share of world crude oil reserves (Graph 25). After 1974, the oil export was more than 90% of all merchandise export at the first time and never been less than this level till nowadays. Subsequently, the most affected sector was manufacturing sector (Table 2).

Table 2. Economic indicators, Algeria

			0			
Indicator Name	1973	1974	1980	1986	1990	1998
Agriculture, value added (% of GDP)	7.0	7.4	8.5	10.2	11.4	12.5
Manufacturing, value added (% of						
GDP)	16.5	9.0	10.6	15.7	11.4	9.9
Oil rents (% of GDP)	12.2	30.4	33.7	6.7	13.7	8.9
Fuel exports (% of merchandise						
exports)	83.0	92.5	98.4	97.5	96.5	96.2

Source: The World Bank, http://data.worldbank.org/indicator (last accessed: 05.05.2020)

Monetary policy has been so volatile due to the dominant the oil-gas sector. Initially, the Algerian government has selected exchange rate in the first decade since the independence. However, we can see that the devaluation of the dinar was one of the vital tools to protect the economy's competitiveness (Table 3).

Table 3. Official exchange rate (dinar per USD, period average), Algeria

Indicator Name	1960	1974	1986	1990	1998	1999	2000	2009	2010	2011	2012	2014	2015
Exchange rate													
(Dinar per													
USD, period													
average)	4.9	4.2	4.7	9.0	58.7	66.6	75.3	72.6	74.4	72.9	77.5	80.6	100.7

 $Source: The\ World\ Bank,\ http://data.worldbank.org/indicator/pa.nus.fcrf$

(last accessed: 05.05.2020)

Another key thing to remember about the Algerian economy, there had been repressed inflation in 1970s (Standaert, 1989). Algeria has spent oil rents, particularly received during the 1970s, to the industrialisation. On the contrary, the economic results proved that, these attempts had been unsuccessful. Notwithstanding, it was one of the main decisions to turn situation to the economic collapse, in case of oil price falls in 1980s. Subsequently, the Algerian government had to go to the reforms which should solve additional problems such as unemployment (30% of the

workforce) in 1990s. All in all, the best recommendations for the resource dependent Algerian economy, could be to save revenues from the oil-gas export in order to prevent Dutch disease, to promote FDI to the manufacturing sector with attracting the labour force from the rest sectors of the economy (Auty, 2004).

The Algerian economy has experienced the "Dutch Disease" in the last decades: the manufacturing and agricultural sectors have been so weak, Algerian economy has been less diversified, non-oil GDP has been less than oil GDP (Chekouri, Chibi and Benbouziane, 2013).

The sudden the falls in the world oil prices in 1980s had affected the Algerian industrialisation policy badly with the risk of financing the economic activities. In other words, the macroeconomic conditions in that time disclosed the susceptibility of the Algerian economy. That is why, the government decided to open the public companies to the privatization with attracting FDI. Due to political instabilities and declining oil-gas sector, the Algerian government agreed on the Structural Adjustment Plan offered by IMF with the changes in the economic policy (Teulon and Bonet Fernandez, 2014).

Moreover, the all revenues from the oil-gas export did not affected the economic growth significantly. The main factor in the Algerian economic history was the mishandled institutional system (Akacem and Cachanosky, 2015).

There has been positive relation between oil export revenue and economic growth; negative relation between oil revenue volatility and economic growth. It proves how the economy depend on the oil sector. Before the boom in the oil sector, Algeria was one of the key exporter of the agricultural products to the South European countries (Chekouri and Chibi, 2016).

Not only the oil-gas export of Algeria, but also the system of socialism and the difficulties in the economic transition process have played huge role in creating today's unsuccessful and resource dependent economy (Nouibat, 2016).

Angola has been the member of OPEC since 2007. The share of oil-gas sector in the total merchandise exports has been more than 90%. Subsequently, oil rents equals to almost to the half of GDP (Table 4).

Table 4. The share of fuel export, Angola

Indicator Name	1969	1970	1971	1972	1973	1974	1978	1979	1980	1981	1990	1991
Fuel exports (% of merchandise												
exports)	7.2	13.4	19.9	26.8	31.4	51.6	65.7	71.9	78.0	82.1	93.5	94.8

Source: The World Bank, http://data.worldbank.org/indicator (last accessed: 05.05.2020)

Due to booming oil-gas industry and the appreciation of Kwanza, the agriculture and manufacturing sectors have lost their competitiveness and role in producing the nation's GDP (Table 5.6).

Table 5. Economic indicators, Angola

Indicator Name	1990	1991	1995	1996	1997	1998	1999	2000	2001
Agriculture, value added (% of GDP)	18.4	24.2	7.3	7.0	9.0	13.0	6.3	5.7	8.2
Manufacturing, value added (% of GDP)	5.1	6.3	4.0	3.4	4.4	6.3	3.2	2.9	3.9
Oil rents (% of GDP)	30.3	20.9	52.7	49.5	46.9	29.8	48.6	64.0	51.4

Source: The World Bank, http://data.worldbank.org/indicator (last accessed: 05.05.2020)

In fact, the most of the revenue from oil and diamond have been used for the import of the goods. However, even this circumstance had no crucial impact on the real exchange rate of Kwanza. Accordance with the features of the "Dutch disease" concept, the agriculture sector of the Angolan economy suffered and export these goods fell to almost zero level (Kyle, 2002).

In order to stabilize the national currency, the Angolan central bank applied the new exchange rate policy with purchasing the local currency. Due to huge resource revenue, Kwanza appreciated considerably. That is why the devaluation of the currency was only way to manage the economic situation (Kyle, 2005).

In the case of Angola, the main question is about how to manage or spend the oil revenue, not to save. The government should spend this revenue to establish capital investments and promote FDI. The inflation should be stabilized to the single figure and the banking system should be reorganised. Apart from those, the transparency should be ensured in all direction of the fiscal policy. It is obvious that, the military spending should be cut. Besides that, non-oil sector, private consumption, small enterprises need to be protected and FDI to be promoted (Collier, 2006).

Before the exploration of the oil reserves, the agricultural goods including coffee, sisal, maize, sugar, and cotton, wood were amounted two-thirds the total export. Even in the period of the booming oil-gas sector the economy could not develop and get benefits from the additional revenue due to political instability, civil war, changes the political regimes, corruption, less transparency and higher military expenditure. Notably, the government's efforts to create the environment for privatization of the public companies caused vice effect. The most of those companies were centralized in the some group people's hand (Ferreira, 2006).

Table 6. Official exchange rate (kwanza per USD, period average), Angola

Indicator																
Name	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Official																
exchange																
rate (LCU																
per USD,	10.0	22.1	43.5	74.6	83.5	87.2	80.4	76.7	75.0	79.3	91.9	93.9	95.5	96.5	98.3	120.1
period																
average)																

Source: The World Bank, http://data.worldbank.org/indicator/pa.nus.fcrf (last accessed: 05.05.2020)

Angolan economy has been extremely dependent on oil export in the last decades. The most striking result of this situation are the appreciation of the real exchange rate and centralization of economy in the capital region (Kyle, 2007).

In comparison with other OPEC member countries, the brunt of the oil export on the Ecuadoran economy (OPEC member: 1973-1992 and 2007-now) has been less. So, the share of the merchandise export did not change dramatically. However, due to the booming oil sector, the agricultural products' competiveness was less than previous years. On the contrary, the amount of agricultural raw materials could strength its position in the country's export. All in all we can see

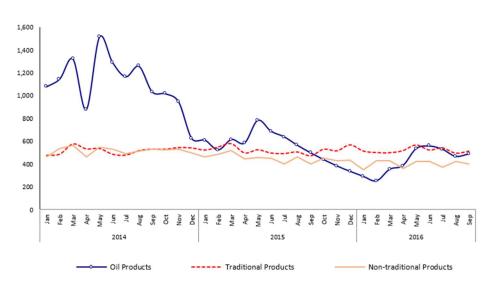
that, the Ecuadorian oil export has been volatile to the changes in the world oil market (Table 7 and Graph 5).

Table 7. Economic indicators, Ecuador

Indicator Name	1972	1973	1974	1983	1994	1998	2004	2008	2014
Agricultural raw materials exports (% of merchandise exports)	2.9	2.1	1.4	0.8	2.5	4.9	5.3	3.6	3.9
Agriculture, value added (% of GDP)	27.2	26.9	25.0	17.4	23.0	18.3	10.4	9.3	9.1
Manufacturing, value added (% of GDP)	17.1	16.4	17.0	18.2	20.8	18.2	13.5	14.2	14.5
Oil rents (% of GDP)	1.5	5.0	10.3	13.0	7.3	4.2	16.5	25.3	13.7
Fuel exports (% of merchandise exports)	18.4	53.2	62.0	73.9	34.6	21.4	54.3	61.7	53.1

Source: The World Bank, http://data.worldbank.org/indicator (last accessed: 05.05.2020) The economic development in Ecuador is divided to periods: till 2000 and after 2000 (or post dollarization). Not surprisingly, the government could not achieve to protect the whole economy from the negative effects due to focus on the resource sector. However, recently some new limitations have been applied to the import of goods in order to minimize the losses of local production in the manufacture and agriculture sectors (Cori and Monni, 2014).

Graph 5. Exports by product groups, millions of U.S. dollars, Ecuador



Source: Central Bank of Ecuador, https://www.bce.fin.ec/en/index.php/economic-information (last accessed: 05.05.2020)

Gabon (OPEC member: 1975-1995 and 2016-now) is one of the richest countries with the forest resources in Africa. After getting the independence, the growing oil industry changed the country's economic development direction. Not surprisingly, the booming oil sector had negative impact on the agriculture and other non-mineral traded sectors with losing their competitiveness (Wunder, 2003). The fuel export amounted more than 80% of the total export in the last decades (Table 8).

Table 8. Fuel exports and oil rents, Gabon

Indicator Name	1975	1977	1982	1993	1994	2000	2001	2002	2004	2005	2006	2007	2008	2009
Oil rents (% of														
GDP)	38.3	35.4	46.6	34.4	37.3	48.0	37.9	35.7	42.0	49.5	50.0	45.7	49.3	36.7
Fuel exports														
(% of														
merchandise														
exports)	82.9	81.1	84.6	89.3	86.6	83.3	83.0	83.8	76.2	84.0	85.6	83.4	89.2	83.1

Source: The World Bank, http://data.worldbank.org/indicator

The country's economy can be definite example to the "Dutch disease" due to the booming sector (Table 9). In the last decades, the percentages of the agriculture and manufacture in GDP decreased or were weak, the local demand to the food was supplied by imports (Zafar, 2004).

Table 9. Economic indicators, Gabon

Indicator Name	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Agriculture, value													
added (% of GDP)	6.5	5.9	5.1	5.2	5.3	4.5	5.4	4.3	3.7	3.7	3.6	3.9	4.7
Manufacturing, value													
added (% of GDP)	2.9	3.0	2.5	2.7	2.1	1.9	2.5	2.1	2.4	2.7	3.0	3.1	3.0

Source: The World Bank, http://data.worldbank.org/indicator

The enlarged government role, less diversified industrial products, high level of urbanisation have been the main features of the "Dutch Disease". Naturally, the country's economy needs huge investment to boost social and economic development. In this direction, the Gabonese government should cooperate with international institutions more closely. However the high level involvement of the government in the economy, corruption, business environment are the main challenges to prevent the "Dutch Disease" (Soderling, 2002).

The local currency is the CFA Franc which used by 6 Central African Countries. Due to huge oil export, the exchange rate of the currency has been appreciated. That is why the depreciation of the currency could be the main solution to stabilize the whole economic competitiveness (Graph 6).

Graph 6. Official exchange rate (CFA franc per USD, period average), Central African Countries



Another member country: Indonesia (OPEC member: 1962-2009, 2016-now) has experienced with the same kind of threads when oil exports was starting to boom, notwithstanding, the State Oil Company: Pertamina could achieve to diversify the huge oil revenue to different sectors, including steel industry, real estate, tourism, construction of the fertilizer plant. At the same time, after debt crisis of the Company, the government started to apply strict limitations on the foreign borrowing. So, no one could get any foreign loans without permission by the Central Bank and Ministry of Finance. In spite of this, Indonesian government succeeded to manage huge oil revenues, to balance the state budget with spending to the non-oil sector, to ensure efficient monetary policy in order prevent the "Dutch Disease" (Usui, 1997).

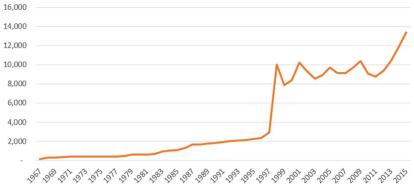
Table 10. Economic indicators, Indonesia

Table 10: Debublic materials, Indonesia															
Indicator Name	1970	1974	1975	1980	1982	1988	1989	1990	1995	2000	2008	2009	2010	2011	2012
Agricultural raw materials exports (% of merchandise exports)	34.8	16.5	12.3	14.1	5.8	10.5	9.3	5.0	6.6	3.6	6.4	4.5	6.5	7.5	5.9
Agriculture, value added (% of GDP)	44.9	31.1	30.2	24.0	23.9	22.5	21.7	19.4	17.1	15.6	14.5	15.3	13.9	13.5	13.4
Manufacturing, value added (% of GDP)	10.3	9.2	9.8	13.0	11.9	19.7	19.7	20.7	24.1	27.7	27.8	26.4	22.0	21.8	21.5
Fuel exports (% of merchandise exports)	32.8	70.2	74.9	71.9	82.4	39.5	40.2	44.0	25.4	25.4	29.1	28.4	29.7	34.1	33.6

Source: The World Bank, http://data.worldbank.org/indicator

The percentage of the agricultural products raw material export in the total export and agriculture in GDP fall several times. Apart from that, in some years, the fuel exports was the main products of the external sector. However, in the last years, we can say that, the Indonesian economy has been more diversified and minimize the export concentration risks (Table 10).

Graph 7. Official exchange rate (Indonesian rupiah per USD, period average), Indonesia



Source: The World Bank,

http://data.worldbank.org/indicator/pa.nus.fcrf, (last accessed: 05.05.2020)

In fact, devaluation is one of the key tool to stabilize the domestic production and enhance the competitiveness of the local goods in the world market. In this context, the Indonesian government went to devaluation in 1978 (Graph 7), and this decision was appropriate and efficient (Usui, 1996).

The Iranian economy (founder member of OPEC and holds 13% of proven OPEC oil reserves, Graph 25) could succeed to protect agricultural and manufactural production and to diversify economic activities due to the oil revenues. The Iranian government applied the new agricultural policy, particularly to protect sugar beet industry, with granting subsidies to the peasants and small producers during the oil export booms (Majd, 1991). By contrast, the Iranian economy has been more sensitive to the oil price changes: any increase in the prices enhanced the exchange rate of the local currency and vice versa (Farzanegan and Markwardt, 2009). The Iranian currency, Rial has been denominated and affected from the oil-gas export. The purchasing power of the currency has fallen dramatically (Malekan, 2010).

Table 11. Economic indicators, Iran

Indicator Name	1963	1964	1974	1975	1976	1977	1997	1998	2000	2002	2003	2004	2005	2006	2010
Agriculture, value added (% of GDP)	23.5	21.9	7.0	6.8	6.6	5.8	9.8	11.6	9.1	7.9	7.5	7.2	6.6	7.2	6.9
Manufacturing, value added (% of GDP)	11.0	11.2	8.8	9.3	9.6	9.5	17.5	16.9	16.7	15.2	15.0	14.5	13.5	13.5	12.0
Fuel exports (% of merchandise															
exports)	86.6	88.0	97.3	97.0	97.6	99.2	85.7	81.1	88.7	70.1	79.1	78.5	82.6	82.8	70.8

Source: The World Bank, http://data.worldbank.org/indicator

The share of fuel exports in the total export was more than 70% and in some years reached to 97% (1974). Besides that, the manufacture sector could perform better in the producing the Nation's product. Unfortunately, there had been dramatic fall in the share of the agricultural products in GDP (Table 11).

In order to stabilize the inflow of the oil-gas revenue, the Iranian government created the National Development Fund. Initially, the main task of the Fund was how to balance the State Budget. In fact, the government has achieved to transfer only 20-30% of the oil-gas revenue for the future investment purposes. The agricultural, environmental projects, promoting private and business sectors, industry, tourism, creating new workplaces are the main investment priorities for the Fund (National Development Fund of Islamic Republic of Iran, 2016).

Similarly, the recent wars, including 1980-1988 Iran-Iraq, the regime change (2003) and current situation had crucial impact on the Iraq's economy (founder member of OPEC and holds 12% of proven OPEC oil reserves, Graph 25). On the other hand, in any case, as the member country, the oil export has been playing the main role in the economy (Table 12). Abundant resources caused dependent economy in the last decades (Looney, 2004).

Table 12. Economic indicators, Iraq

Indicator Name	1972	1973	1974	1975	1976	2000	2001	2002	2004	2005	2006	2007	2009	2010	2012
Fuel exports (% of															
merchandise exports)	5.9	6.4	20.3	34.0	33.7	97.1	87.7	95.3	96.0	96.4	99.6	99.7	98.6	99.6	99.7

Source: The World Bank, http://data.worldbank.org/indicator

The recent economic development is divided two periods: before and after the 2003 war. The 1980-1988 Iran-Iraq war almost caused to the economic collapse in the Iraqi economy. Even after occupation of Kuwait, Iraq experienced the worst economic crisis in its history. The government started to print money finance the economic activities. The Iraqi government spent huge part of oil revenues to the inefficient subsidies to compensate state-owned companies' losses. Apart from those, the limitations on the foreign investments were the main challenges for the economic development. Before the war, the most of the labour force was working in the government sector. Furthermore, the after huge oil revenue inflow, in 1979, the government started to invest these resources in order to create the non-oil sector. In the light of the UN sanctions, Iraq was allowed to export the oil only for importing the food. After the 2003 war, the economic and political systems had been changed, and the economy was opened to the FDI. The new government applied floating exchange for Dinar (Foote, et al., 2004).

With the vast of oil reserves, the oil export has been the key goods for the Kuwait (founder member of OPEC and holds 8.4% of proven OPEC oil reserves, Graph 25) Economy in the international trade. As other resource dependent economies, Kuwait has experienced with challenges due to dominant sector. The fuel export has been more than 80% of the total merchandise export, however oil rents has been more sensitive to the price changes in the world market (Graph 8). In fact, Invasion of the Kuwait by Iraq caused also losses to the oil production (Looney, 1991).

120
100
80
60
40
20
00 Fuel exports (% of merchandise exports)

Graph 8. Oil exports (% of total export) and oil Revenues (% of GDP), Kuwait

Source: The World Bank, http://data.worldbank.org/indicator

If we investigate the possibility the "Dutch Disease" in the Kuwaiti economy, we will see many factors which contradict each other. So, the increasing revenue from the booming oil export has caused the depreciation of the currency (Al-mulali and Che Sab, 2010).

The Central Bank of Kuwait has been applied fixed exchange rate regime (Graph 9). The main goal of the exchange rate policy is to maintain the stability of the Kuwaiti Dinar in comparisons with the foreign currencies. Apart from that, the Central Bank has changed slightly in order to protect the purchasing power of the national currency.

Kuwait established sovereign wealth fund: Kuwait Investment Agency in 1953 in order to achieve a sustainable investment return on the financial reserves (Kuwait Investment Authority, 2016).

Graph 9. Official exchange rate (Kuwaiti dinar per USD, period average), Kuwait

Source: The World Bank, http://data.worldbank.org/indicator/pa.nus.fcrf, (last accessed: 05.05.2020)

On the other side, the shares of the agriculture and manufacture in GDP have been so weak in the last years (Table 13). From this point of view, there are some features of the "Dutch Disease".

Table 13. Economic indicators, Kuwait

Indicator Name	2010	2011	2012	2013	2014
Agriculture, value added (% of GDP)	0.42	0.41	0.33	0.33	0.41
Manufacturing, value added (% of GDP)	5.52	5.20	5.51	5.46	5.38

Source: The World Bank, http://data.worldbank.org/indicator

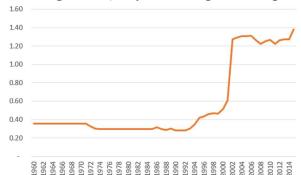
Libya is the member of OPEC (1962) with holding 4% of oil reserves of the Organisation (Graph 25). In the last decade, the revolution and war were the key factors to affect the Libyan economy. The economy has gotten huge benefits from oil revenue since 1970s. However, the oil shocks had negative impacts on the whole economy with the appreciation of the real exchange rate and losing the competitiveness of the non-oil traded goods (Ali and Harvie, 2012). Certainly, the percentage oil-gas products has been more than 90% of the total merchandise export in the last decades (Graph 10).

102.0 100.0 98.0 96.0 94.0 92.0 90.0 88.0 1962 1964 1966 1968 1970 1972 1974 1976 1978 1980 1983 1985 1987 1989 1997 2007 2009

Graph 10. Fuel exports (% of total export), Libya

Source: The World Bank, http://data.worldbank.org/indicator

The Libyan Dinar had fixed exchange rate till early 1990s with the small changes as a result of the movements in the exchange rates of the world currencies (Graph 11). The Central Bank applied the new exchange rate regime and went to devaluations of the Libyan Dinar in order to minimize black market, ensure better and free environment for the commercial banks and enhance the country's competitiveness (The Central Bank of Libya, 2016).



Graph 11. Official Exchange rate (Libyan dinar per USD, period average), Libya

Source: The World Bank, http://data.worldbank.org/indicator/pa.nus.fcrf (last accessed: 05.05.2020)

By all means, the Libyan economy has been affected by the "Dutch Disease" due to the less role in the producing the nation's wealth (Table 14). In this context, non-oil trade sector has lost it's competitiveness. The social public expenditure has been one of the right decision by the Government. The Libyan government should consider the revenue, income, spending, exchange rate, current and technology effects in order to minimize the consequences of the "Dutch disease" (Ali and Harvie, 2013).

Table 14. Economic indicators, Libya

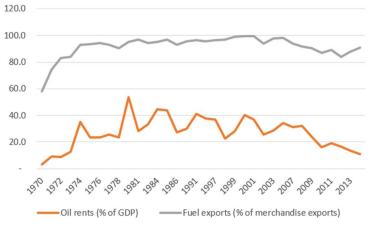
Indicator Name	2002	2003	2004	2005	2006	2007	2008
Agriculture, value added (% of GDP)	5.2	4.3	3.0	2.3	2.0	2.1	1.9
Manufacturing, value added (% of GDP)	3.1	6.3	5.1	4.7	4.5	4.5	4.5

The Libyan government established Libyan Investment Agency in 2006 in order to manage the resource revenue efficiently. However, the most part of the assets have been invested in the abroad (Libya Investment Agency, 2016).

Nigeria is the member of OPEC (1971) with holding 3.1% of oil reserves of the Organization (Graph 25). The Nigerian economy is the best case to talk about the 'Dutch Disease' effects and results. So, the huge revenue from the oil export could not contribute to the economic development, on the contrary, the resource dependent economy increased the poverty level of the Nigerian people (Otaha, 2012). Due to booming and leading oil export the manufactural products have lost its competitiveness, particularly after 2000s (Graph 12). On the other hand, Olusi and Olagunju (2005) reveal that the agriculture sector has been as traditional revenue source and the economy has been suffering from the Dutch Disease symptoms in Nigeria.

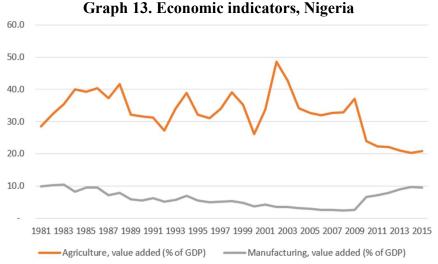
In fact, the share of the fuel exports has been between 80-100% in the total merchandise export and the oil rent in GDP has been between 20-40% since 1970s. On the contrary, the world oil prices play the key role in organizing the resource revenues. That is why, the resource revenue of the government has fluctuated in the last decades. The recent fall in the world prices has taken the country's economy the same economic level in 1970s.

Graph 12. Fuel exports (% of total export) and oil rents (% of GDP), Nigeria



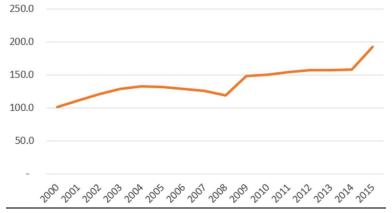
Source: The World Bank, http://data.worldbank.org/indicator (last accessed: 05.05.2020) The money inflow from the resource export was spent inefficiently to the infrastructural projects. The government applied over intervention to the manufacture sector and it had negative impact on related export (Auty, 1988). Due to booming and leading oil export the manufactural products

have lost its competitiveness, particularly after 2000s (Graph 13).



In fact, the oil shock in the world resource market, had huge impact on the Nigerian national currency: Naira (Olomola and Adejumo, 2006). Apart from that, the volatility of oil prices had less impact on the output and inflation rate in Nigeria from 1970 to 2003 (Olomola, 2006). The national currency has been depreciated in the last decade dramatically to the dependent economy (Graph 14).

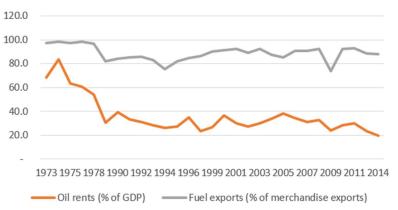
Graph 14. Official exchange rate (Nigerian naira per USD, period average), Nigeria



Source: The World Bank, http://data.worldbank.org/indicator/pa.nus.fcrf, (last accessed: 05.05.2020)

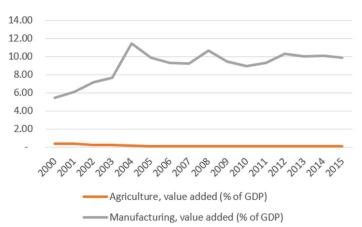
Qatar is the member of OPEC (1961) with holding 2.1% of oil reserves of the Organisation (Graph 25). In comparisons with other the Persian Gulf countries, Qatar has less oil resources. That is why, the Qatari industry has been diversified with the oil revenues since 1970s. At the same time, the Government spent the crucial part of the financial resources to the industrial infrastructure and heavy industry (Looney, 1994).

Graph 15. Fuel exports (% of total export) and oil Rents (% of GDP), Qatar



According to the World Bank (Graph 15-16), the booming the resource sector had impact on the role of the agriculture sector in the last decade. Not only the export concentration, but also the climate is the other key factor in the agricultural development. On the contrary, the government could succeed to enhance the manufacture sector's performance since 2000. Unfortunately, these efforts have not been enough to reduce the dependence on the oil-gas sector.

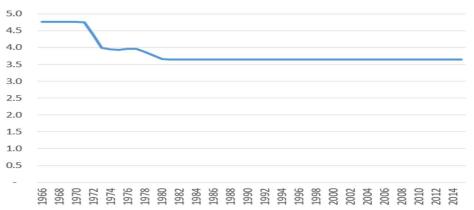
Graph 16. Economic indicators, Qatar



Source: The World Bank, http://data.worldbank.org/indicator (last accessed: 05.05.2020)

Certainly, in the economies which faced with the "Dutch Disease" threats, the exchange rates of the national currencies appreciates (Graph 17). In the Qatari Case, the Qatar Central Bank has applied the fixed exchange rate regime against the USD since 1980s. However, the commercial banks have been allowed to operate with small margins on the exchange rate. The main investment policy of the Central Bank is to achieve stable exchange rate to the USD (Qatar Central Bank, 2016).

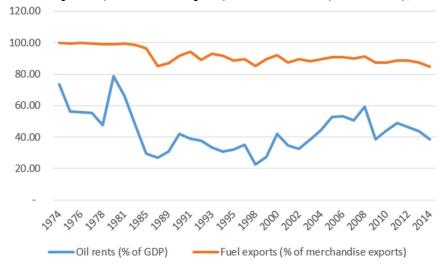
Graph 17. Official exchange rate (Qatari riyal per USD, period average), Qatar



The Qatari government established Qatar Investment Authority as the reserve fund in 2005. Similarly, the crucial part of the assets have been invested in the abroad, particularly to the listed, unlisted equities, real estates, securities, cash, foreign currencies, the shares of the international companies: Volkswagen, Total and the other directions (Qatar Investment Authority, 2016).

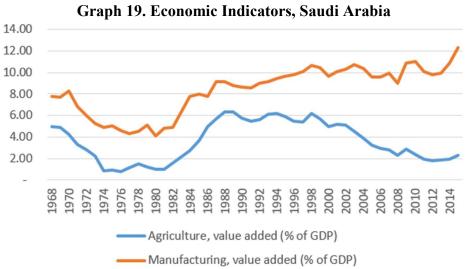
In another resource dependent country: Saudi Arabia (founder county of OPEC with 22% of the proven oil reserves, Graph 25) the diversification and minimize the volatility of the economy have been the main challenge since the booming oil export. In reality, the fuel products have been amounted between 80-99% of the total merchandise export. At the same time, the oil rents peaked in 1974 and 1980 to the 80% of GDP (Graph 18).

Graph 18. Fuel exports (% of total export) and oil Rents (% of GDP), Saudi Arabia



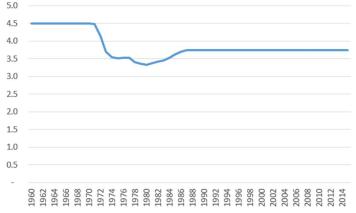
Source: The World Bank, http://data.worldbank.org/indicator (last accessed: 05.05.2020)

The Saudi Arabian government have been adopted the state economic plans: 1970-75 and 1975-1980. In the both plans, the development of the infrastructure, economy and human resources were the main directions (Looney, 1992). Apart from those, industrial development, particularly related to the oil-gas production, has been priority for the Government (Looney, 1988). On the other side, the agricultural and manufactural products lost its share in GDP, while the second one has been enhanced in the comparison (Graph 19).



Source: The World Bank, http://data.worldbank.org/indicator (last accessed: 05.05.2020) After the boom in the oil-gas sector, the national currency has been affected in the last decades. Saudi Arabian Monetary Agency acts as a Central Bank in order to manage foreign exchange reserves, monetary policy and stabilise other financial institutions (Saudi Arabian Monetary Agency, 2016). In 1961, the new banknotes of 1, 5, 10, 50, and 100 were issued. After the appreciation of the currency, SAMA adopted the fixed exchange rate regime (Graph 20).

Graph 20. Official exchange rate (Saudi riyal per USD, period average), Saudi Arabia



Source: The World Bank, http://data.worldbank.org/indicator/pa.nus.fcrf (last accessed: 05.05.2020)

United Arab Emirates has been the member of OPEC since 1961 with 8.1% of the proven oil reserves (Graph 25). The oil rents have played huge role in the economic development. In the

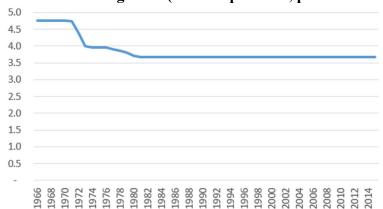
1970s the oil revenue went up 60% of GDP, while, in the next decades, it changed between 10% and 30% (Graph 21).

It is not clear to prove that, "Dutch Disease" has affected the United Arabian Economy dramatically. However, the government succeed to improve the non-oil sectors, particularly, tourism and trade in the some cities. The manufacturing sector has been more affected sector (Al-Mutawa, A., 1996).

70.00
60.00
50.00
40.00
30.00
20.00
10.00

Graph 21. Oil rents (% of GDP), United Arab Emirates

Source: The World Bank, http://data.worldbank.org/indicator (last accessed: 05.05.2020) The national currency: Dirham has had the fixed exchange rate since 1980 due to the huge financial reserves from the oil export (Graph 22). In fact, this monetary policy ensured the sustainability of the currency and caused a low inflation rate. In spite of this experience, the government should continue diversify the economy with investing to the non-oil sector, including, human resources, financial markets (Elhiraika and Hamed, 2002).

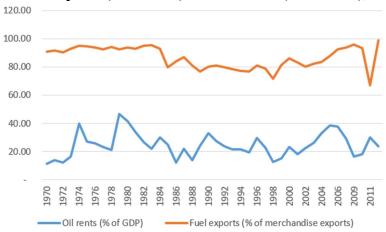


Graph 22. Official exchange rate (Dirham per USD, period average), UAE

Source: The World Bank, http://data.worldbank.org/indicator/pa.nus.fcrf (last accessed: 05.05.2020)

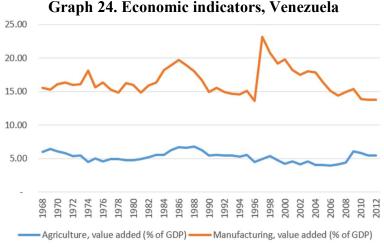
The Government has established several institutions and funds in order to ensure the sustainable development of the economy. Abu Dhabi Investment Authority (since 1976) has diversified its assets to the equities, the government bonds, credits, real estates, infrastructural projects (Abu Dhabi Investment Authority, 2016).

The Venezuelan economy (member OPEC with the 24.8% of the proven oil reserves, Graph 25) can be good example for the "Dutch Disease" phenomenon. The fuel exports have organised majority of the merchandise export in the last decades. Due to the shocks and booms in the world oil-gas market the amount of the oil rents have fluctuated (Graph 23).



Graph 23. Fuel exports (% of total) and oil Rents (% of GDP), Venezuela

Source: The World Bank, http://data.worldbank.org/indicator (last accessed: 05.05.2020) The agriculture and manufacture have contributed to the nation's product inefficiently. Their shares have been relatively low in comparison with the resource sector (Graph 24).



Source: The World Bank, http://data.worldbank.org/indicator (last accessed: 05.05.2020)

The Venezuelan government had several attempts to diversify the economy in the last decades. Interestingly, as a result of the industrialization the huge revenue have been spent on the metal projects. In spite of these efforts, due to the foreign market conditions, and international market players and investors in the country, made the export of the overproduced products. In this context, the government selected the conservative way with applying the limitations to the foreign investments (Auty, 1986).

By all means, there have been many factors which have caused the current situation in the Venezuelan economy. It is obvious that, the strong participation of the government, political regime, foreign policy have influenced to the heart of the economy: resource sector. The inefficient management in the case of boom and boost in the world oil market resulted many challenges for the Venezuelan economy (Hidalgo, 2007).

In 2015, the economic situation in Venezuela has changed dramatically. So, the falling oil prices, the increase in the prices of the imported products, caused the higher inflation. The exchange rate of the national currency went up to the 833 bolivars per USD. The key issue of the recession is that, the local producers had to stop their production due to the lack of the imported inputs (Cerra, 2016).

Not only, OPEC member countries, but also other resource-dependent economies are discussed as the sample of the Dutch Disease.

The real exchange rate of the Kazakhstan national currency: Tenge has been volatile to the changes in the world oil prices due to dependency on the oil export revenue. As a matter of the fact, we can say that, the Kazakhstan economy has suffered from the "Dutch Disease". Moreover, it will not be possibly to prevent this dependence easily in the short-run (Kutan and Wyzan, 2005). Palazuelos, and Fernández (2012) indicate the importance of the participation of the foreign oil companies in the oil sector in Kazakhstan. However, the authors observe that, the government tries to get more benefits from the agreements with the investor via reviewing them.

The fuel exports in Kazakhstan have been more than 50% of the total merchandise export since 2000. Not surprisingly, this figure have passed the 70% level. These fact, motivates to think about the "Dutch Disease". In case of the export concentration, it has been obvious that the world energy prices have affected the oil revenues (World Bank, 2016).

In the same way, the shares of the agricultural and manufactural sectors have been fallen dramatically (World Bank, 2016).

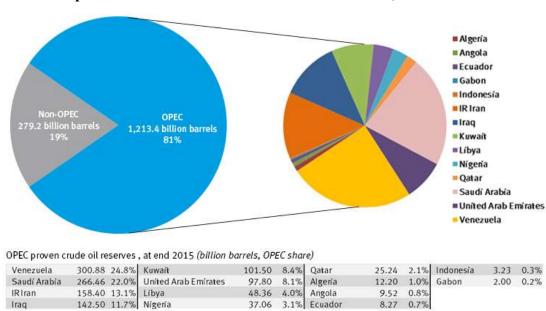
The national currency: Tenge has been depreciated since 2009 due to the falling oil prices (World Bank, 2016). The main motivation for these depreciations were to enhance the competitiveness of the local production, to protect financial reserves (National Bank of Kazakhstan, 2016). Apart from the new exchange rate regime, the Government efforts in how to preserve and invest the resource revenue should be considered. In 2000, the National Fund of the Republic of Kazakhstan (NFRK) started to operate. The ensuring to the social and economic development of the country have been the goals of the Fund (Sovereign Wealth Fund Institute, 2016). In reality the practise showed that, before 2007-2009 financial crisis, the National Fund of the Republic of Kazakhstan was the main survivor for the Kazakhstan economy with reasonable wealth accumulation since the establishment. Regardless the need for vital support by the National Fund of the Republic of Kazakhstan, the government believes that the application of the new regulations of the Fund would

be crucial to save the wealth for the future generations. Not only the adopting of the regulations, but also good governance and transparency are crucial factors to get better results and achieve the targets (Kalyuzhnova, 2011).

The Russian Economy has crucial part in the world. However, the "Dutch Disease" symptoms have been observed in Russian due the dependence on the resource (particularly oil and gas) export and the lack of economic diversification (Algieri, 2011). The share of fuel exports have been more than 50% of the total merchandise export and reached to 70%. Similarly, due the recent price shock in the world energy market, the oil and natural resource rents have fallen dramatically (World Bank, 2016). The key determinants of the "Dutch Disease": the shares of the agriculture and manufacturing (decreased more than 3 time) in GDP have been less in the recent years (World Bank, 2016).

The Russian Rouble has been depreciated starting from 2013 due to the falling oil prices, international political issues, including the economic sanctions (World Bank, 2016). The real appreciation of the Rouble and deindustrialisation prove that Russian economy has experienced the Dutch Disease" (Dulger, et al. 2013).

The Russian government has established the investment institutions (National Welfare Fund –to support pension policy, reduce inflation and volatility threats from the oil-gas export revenue; Russia Reserve Fund- to support fiscal policy) (Sovereign Wealth Fund Institute, 2016).



Graph 25. OPEC share of world crude oil reserves, 2015

Source. OPEC, https://www.opec.org/opec_web/static_files_project/media/downloads/publications/ASB2016.pdf

Table 15. The world countries with the "Dutch disease" experience

No	Country Name	Year (Realization of the problem)	Concepts for Therapy	Practical Steps and Actions	Outcomes
1	Algeria	1974	Diversify the economy, enhance the share of manufacturing and agricultural sectors in GDP.	Forced industrialization policy, transition from socialism to free market economy, currency devaluation, establishing of Stabilization Fund in 2000	Oil-gas export is dominant in the export, less share of manufacture sector, there are problems in economic institutions
2	Angola	1974	Protect the export of agricultural goods, including, coffee and others, stabilize the inflation, real exchange rate, promote capital investments, and ensure transparency.	Oil revenue spent on huge military expenditure, public consumption, not for private consumption, new monetary policy applied with purchasing the local currency stabilize the exchange rate, ensured depreciation of Kwanza	The share oil export has been more than 95% in total export, inflation has been high, less transparence and corruption in the spending of the oil revenue, the level of public consumption level has been more than private consumption.
3	Ecuador	1973	To diversify the export, to protect traditional agricultural goods in the foreign trade.	The government changed the currency to the US dollar, increased the social spending.	The economy still depend on the oil and agricultural products export, however, Ecuador could achieved to prevent "Dutch Disease" problem.
4	Gabon	1975	To protect the agriculture and manufacture sectors, stabilize the real exchange rates, reduce poverty level and increase social expenditure.	The government joined to the Economic and Monetary Community of Central Africa with accepting CFA Franc as a main currency, the government created Sovereign Fund, the main investment directions have been the sectors related to the oil industry.	The share of the oil products has been more than 80% of the total export, the share of agricultural and manufactural products has been less than 10% of the GDP, inefficient governance, corruption, less transparent business climate and higher poverty level are the main challenges.
5	Indonesia	1978	To manage oil revenues efficiently, to protect traditional agricultural exports, to boost manufactural production, attract FDI, and stabilize the real exchange rate.	The State Oil Company: Pertamina diversified the oil revenue to the non-oil sectors: including industry, real estate, tourism, construction. The Indonesian government applied to strict limitations on the foreign borrowing and changed the monetary policy with the depreciation of the currency in order to promote non-oil exports and enhance the country's competitiveness.	The country achieved more diversified economy, with strong development in manufacture sector, joined to the G-20 countries, all in all, the Country prevented the "Dutch Disease".
6	Iran	1974	Ensure the export diversification, minimize the dependence of the state budget from the oil-gas export, promote the improvement of private sector, to save and invest the resource revenue	The government has created National Development Fund in order to manage the resource revenue efficiently, has denominated the Iranian currency Rial, Accepted New Economic Development Plan, reestablished the economic relations with western countries after sanctions,	Oil-gas export still is amounted half of the state budget revenue, only 30% of the resource revenue can be saved, the purchase power of the currency has been less, the share of the agricultural products in GDP has decreased dramatically in the last decades, the economic

					growth has been more volatile to any changes in the world prices of oil-gas products.
7	Iraq	1979	The first challenge was to minimize the military expenditure during the wars, to prevent the negative effects of the sanctions, to manage oil revenues properly to foster the economic development	The government had to spend the main part of oil-gas revenue to the military expenditure, due to sanctions, the government spent huge revenue on the subsidies.	It is difficult to summarize the economic results due to political instability in the last decades, however, if we do not take those factors into consideration, the whole economy has been depend on the oil-gas export.
8	Kazakhstan	2000	To stabilize the monetary policy, to ensure export diversification, to enhance the development traditional sectors, including agriculture.	The Central Bank has devaluated the national currency, created the reserve fund.	The share of the non-resource sector has been so weak, due to the energy concentration, the economy has been volatile to the world prices.
9	Kuwait	1970	The challenge has been the management issue of huge oilgas revenue for the small economy and ensure stable exchange rate of the currency.	The Central Bank applied fixed exchange rate regime, established several institutions and funds in order to reinvest, save and diversify any risks, to ensure the sustainable development of the nation's wealth.	In fact, the agriculture and manufacture sector has been so weak. On the contrary, the national currency has been experienced the depreciation. The revenue from oil-gas sector plays important role in the whole economy.
10	Libya	1970	To diversify the export and minimize the dependence from the oil-gas export, enhance the country's competitiveness.	Starting from 2000s new exchange rate regime have been applied in order to improve banking system, prevent black market, promote non-oil export, Sovereign fund has been established in order to manage and reinvest oil revenue.	The percentage oil-gas products has been more than 90% of the total export, the shares of the agriculture and manufacture sectors have been weak in GDP, the most of the assets of the Fund have been invested in the abroad, the revolution, sanctions, civil war, regime changes have been other key factors to affect the economic development.
11	Nigeria	1974	To manage and reinvest the resource revenue to the country's economic development, to protect the manufacturing sector.	The Government established Nigeria Sovereign Investment Authority including 3 different Funds: Future Generations Fund (40% of the assets), Nigeria Infrastructure Fund (40% of the assets) and Stabilisation Fund (20% of the assets). The national currency has been depreciated.	The share of the fuel exports has been between 80-100% in the total merchandise export and the oil rent in GDP has been between 20-40% since 1970s, the lack of efficient institutional management and transparency, the whole economy suffers from the current economic situation.
12	Qatar	1974	How to manage oil-gas revenue, and stabilize the exchange rate of the national currency.	The Central bank has been adopted the fixed exchange rate regime, the Government established the Sovereign Fund.	Due to the efficient revenue management and the sustainable transfers from the Fund to the economy, Qatari economy has not experienced the more challenges, However, in facts, the dependence on the export revenue of the oil-gas products have been higher in the last decades.

13	Russia	2000	To ensure export diversification and minimize the dependence from the oil-gas export, enhance the country's competitiveness	The Russian ruble has been depreciated starting from 2013. The Russian government has established the investment institutions in order to support pension system, fiscal policy.	The falling oil prices (fuel export reached to 70% of the total), international political issues, the economic sanctions are the main challenges for the economy. The share of the manufacturing sector has decreased due to the deindustrialization
14	Saudi Arabia	1974	To manage oil revenues efficiently, to promote economic and infrastructural development, development, and stabilize the real exchange rate.	The government has established Saudi Arabian Monetary Agency as both Central bank and the investments, Several State Programs were adopted, the fixed exchange has been applied since 1980s	The share of the fuel exports has been between 80-100% in the total merchandise export and the oil rent in GDP has been between 20-80% since 1970s, the mobilization of the local labor forces has been very slow, foreigners are the majority in the labor market, and religious tourism has been growing.
15	United Arab Emirates	1974	To manage and reinvest the resource revenue to the country's economic development, to protect the manufacturing sector.	The government has established Abu Dhabi Investment Authority as the Sovereign Fund and the fixed exchange has been applied since 1980.	The UAE economy has been more diversified in comparison with other resource economies, the Government could achieved to attract FDIs and create the international trade center within the country.
16	Venezuela	1974	To ensure the export diversification with protecting traditional export goods, to enhance the sustainable economic development.	The government adopted floating exchange rate regime, applied limitations to the foreign participants in the economy	The economy experiences the worst case in the history, the exchange rate of the currency in the black market is the several times more than official figures, the inflation is higher, the local production cannot operate.
17	Azerbaijan	2015 February	To ensure the efficient monetary Policy and sustainable balance of payments	1 st devaluation of the national currency due to the economic issues in the neighborhood countries	Those actions could not meet the Central Banks expectations and it created the basis for the second intervention
		2015 December	To stabilize the monetary policy due to the falling oil prices	2 nd devaluation of the currency and move to the floating exchange rate regime	The national currency still can not "float" independently, the Central Bank needs to intervene frequently
		2016	To stabilize the volume foreign currencies in the turnover	The independent exchange offices have been closed	It caused limitations for the "financial market" which never could able organized efficiently
		2015-2016	To stabilize the banking system in Azerbaijan	About 10 commercial banks' licenses were withdrawn by the Central Bank	Those actions could not meet the Central Banks expectations and could not solve the issue of the overdue loans
		2016	To ensure the sustainable financial sector and market	Foundation of the Chamber of Control on Financial Markets Public Entity	As today there is no any real financial market environment
		2016	To mitigate the resource dependency of the economy	The road map had been accepted.	Most of the accepted targets stayed on the paper with no crucial changes over the economy.

Source: The author's own summarizing

2.3. Concept and application of input-output models in structural planning

The current downturn of the Azerbaijan economy shows that, there have been problem in the connection between all of the researches and practice. This research will have specific features in the implementation. I believe that all of the methodologies (input-output analysis, stochastic, liner programming, compromise programming optimization, and interview with the experts) will support the research goals.

In the modern world, there are varied new approaches due to the movements in the economies. However, these approaches has the historical roots and backgrounds. By all means, the intersectorial analysis or input-output model has become crucial tool in order to understand the reasons and relations between the sectors in any economies. In fact, the scope of the application of this model has gotten more popularity among the all sciences.

The input-output or inter-industry analysis covers the flow of goods and services among the elements of any economy to explain and ensure the statistical view of the theoretical knowledge. Interestingly, the simplicity of this model in the application and analysing attracts many scholars. Table 16 describes the fundamentals of the Input-output concept. The horizontal rows of the table exhibit the distribution of the output of the sectors (a-f) among the other directions of an economy. On the other hand, the vertical columns display the distribution of the goods and services from the varied sectors as inputs within the sectors. All in all, the main idea in the input-output analysis is to explain the relationship between the volume of an industry and the range of the inputs consumed. Subsequently, in any input-output tables, it is easy to calculate the coefficients in order to understand the share of other sectors' output per unit of any selected sector (Leontief, 1986).

Table 16. Format of the basic input-output tables

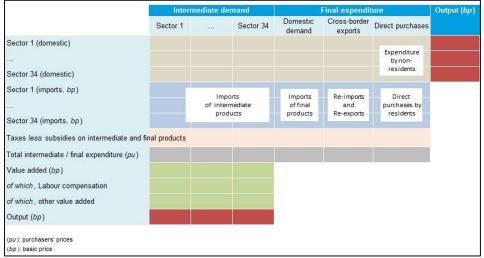
Sectors	a	b	c	d	e	f	Total Gross Output
A	X _{aa}	X _{ab}	X _{ac}	X _{ad}	X _{ae}	X_{af}	
В	X _{ba}	X_{bb}	X_{bc}	X_{bd}	X_{be}	X_{bf}	
С	X _{aa}	X_{cb}	X_{cc}	X_{cd}	X_{ce}	X_{cf}	
D	X _{da}	X_{db}	X_{dc}	X_{dd}	X_{de}	X_{df}	
E	X _{ea}	X_{eb}	X_{ec}	X_{ed}	X_{ee}	X_{ef}	
F	X_{fa}	X_{fb}	X_{fc}	X_{fd}	X_{fe}	X_{ff}	
Total Gross Outlay							

Source. Leontief, W., 1986. Input-output economics

In the world economies, the government officials are more interested in to prepare these kind of input-output tables in order to make efficient decisions. For this purpose, there are several databases for the world countries. Comparatively, the classification of the sectors and formats of the tables from these sources are different from each-other.

According to the database of OECD countries, input-output tables show not only final, intermediate goods, services, but also, the sale and purchase relationships between producers and consumers. Table 17 illustrates the *industry x industry* approach for OECD member countries.

Table 17. Format of OECD harmonized national input-output, symmetric industry-by-industry input-output table at basic price.



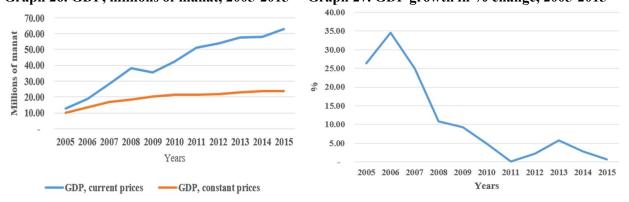
Source: OECD, http://www.OECD.org/trade/input-outputtables.htm

The input-output framework has been applying in the European countries since 1990s. As the result of the application of the framework, it helps to the national policy makers to establish their systematic and expanded view of the economy. The supply, use and symmetric input-output tables are three main types of the framework. In addition, the supply and use tables ensure the supply of goods and services mainly derived from domestic production, imports, and the consumption of goods and services. Accordingly, these tables allow us to able to establish symmetric input-output tables which are the fundamentals of input-output analysis. To illustrate, the symmetric input-output tables can be formed on the basis of industries or products (Eurostat, 2008).

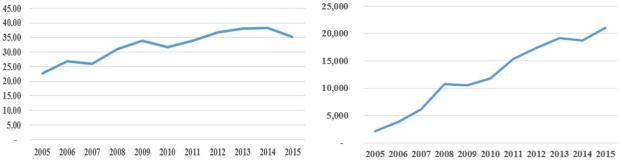
2.4. The Current Situation in the Azerbaijan Economy

If we think about or have a quick look to the Azerbaijan economy, we will realize how the resource, oil-gas sector has had impact. The author attempted to check the macroeconomic indicators in the in the last decades in order to understand all of these impacts.

Graph 26. GDP, millions of manat, 2005-2015 Graph 27. GDP growth in % change, 2005-2015



Graph 28. General government Total Expenditure, Graph 29. General government total expenditure, in millions manat, 2005-2015



Source: IMF, World Economic Outlook Database, 2015,

https://www.imf.org/external/pubs/ft/weo/2015/01/weodata/weoselser.aspx?c=912&t=1 (last accessed: 05.05.2020)

In the recent decades, the Azerbaijan economy has been expanding due to the boom in the oil-gas sector. That is why, since 2005 the total output of the economy has started to grow, but with single sector basis. The author remembers that, the official decision makers of Azerbaijan were particularly outlining that the economy is on the top list in the world with holding one of the highest GDP growth rates mainly caused by the first part of the oil-rent flow to the country. However, these statements were not able to be followed when the growth started to decline. Another point was that, most of this rent were directed to the public expenditure hoping to keep high growth rate for a long time. However, it did work as expected. Particularly, the declining oil prices in the time of the world economic crisis in 2008 sent the negative signals to the economy. All of the macroeconomic figures by the official bodies of the government show the clear dependence of the economy from the oil-gas sector in Azerbaijan, regardless how efficiently those data have been recorded. Without any additional investigations, these facts help to understand the root causes of the unbalanced economy. Not only the other economic sectors, but also the social defense sector has been far from the priorities. It is clear that, as the oil-gas resources are non-renewable, that is why the rents coming from the resource production are also limited. In this case, the efficient management of the finances by the governance is the key principle to get the success in the economic results (Huseynov, 2015, and Graph 26-29).

Graph 30. General government commodity revenue, % of GDP, constant prices, 2003-2013

38.42 33.73 30.07 27.85 15.0 15.18 14.23 11.31 10.13 9.75 2011 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012

Graph 31. General government state budget balance % of GDP, and debt to GDP ratio, constant prices, 2003-2013

Source: IMF, http://data.imf.org/?sk=7CB6619C-CF87-48DC-9443-2973E161ABEB&sId=1420495322854 (last accessed: 05.05.2020)

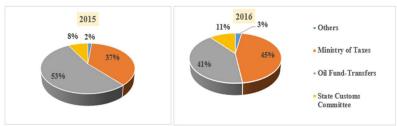
Graph 32. Official available currency in USD, January 2015- January 2016



Source: Central Bank of Azerbaijan.

http://en.cbar.az/infoblocks/money_reserve_usd 31.01.2016

Graph 33. Consolidated budget revenues of 2015 & 2016



Source: Ministry of Finance of the Republic of Azerbaijan, key Budget Analysis of

a, http://maliyye.gov.az/sites/default/files/2015_teqdimat_t%20(3).pdf b, http://www.maliyye.gov.az/sites/default/files/2016 budce teqdimati.pdf

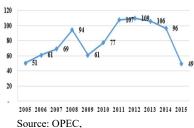
It is clear from the numbers above, the resource revenue as percentage of GDP has been one third of the total government income since 2007 (Graph 30-33). Definitely, for this massive increase has direct connection with the exported energy products. This period could be called the best time for the Azerbaijan economy in terms of the cash reserves. However, such close relations have always cost in the economy as well. That is why, in a just one year the official currency reserves of the Central bank has decreased by three times. Obviously, the resource dependency not only impacted financial terms, but also made the total economy more passive to produce any products internally via importing cheaper goods, and intermediate raw materials, equipment. However, the passiveness has no only this root causes. Basically, the local business is keen to be involved into the foreign trade and contribute to the local economy. The issue is the existence of the varied artificial obstacles, challenges in the customs, monopoly and the shadow economy. That is why ensuring the transparency, protecting fair competitions in the business, investigating any kind of the irregularities, punishing the free riders in the economy should be the key priorities for the governance in Azerbaijan (Huseynov, 2016, a, and Graph 30-33).

Graph 34. Growth rate of GDP, as percentage of the previous year



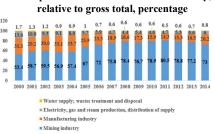
Source: The State Statistical Committee

of the Republic of Azerbaijan. http://www.stat.gov.az/source/system nat accounts/indexen.php Graph 35. World average crude oil price, per barrel, USD

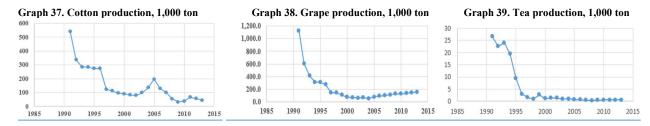


http://www.opec.org/opec_web/en/data_graphs/40.htm

Graph 36. Sectorial structure of industry,



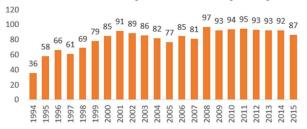
Source: The State Statistical Committee of the Republic of Azerbaijan. http://www.stat.gov.az/source/industry/indexen.php



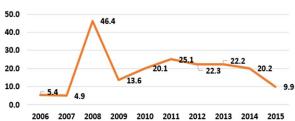
Source: The State Statistical Committee of the Republic of Azerbaijan, http://www.stat.gov.az/source/agriculture/indexen.php

In terms of the trends in the global energy markets, the total economic outputs have been so sensitive (Graph 34-39). It is obvious that, the oil-gas production is key locomotive for the entire economic output of Azerbaijan. The economy could able to see historical ups and downs of the prices. This could be considered as the emergent signal for the country. Unfortunately, as the economic structure, the mining sector has been key shareholder in Azerbaijan. If we consider the rest of the economy as non-gas sector, we can see how the economy is smaller than one dependent sector. This seems like imbalanced boat in the ocean. If you cannot balance your position, it means that the accident is not so far. As the Dutch disease motion, after the recent literature walk, we know that how the traditional economic sectors are vital for any country. Unfortunately, as one of the key heart of the economy, the agriculture sector has shown dramatic declining trend. In this stage, the author's doubts over the sustainable economic development in Azerbaijan is increasing. It seems that the real economic picture is far from the declared economic achievements (Huseynov, 2016, (b) and Graph 34-39).

Graph 40. The Structure of exports by product: mineral fuels, minerals oils and related products, share in export, in percent



Graph 41. Exported mineral fuels, minerals oils and their products, in Billions of USD

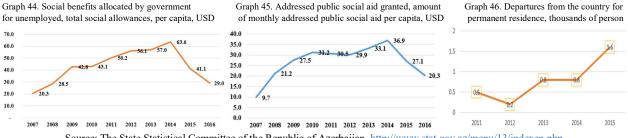


Source: The State Statistical Committee of the Republic of Azerbaijan, http://www.stat.gov.az/source/trade/indexen.php

Graph 42. Share of employees by economic regions, percent of the total. 80% 55% 60% 420/ 40% 20% 0% 2005 2010 2011 2012 2013 2014 2015 Baku city (with settlements) Regions

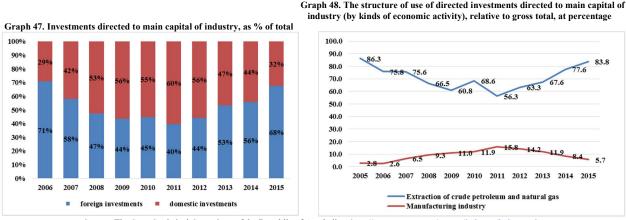
Graph 43. Average amount of fixed monthly pensions





Source: The State Statistical Committee of the Republic of Azerbaijan, http://www.stat.gov.az/menu/13/indexen.php

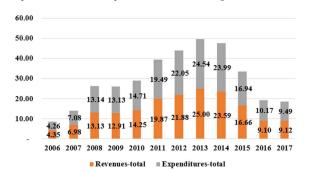
Economic histories raises well-being of the people as the key goal for the any governance. Unfortunately, the recent trend in the world energy markets put the daily lives into the many challenges for the people. On the other hand, we see that, in the time of the higher energy prices in the world market could not change any crucial things for the citizens. Keeping this in mind that, we can judge that, the social protection policy has not been in the list of the top key performance indicators. As the result of that, the labor forces move to the capital of the country in order live and earn better, which causes another imbalance in the economy. Increasing unemployment level and lack of the sufficient financial support by the central government are the key features of the current labor market. Any increase over the minimum payments in the labor market should be calculated and made sense check with the real incomes before putting into force. All in all, skilled human resources are the key drivers for the sustainable economic development (Huseynov, 2017, (a) and Graph 40-46).



Source: The State Statistical Committee of the Republic of Azerbaijan, http://www.stat.gov.az/source/industry/indexen.php

The share of the investments mainly were directed to the resource sector in the last decade. Naturally, the development of the mining sector has been faster than the rest of the economy. Geographically, energy production facilities are located next to the capital region, where half of the entire country's business operates. The share of the manufacturing sector in the total output has been smaller. Logically, promoting the foreign direct investments and motivating the local business to create the goods or services in the country can foster the development of the non-oil gas sector (Huseynov, 2017, (b) and Graph 47-48).

Graph 49. Revenues and expenditures of the state budget, in billions USD



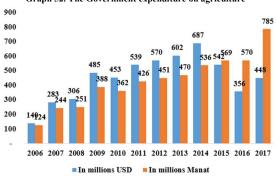
Graph 50. The Transfers from the State Oil Fund of the



Graph 51. The transfers from SOFAZ, percent of the total revenue



Graph 52. The Government expenditure on agriculture

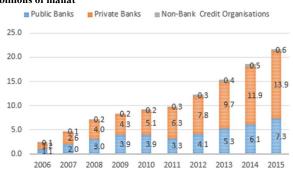


Source: The state Statistical Committee of the Republic of Azerbaijan, http://www.stat.gov.az/source/finance/indexen.php
The Ministry of Finance of the Republic of Azerbaijan, http://www.maliyye.gov.az

Unfortunately, as other resource dependent economies, the government pumped the oil-rents directly to the economy without limitations, particularly, it is obvious that, the state budget saw its maximum capacity in 2012-2013. In parallel, the further analysis made us believed that, the relationship between the oil rents and public spending is positive and linear. It is important to highlight the most striking relationship in the infrastructural spending. On the other side, regardless decreasing oil transfers, the government has focused to the agricultural output, which does not promise any immediate impact in the short-run. Interestingly, the recent changes in the fiscal policies are hoped to change the current situation via switching from the resource era to the real business model. However, putting more burden to the taxpayers' shoulders and increasing the tax revenues does not seem the most efficient solution (Huseynov, 2017, c). That is why the decision makers need to handle economic reforms in the fiscal policy, stay far from the inefficient infrastructural spending and concentrate on the economic, social affairs (Huseynov, 2017, (d) and Graph 49-52).

Graph 53. The Structure of the loans by credit institutions, billions of manat

Graph 54. The Structure of the deposits by currencies, billions

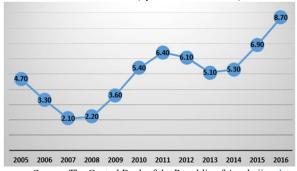


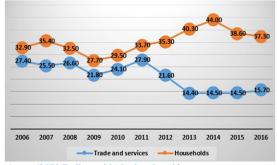


Source: The Central Bank of the Republic of Azerbaijan, http://en.cbar.az/lpages/statistics/

Graph 55. The overdue loans of the total, as % of total (by 31st of Oct. in 2016)

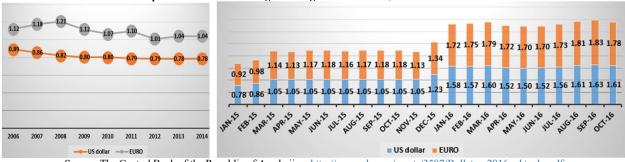
Graph 56. The Sectorial breakdown of the loans, as % of the total (by 31st of Oct. in 2016)





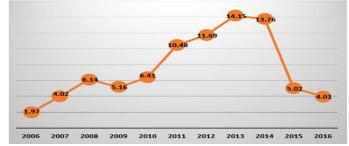
Source: The Central Bank of the Republic of Azerbaijan, http://www.cbar.az/assets/3579/Bulleten-2016_oktyabr.pdf

Graph 57. The Official average exchange rates of manat, 2006-2014 / 2015-2016



Source: The Central Bank of the Republic of Azerbaijan, http://www.cbar.az/assets/3587/Bulleten-2016_oktyabr.pdf

Graph 58. Official foreign reserves, billions of US dollars (by 31st of Oct. in 2016)



Source: The Central Bank of the Republic of Azerbaijan, http://www.cbar.az/assets/3572/Bulleten-2016_oktyabr.pdf

The participation of the commercial banks has been expanded. The major part of the local credits have been given to the households in the last decade. The banking sector has started experience it's the lowest level in the last decade. Not surprisingly, the falling oil-rents are one of the main reasons. The depreciation of the national currency has been starting since 2015, which caused many challenges to the loan takers to bay back to the creditors. As the result of these process, several commercial banks went to the bankruptcy or announced as bankruptcies by the central organisation. The common solution would be to grant access for the foreign investors to the banking system, reorganising and developing financial institutions, the transparency and protecting the rights should be ensured via improving financial regulations and laws in Azerbaijan (Huseynov, 2018 and Graph 53-58).

2.5. Gap to be studied for the Azerbaijan Economy

In this study the author aims to draw general structure of the Azerbaijan economy via input-output approach, to find the optimum output level for the economic sectors in the Azerbaijan economy, to learn from the world economies which have passed the same milestones, to identify the roots causes and challenges in the Azerbaijan economy, to develop recommendations for the further studies and policy implications for Azerbaijan.

This study is one of the limited researches done by the scholars on the Azerbaijan economy. The key element of the making this research to be different, are covering theoretical and practical tools. Starting with the theoretical knowledge on the resource dependent economies and identifying common aspects over the Azerbaijan economy create the base for the study. Applying global comparative analysis of the input-output and linear programming between Azerbaijan and the selected countries makes this study the contributive to the recent relevant literature.

3. METHODOLOGY AND DATA

3.1. Expert interviews

The author assess the open research questions via offline interviews with the scholars who are experts in the world resource dependent economies. Seemingly, the number of questions helps to cover the major common debates in the selected countries. Interestingly, the most of the respondents' research works are studied in the literature section. Due to consolidated approach in terms of the summarizing of the responses, the each scholars' ideas are not mentioned individually.

The main goal by the author taking the interviews was not only to understand common issues in the resource dependent economies, but also try to get attempt to understand the economic experiences of the selected countries via hearing directly from the relevant scholars to support the literature dive. Apart from that, the given answers by the respondents show close mutual understanding with the relevant official statistical numbers.

Apart from that, the author has arranged public interviews with leading economic experts, scholars from public organizations, independent institutes and universities. The key raised questions were about the recent reform initiatives by the government in Azerbaijan.

The below list highlights key the scholars and experts who had direct contributions (the full list is not listed due to the consolidation limitations):

- Dr. Vugar Bayramov, Chairman of the CESD, MP in the Parliament of Azerbaijan
- Dr. Elchin Suleymanov, Baku Engineering University,
- Dr. Orkhan Baghirov, Expert Advisor, SAM,
- Dr. Khatai Aliyev, Baku Engineering University,
- Ilham Ali Yusif, British Council Azerbaijan,
- Surkay Novruzov, NPC Agro Consulting and Engineering,
- Dr. Jeyhun Mikayilov, King Abdullah Petroleum Studies and Research Center,
- Dr. Mehdi Adibpour, Islamic Azad University
- Prof. Yelena Kalyuzhnova, Henley Business School, University of Reading, Former Economic Adviser to the President of Kazakhstan

3.2. Construction and Re-Construction of I/O Tables

The author has taken Input Output data from OECD database as 2011 for 13 selected countries (5 of them are OECD member states) where there is at least one dominant product in their export with holding more than 1/3 share of the total exports (Leontief, 1986). Unfortunately, the author could not able to get the relevant Input-Output tables for the rest resource dependent economies (particularly other OPEC member countries) that noted in the literature due to the lack of the official statistics and no satisfactory return to the quarries of the author by the official offices.

After selecting the countries, the author has extracted the available Leontief inverse matrixes as 2011. The recent years are so available from the OECD database. However, the same information

was available for only 2011 by the official statistic office of Azerbaijan. That is why, from the timing perspective taking the same year's data into consideration would be more accurate.

As the next step, the author has put all of the 13 inverse matrixes together (Table 18). Then, the author has calculated the mean per each of 36 sectors (Table 19). There was a need to calculate the variances between countries matrixes and the mean matrix (Table 20). As the next step, the author calculates the squares of the variances (Table 21). The author has summed up the relevant columns of the square matrix (Table 22). And finally, in order to find the standard deviation, the author has calculated the square root of the sum of square of the variances between the matrix of mean of the coefficients and Leontief inverse matrixes (Table 23). After finding the standard deviation, the author has calculated the borders of the standard deviations (Table 24-25). The author has consolidated the 81 sectors of the Azerbaijan economy in align with the 36 sectors of the selected countries' data (Table 33).

Table 18. Leontief inverse matrixes (A matrix), selected countries

Countries	Sectors	S1	Sn	S36
C1	S1	a 1 1	a 1 n	a 1 36
C1	Sn	an 1	a n n	a n 36
C1	S36	a 36 1	a 36 n	a 36 36
Cn	S1	a 1 1	a 1 n	a 1 36
Cn	Sn	an1	a n n	a n 36
Cn	S36	a 36 1	a 36 n	a 36 36
C13	S1	a 1 1	a l n	a 1 36
C13	Sn	an 1	a n n	a n 36
C13	S36	a 36 1	a 36 n	a 36 36

Source: Authors own analysis based on the Input-Output tables

Table 19. Mean of the coefficients of Leontief inverse matrixes (B matrix), selected countries

sciected countries					
Sectors	S1	Sn	S36		
S1	m 1 1	m 1 n	m 1 36		
Sn	m n 1	m n n	m n 36		
S36	m 36 1	m 36 n	m 36 36		

Source: Authors own analysis based on the Input-Output tables

Table 20. Variances between the matrix of mean of the coefficients and Leontief inverse matrixes (A matrix-B matrix), selected countries

Countries	Sectors	S1	Sn	S36
C1	S1	v 1 1	v 1 n	v 1 36
C1	Sn	v n 1	v n n	v n 36
C1	S36	v 36 1	v 36 n	v 36 36
Cn	S1	v 1 1	v 1 n	v 1 36
Cn	Sn	v n 1	v n n	v n 36
Cn	S36	v 36 1	v 36 n	v 36 36
C13	S1	v 1 1	v 1 n	v 1 36
C13	Sn	v n 1	v n n	v n 36
C13	S36	v 36 1	v 36 n	v 36 36

Source: Authors own analysis based on the Input-Output tables

Table 21. Square of the variances between the matrix of mean of the coefficients and Leontief inverse matrixes (A matrix-B matrix), selected countries

LCOHULCI I	Beometri m verse maerikes (11 maerik B maerik), sereetea eoantries					
Countries	Sectors	S1	Sn	S36		
C1	S1	$(v \ 1 \ 1)^2$	(v 1 n) ²	(v 1 36) ²		
C1	Sn	$(v n 1)^2$	$(v n n)^2$	(v n 36) ²		
C1	S36	(v 36 1) ²	$(v 36 n)^2$	$(v 36 36)^2$		
Cn	S1	$(v \ 1 \ 1)^2$	(v 1 n) ²	(v 1 36) ²		
Cn	Sn	$(v n 1)^2$	$(v n n)^2$	(v n 36) ²		
Cn	S36	(v 36 1) ²	(v 36 n) ²	$(v 36 36)^2$		
C13	S1	$(v 1 1)^2$	(v 1 n) ²	(v 1 36) ²		
C13	Sn	(v n 1) ²	$(v n n)^2$	(v n 36) ²		
C13	S36	$(v 36 1)^2$	$(v 36 n)^2$	$(v 36 36)^2$		

Source: Authors own analysis based on the Input-Output tables

Table 22. Sum of square of the variances between the matrix of mean of the coefficients and Leontief inverse matrixes (A matrix-B matrix), selected countries

Sectors	S1	Sn	S36
S1	Σ (v 1 1) ²	$\Sigma (v 1 n)^2$	$\Sigma (v \ 1 \ 36)^2$
Sn	$\Sigma (v n 1)^2$	$\Sigma (v n n)^2$	$\Sigma (v n 36)^2$
S36	$\Sigma (v 36 1)^2$	$\Sigma (v 36 n)^2$	$\Sigma (v 36 36)^2$

Source: Authors own analysis based on the Input-Output tables

Table 23. Standard deviation sum of square of the variances between the matrix of mean of the coefficients and Leontief inverse matrixes (A matrix-B matrix), selected countries

Sectors	S1	Sn	S36
S1	$\sqrt{\Sigma(v \ 1 \ 1)^2}$	$\sqrt{\Sigma} (v 1 n)^2$	$\sqrt{\Sigma} (v \ 1 \ 36)^2$
Sn	$\sqrt{\Sigma} (v n 1)^2$	$\sqrt{\Sigma} (v n n)^2$	$\sqrt{\Sigma} (v n 36)^2$
S36	$\sqrt{\Sigma} (v 36 1)^2$	$\sqrt{\Sigma} (v 36 n)^2$	$\sqrt{\Sigma} (v \ 36 \ 36)^2$

Source: Authors own analysis based on the Input-Output tables

Table 24. Up border of standard deviation sum of square of the variances between the matrix of mean of the coefficients and Leontief inverse matrixes (A matrix-B matrix), selected countries

Sectors	S1	Sn	S36		
S1	$(\sqrt{\Sigma}(v \ 1 \ 1)^2) + m \ 1 \ 1$	$(\sqrt{\Sigma} (v \ 1 \ n)^2) + m \ 1 \ n$	$(\sqrt{\Sigma} (v \ 1 \ 36)^2) + m \ 1 \ 36$		
Sn	$(\sqrt{\Sigma} (v n 1)^2) + m n 1$	$(\sqrt{\Sigma} (\mathbf{v} \mathbf{n} \mathbf{n})^2) + \mathbf{m} \mathbf{n} \mathbf{n}$	$(\sqrt{\Sigma} (v n 36)^2) + m n 36$		
S36	$(\sqrt{\Sigma} (v 36 1)^2) + m 36 1$	$(\sqrt{\Sigma} (v \ 36 \ n)^2) + m \ 36 \ n$	$(\sqrt{\Sigma} (v 36 36)^2) + m 36 36$		

Source: Authors own analysis based on the Input-Output tables

Table 25. Down border of standard deviation sum of square of the variances between the matrix of mean of the coefficients and Leontief inverse matrixes (A matrix-B matrix), selected countries

Sectors	S1	Sn	S36
S1	m 1 1- $(\sqrt{\Sigma}(v \ 1 \ 1)^2)$	m 1 n- ($\sqrt{\Sigma}$ (v 1 n) ²)	m 1 36- (√Σ (v 1 36)²)
Sn	m n 1- $(\sqrt{\Sigma} (v n 1)^2)$	$m n n - (\sqrt{\Sigma (v n n)^2})$	m n 36- $(\sqrt{\Sigma} (v n 36)^2)$
S36	m 36 1- $(\sqrt{\Sigma} (v 36 1)^2)$	m 36 n- $(\sqrt{\Sigma} (v 36 n)^2)$	m 36 36- $(\sqrt{\Sigma} \text{ (v 36 36)}^2)$

Source: Authors own analysis based on the Input-Output tables

Table 26. Inverse matrix sample based on the Input Output table of Azerbaijan (C)

Sectors	S1	S2	S3
S1	b ₁₁	b_{12}	b ₁₃
S2	b ₂₁	b ₂₂	b ₂₃
S3	b ₃₁	b ₃₂	b ₃₃

Source: Author's own analysis based on the Input-Output tables

As a sample, in order to find the consolidated coefficient (agriculture, forestry and fishing) of the inverse matrix for Azerbaijan, the author has used the formula below (Table 26):

 $n_{11} = (Sum (b_{11}, b_{12}, b_{13}, b_{21}, b_{22}, b_{23}, b_{31}, b_{32}, b_{33}) *2) / Sum of numbers of columns and rows (C matrix)$

Finally the author checks whether the inverse matrix coefficients (n) for Azerbaijan is in the range of the standard deviation of the selected countries (Table 27).

Table 27. Inverse matrix for Azerbaijan and borders of standard deviation sum of square of the variances between the matrix of mean of the coefficients and Leontief inverse matrixes (A matrix-B matrix), selected countries

Sectors	S1	Sn	S36
S1	$(m\ 1\ 1 - (\sqrt{\Sigma(v\ 1\ 1)^2})) > n\ 1\ 1 > ((\sqrt{\Sigma(v\ 1\ 1)^2}) + m\ 1\ 1)$	$(m \ 1 \ n - (\sqrt{\Sigma(v \ 1 \ n)^2})) > n \ 1 \ n > ((\sqrt{\Sigma(v \ 1 \ n)^2}) + m \ 1 \ n)$	$(m\ 1\ 36-(\sqrt{\Sigma}(v\ 1\ 36)^2)) > n\ 1\ 36\ > ((\sqrt{\Sigma}(v\ 1\ 36)^2)+m\ 1\ 36)$
Sn	$(m n 1 - (\sqrt{\Sigma(v n 1)^2})) > n n 1 > ((\sqrt{\Sigma(v n 1)^2}) + m n 1)$	$(m \ n \ n - (\sqrt{\Sigma(v \ n \ n)^2})) > n \ n \ n > ((\sqrt{\Sigma(v \ n \ n)^2}) + m \ n \ n)$	$(m \text{ n } 36-(\sqrt{\Sigma}(\text{v n } 36)^2)) > \text{n n } 36 > ((\sqrt{\Sigma}(\text{v n } 36)^2) + m \text{ n } 36)$
S36	(m 36 1-($\sqrt{\Sigma}$ (v 36 1) ²)) > n 36 1 > (($\sqrt{\Sigma}$ (v 36 1) ²)+m 36 1)	(m 36 n-($\sqrt{\Sigma}$ (v 36 n) ²)) > n 36 n > (($\sqrt{\Sigma}$ (v 36 n) ²)+ m 36 n)	$(m \ 36 \ 36 - (\sqrt{\Sigma}(v \ 36 \ 36)^2)) > n \ 36 \ 36 > ((\sqrt{\Sigma}(v \ 36 \ 36)^2) + m \ 36 \ 36)$

Source: Authors own analysis based on the Input-Output tables

So, if the coefficient (n) of the consolidated inverse matrix based on the Azerbaijan input output table was in the range noted as true (T) and false (F) vice versa. Apart from that, the author has compared the coefficient (n) of the consolidated inverse matrix based on the Azerbaijan input output table with the mean of the coefficients (m) of Leontief inverse matrixes (B matrix), selected countries, in which percentage n is greater or smaller than m.

3.3. Linear Programming – Optimization

First of all, the author had to calculate the coefficients of the inverse matrix based on the input output table for the Azerbaijan Economy (Sousa, 2016). For this purpose the author has calculated the coefficients for all 81 sectors (Table 28-29):

Table 28. Input-output table for the Azerbaijan economy

		•	•
Sectors	S1	Sn	S81
S1	z 1 1	z 1 n	z 1 81
Sn	z n 1	z n n	z n 81
S81	z 81 1	z 81 n	z 81 81
Total Output	o1	On	o81

Source: Authors own analysis based on the Input-Output tables

Table 29. The coefficients based on the input-output m for the Azerbaijan economy (L matrix)

Sectors	S1	Sn	S81
S1	z 1 1 / o1	z 1 n / on	z 1 81 / o81
Sn	z n 1 / o1	z n n / on	z n 81 / o81
S81	z 81 1 / o1	z 81 n / on	z 81 81 / o81

Source: Authors own analysis based on the Input-Output tables

After finding the coefficients the author noted down the I (identity) matrix which contains only ones in the diagonal cells, the rest of them equals to zeros (Table 30).

Table 30. I matrix

Sectors	S1	Sn	S81
S1	1	0	0
Sn	0	1	0
S81	0	0	1

Sousa, T., 2016. Energy Analysis: Input-Output. Instituto Superior Tecnico, https://fenix.tecnico.ulisboa.pt/downloadFile/848204501355053/Lecture%2005.pptx

As the one of the final steps, the author has calculated I – L matrixes (Leontief, 1986, Table 31).

Table 31. I matrix – L matrix

Sectors	S1	Sn	S81
S1	1 – (z 1 1 / o1)	0 – (z 1 1 / o1)	0 – (z 1 1 / o1)
Sn	0 – (z 1 1 / o1)	1 – (z 1 1 / o1)	0 – (z 1 1 / o1)
S81	0 – (z 1 1 / o1)	0 – (z 1 1 / o1)	1 – (z 1 1 / o1)

Source: Authors own analysis based on the Input-Output tables

And finally, the author has applied the formula of the MINVERSE to find the inverse matrix in the Microsoft excel (Leontief, 1986, Table 32).

$$n_{nn}$$
 {=MINVERSE ('I matrix - L matrix'!S₁₁: S₈₁₈₁)}

In the literature and official figures for Azerbaijan, there are crucial factors that explains how the economy depends on its own resource sector. In addition to these, as of one the varied analysis of the author has solved 81 functions in order to reach three goals via optimization goals.

In order to solve optimization problem the author needed to construct the linear programming model and to define goal functions per each sectors of the Azerbaijan economy. In other words, author has calculated the model via taking single output structure per each sectors as maximization goal function with all constraints that show the consumption for all of the sectors (J. He, 2004).

Table 32. The coefficients of the inverse matrix based on the input-output table for the Azerbaijan economy

1 izer burjun ceonomy					
Sectors	S1	Sn	S81	Total intermediate consumption	
S1	n 1 1	n 1 n	n 1 81	c1	
Sn	n n 1	n n n	n n 81	cn	
S81	n 81 1	n 81 n	n 81 81	c81	
Total Output	o1	on	o81		

Source: Authors own analysis based on the Input-Output tables

As noted above, the author defines three main goals as below:

- 1. output maximization
- 2. workplace maximization
- 3. export diversification

As an example, we can see the linear programming model for the first sector (S1) of the Azerbaijan economy in the below formula which has been solved in the same way for all 81 sector via applying Lindo 6.1 software (Lewis, 2008).

Max (0₁)
$$n_{11} * x_1 + ... + n_{n1} x_n + ... + n_{s11} * x_{s1}$$

ST $n_{11} * x_1 + ... + n_{1n} x_n + ... + n_{1s1} * x_{s1} <= c_1$
...
$$n_{n1} * x_1 + ... + n_{nn} x_n + ... + n_{ns1} * x_{s1} <= c_n$$
...
$$n_{s11} * x_1 + ... + n_{s1n} x_n + ... + n_{s1s1} * x_{s1} <= c_{s1}$$

$$x_1 ... x_n ... x_{s1} >= 0$$

After finding the optimum-maximum output (m_n) per each sector, the author could calculate the relevant optimum level of labor force.

Employment Multiplier (thousands, number of employees) = total Optimum Output Value per sector (thousands of manat) / Compensation of employees (thousands of manat)

As the last goal, the author has calculated the trade balance and divided to the total output per each sector. With this approach the author can identify the relation between the export-import and the local production, the possibility to diversify the export level per the sector.

3.4. Data Collection and Analysis

The author has taken Input Output data from OECD database as 2011 for 13 selected countries (5 of them are OECD member states) where there is at least one dominant product in their export with holding more than 1/3 share of the total exports (Table 33).

Table 33: The share of the dominant products in the relevant total exports per selected countries

Country	Share of merchandise export	Exported Product		
Brunei Darussalam	95	Oil		
Azerbaijan	95	Oil		
Saudi Arabia	89	Oil		
Kazakhstan	73	Oil		
Colombia	68	Oil		
Norway	68	Oil		
Russian Federation	67	Oil		
Malta	43	Oil		
Indonesia	34	Oil		
Greece	31	Oil		
Australia	30	Oil		
Chile	45	Copper ore and Refined copper		
Iceland	43	Raw aluminium and related products		
Peru	27	Copper		

Source 1: Fuel exports (% of merchandise export), 2011 https://data.worldbank.org/indicator/tx.val.fuel.zs.un Source 2: Other exports, https://atlas.media.mit.edu/en/

The author has started by reviewing the relevant literatures on the selected countries. As the results of the outlook on the studies, the relevance of the selected countries per Azerbaijan have been assessed. To find the direction of the Azerbaijan economy, the relevant data analysis has been conducted. Comparatively, the main economic indicators and their relationship have been analyzed via correlations (Rodgers, Nicewander, 2012).

3.5. International comparative analysis: The way between Norway and Nigeria

In addition to the group of the selected resource dependent economies, the author attempts to have separate parallel analysis via 3 country analysis including Azerbaijan. The main idea is for this initiate is to support the understanding of the current position of the Azerbaijan economy.

In this particular country comparison study, the selection of the countries is not random. The first country: Norway has five decades experience as the resource dependent economy. In the light of this experience, Norwegian economic development milestone is extensively investigated and recommended to the resource dependent economies by scholars. Consequently, those countries which suffered from the recent shocks in the world oil markets, have started to learn from Norway in order to ensure sustainable economic growth. Regardless the current Norwegian economic position and achievement, it has specific features which cannot applicable to other countries immediately. That is why, further research is recommended before application of any experiences.

The second country: Nigeria has the same period of experience with Norway as the oil dependent economy. However, the Nigerian economy has been affected from the shocks in the world oil market due to the inefficient revenue management. Apart from that there are other factors which will be investigated in the studies. The Nigeria experienced with the oil discoveries almost in the same years with Norway. On the contrary to Norway, the economy challenged to manage oil rents in the short and long run. That is why, the author has taken Nigeria as the "worst" scenario or sample for the Azerbaijan economy.

Comparatively, Azerbaijan doesn't have the same years of experience with the selected countries. In other words, Azerbaijan was not independent before 1991 and it is the main challenge to track and compare the statistics with Norway and Nigeria since 1970s. Nonetheless, the last 3 decades economic performance of Azerbaijan allows to diagnose. A key limitation of the recent research on the Azerbaijan economy is focused on the economic results and performance of the governance. This study introduces the whole historical picture of the Azerbaijan economy in order to understand the main roots of the challenges.

4. RESULTS AND DISCUSSIONS

4.1. Results of Input-Output analysis of the Azerbaijan Economy

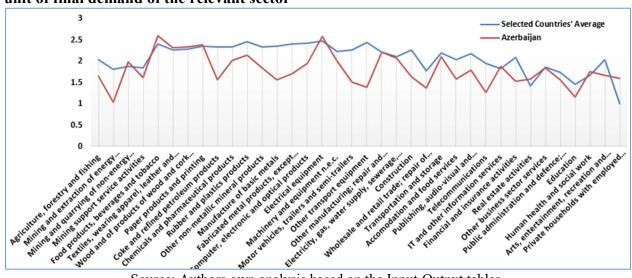
The author has calculated means and standard deviations. Then summarized 81 available sectors of the official available Input Output table for Azerbaijan to the relevant 36 sectors of the selected countries' data. As the result, we can go for further investigations; whether the Azerbaijan numbers are in the range of standard deviation of the selected countries' data and how the Azerbaijan data is far from the selected countries' mean (Table 34-35, Graph 59-60). Apart from the author shows those analysis in two graphs per each of the 35 sectors (excluding 36th sector).

Table 34. Sum of Leontief inverse matrixes

	Sector name	output neede final deman s	Sum of Columns -the total output needed for each unit of final demand of the relevant sector		Sum of Rows- the total output needed from the relevant sector for each unit of final demand of the whole economy	
Sector Number	Sector name	The Selected Countries' Average	Azerbaijan	The Selected Countries' Average	Azerbaijan	
S1	Agriculture, forestry and fishing	2.0401	1.6595	2.0985	1.7174	
S2	Mining and extraction of energy producing products	1.8175	1.0504	3.3698	2.0130	
S3	Mining and quarrying of non-energy producing products	1.8761	1.9800	2.5019	1.9011	
S4	Mining support service activities	1.8478	1.6171	1.3750	1.3463	
S5	Food products, beverages and tobacco	2.4045	2.5932	1.8849	1.4707	
S6	Textiles, wearing apparel, leather and related products	2.2721	2.3236	1.7435	1.5267	
S7	Wood and of products of wood and cork (except furniture)	2.2878	2.3312	1.3468	1.8359	
S8	Paper products and printing	2.3566	2.3839	1.6800	1.7529	
S9	Coke and refined petroleum products	2.3436	1.5637	2.5765	2.7022	
S10	Chemicals and pharmaceutical products	2.3395	2.0207	2.3906	2.0010	
S11	Rubber and plastics products	2.4608	2.1478	1.6602	2.9277	
S12	Other non-metallic mineral products	2.3334	1.8423	1.4292	1.7922	
S13	Manufacture of basic metals	2.3631	1.5645	3.0910	2.3737	
S14	Fabricated metal products, except machinery and equipment	2.3995	1.6999	1.6993	1.2943	
S15	Computer, electronic and optical products	2.4315	1.9538	1.3874	1.9803	
S16	Electrical equipment	2.4835	2.5743	1.4653	3.2216	
S17	Machinery and equipment n.e.c.	2.2405	2.0022	1.4658	1.9281	
S18	Motor vehicles, trailers and semi-trailers	2.2715	1.5157	1.3317	1.5877	
S19	Other transport equipment	2.4502	1.3913	1.7394	1.4102	
S20	Other manufacturing; repair and installation of machinery and equipment	2.2238	2.2237	1.3913	1.9242	
S21	Electricity, gas, water supply, sewerage, waste and remediation services	2.1131	2.0712	2.8121	1.8261	
S22	Construction	2.2706	1.6462	1.6155	2.7262	
S23	Wholesale and retail trade; repair of motor vehicles	1.7758	1.3771	5.4214	2.7381	
S24	Transportation and storage	2.1979	2.1067	3.2592	2.2003	
S25	Accommodation and food services	2.0485	1.5812	1.3321	1.3187	
S26	Publishing, audio-visual and broadcasting activities	2.1755	1.7914	1.3415	1.0945	
S27	Telecommunications	1.9442	1.2668	1.8632	1.3696	
S28	IT and other information services	1.8242	1.8836	1.4059	1.3138	
S29	Financial and insurance activities	2.0956	1.5341	6.0499	1.8370	
S30	Real estate activities	1.4240	1.5806	1.8805	2.6666	
S31	Other business sector services	1.8739	1.8486	4.2448	1.7995	
S32	Public administration and defence; compulsory social security	1.7365	1.5684	1.0636	1.0466	
S33	Education	1.4688	1.1622	1.0378	1.0266	
S34	Human health and social work	1.6768	1.7553	1.5530	1.0472	
S35	Arts, entertainment, recreation and other service activities	2.0429	1.6643	1.4027	1.1018	
S36	Private households with employed persons	1.0000	1.6040	1.0000	1.0609	

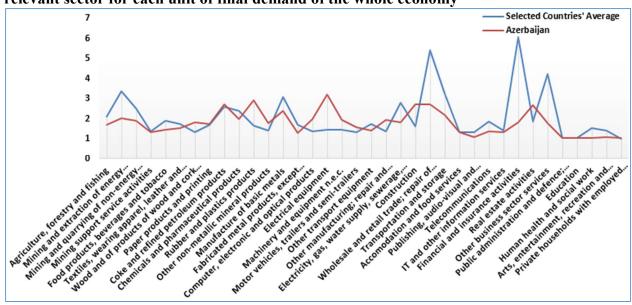
Source: Authors own analysis based on the Input-Output tables

Graph 59. Leontief inverse matrixes - sum of columns -the total output needed for each unit of final demand of the relevant sector



Source: Authors own analysis based on the Input-Output tables

Graph 60. Leontief inverse matrixes - sum of rows- the total output needed from the relevant sector for each unit of final demand of the whole economy



Source: Authors own analysis based on the Input-Output tables

Agriculture, forestry and fishing- Sector 1 (crop and animal production; hunting and related service activities; forestry and logging; fishing and aquaculture) relations with other sectors

In Azerbaijan economy input rates from the sector of agriculture, forestry, fishing (crop and animal production; hunting and related service activities; forestry and logging; fishing and aquaculture) to others are in the selected countries' standard range per only 5 sectors and in the 4 sectors (particularly in textiles, wearing apparel, leather and related products; chemicals and pharmaceutical products) these figures are more than the selected countries' average. On the other hand, in the 30 sectors this measure is not in the selected countries' standard range and in the 31 sectors (particularly in manufacture of basic metals; electrical equipment; wholesale and retail trade, repair of motor vehicles) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less agricultural unit (1.7174 vs 2.0985) than the selected countries (Table 34). It means, in the Azerbaijan economy, the sector of agriculture has weaker sales relations with the rest of the economic sectors in comparison with the selected countries'.

In Azerbaijan economy input rates from other sectors to the sector of agriculture, forestry, fishing (crop and animal production; hunting and related service activities; forestry and logging; fishing and aquaculture) are in the range of the selected countries' per 24 sectors and in the 13 sectors (particularly in electrical equipment; motor vehicles, trailers and semi-trailers; construction) these figures are more than the selected countries' average. On the other hand, in the 11 sectors this measure is not in the selected countries' standard range and in the 22 sectors (particularly in mining support service activities; financial and insurance activities; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (1.6595 vs 2.0401) for each unit of final demand of the agriculture, forestry, fishing sector than the selected countries (Table 34). In summary, in the Azerbaijan economy, the sector of agriculture has closer purchasing relations with the rest of the economic sectors in comparison with the selected countries. It is clear that, the agriculture sector mainly purchases means of production as the inputs from others.

Mining and extraction of energy producing products - Sector 2 (mining of coal and lignite; extraction of crude petroleum and natural gas) relations with other sectors

In Azerbaijan economy input rates from the sector of mining and extraction of energy producing products (mining of coal and lignite; extraction of crude petroleum and natural gas) to others are in the selected countries' standard range per only 15 sectors and in the 1 sector (human health and social work) this figure is more than the selected countries' average. On the other hand, in the 20 sectors this measure is not in the selected countries' standard range and in the 33 sectors (particularly in mining support service activities; other transport equipment) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less mining and extraction of energy producing products (2.0130 vs 3.3698) than the selected countries' (Table 34). It means, in the Azerbaijan economy the sector of extraction of energy producing products has weaker sales relations with the rest of the economic sectors in comparison with the selected countries. In Azerbaijan economy input rates from other

sectors to the sector of mining and extraction of energy producing products (mining of coal and lignite; extraction of crude petroleum and natural gas) are in the range of the selected countries' per 18 sectors. On the other hand, in the 17 sectors this measure is not in the selected countries' standard range and in the all of the sectors (particularly in publishing, audio-visual and broadcasting activities; financial and insurance activities; other business sector services; human health and social work) the rates are under the selected countries' average (Appendix X, XI). The Azerbaijan economy consumes less input (1.0504 vs 1.8175) for each unit of final demand of the mining and extraction of energy producing products than the selected countries' (Table 34). All in all, in the Azerbaijan economy, almost all of the sectors receive less mining inputs and the mining sector consumes less inputs than the selected countries. This fact means, the oil-gas production sector has the weaker connection with the entire economy of Azerbaijan. Not surprisingly, the major part of this production goes to export, which makes the economy so dependent.

Mining and quarrying of non-energy producing products - Sector 3 (mining of metal ores; other mining and quarrying) relations with other sectors

In Azerbaijan economy input rates from the sector of mining and quarrying of non-energy producing products (mining of metal ores; other mining and quarrying) to others are in the the selected countries' standard range per only 34 sectors and in the 7 sectors (mining and quarrying of non-energy producing products; electricity, gas, water supply, sewerage, waste and remediation services; transportation and storage; real estate activities) these figures are more than the selected countries' average. On the other hand, in 1 sector (IT and other information services) this measure is not in the selected countries' standard range and in the 28 sectors (particularly in mining and extraction of energy producing products; coke and refined petroleum products; chemicals and pharmaceutical products; motor vehicles, trailers and semi-trailers) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less mining and quarrying of non-energy producing products (1.9011 vs 2.5019) than the selected countries' (Table 34). It means, in the Azerbaijan economy the sector of mining and quarrying of non-energy producing products has weaker sales relations with the rest of the economic sectors in comparison with the selected countries.

In Azerbaijan economy input rates from other sectors to the sector of mining and quarrying of non-energy producing products (mining of metal ores; other mining and quarrying) are in the range of the selected countries per 22 sectors and in the 14 sectors (particularly in mining support service activities; other non-metallic mineral products; electrical equipment; machinery and equipment n.e.c.; motor vehicles, trailers and semi-trailers) these figures are more than the selected countries' average. On the other hand, in the 13 sectors this measure is not in the selected countries' standard range and in the 21 sectors (particularly in agriculture, forestry and fishing; publishing, audiovisual and broadcasting activities; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes more input (1.98 vs 1.8761) for each unit of final demand of the mining and quarrying of non-energy producing products than the selected countries (Table 34).

Mining support service activities – Sector 4 (mining support service activities) relations with other sectors

In Azerbaijan economy input rates from the sector of mining support service activities to others are in the selected countries' standard range per only 33 sectors and in the 4 sectors (particularly in mining and quarrying of non-energy producing products; mining support service activities; other non-metallic mineral products) these figures are more than the selected countries' average. On the other hand, in the 2 sectors this measure is not in the selected countries' standard range and in the 31 sectors (particularly in agriculture, forestry and fishing; manufacture of basic metals) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less mining support services (1.3463 vs 1.3750) than the selected countries' (Table 34). It means, in the Azerbaijan economy the sector of mining support service activities has weaker sales relations with the rest of the economic sectors in comparison with the selected countries.

In Azerbaijan economy input rates from other sectors to the sector of mining support service activities are in the range of the selected countries per 24 sectors and in the 13 sectors (particularly in wood and of products of wood and cork (except furniture); electrical equipment; machinery and equipment n.e.c.; motor vehicles, trailers and semi-trailers; construction; real estate activities) these figures are more than the selected countries' average. On the other hand, in the 11 sectors this measure is not in the selected countries' standard range and in the 22 sectors (particularly in agriculture, forestry and fishing; publishing, audio-visual and broadcasting activities; financial and insurance activities; human health and social work) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (1.6171 vs 1.8478) for each unit of final demand of the mining support services than the selected countries (Table 34).

Food products, beverages and tobacco – Sector 5 (manufacture of food products; manufacture of beverages; manufacture of tobacco products) relations with other sectors

In Azerbaijan economy input rates from the sector of food products, beverages and tobacco (manufacture of food products; manufacture of beverages; manufacture of tobacco products) to others are in the selected countries' standard range per only 7 sectors and in the 1 sector (food products, beverages and tobacco) these figures are more than the selected countries' average. On the other hand, in the 28 sectors this measure is not in the selected countries' standard range and in the 34 sectors (particularly in wood and of products of wood and cork (except furniture); chemicals and pharmaceutical products; other transport equipment) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less food products, beverages and tobacco unit (1.4707 vs 1.8849) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of food products, beverages and tobacco (manufacture of food products; manufacture of beverages; manufacture of tobacco

products) are in the range of the selected countries' per 19 sectors and in the 17 sectors (particularly in paper products and printing; other non-metallic mineral products; computer, electronic and optical products; electrical equipment; motor vehicles, trailers and semi-trailers) these figures are more than the selected countries' average. On the other hand, in the 16 sectors this measure is not in the selected countries' standard range and in the 18 sectors (particularly in publishing, audiovisual and broadcasting activities; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes more input (2.5932 vs 2.4045) for each unit of final demand of the food products, beverages and tobacco sector than the selected countries (Table 34) which means, the efficiency of the food production is under expectations.

Textiles, wearing apparel, leather and related products- Sector 6 (manufacture of textiles; manufacture of wearing apparel; manufacture of leather and related products) relations with other sectors

In Azerbaijan economy input rates from the sector of textiles, wearing apparel, leather and related products (manufacture of textiles; manufacture of wearing apparel; manufacture of leather and related products) to others are in the selected countries' standard range per only 30 sectors and in the 3 sectors (textiles, wearing apparel, leather and related products; chemicals and pharmaceutical products; other business sector services) these figures are more than the selected countries' average. On the other hand, in the 5 sectors this measure is not in the selected countries' standard range and in the 32 sectors (particularly in wood and of products of wood and cork (except furniture); rubber and plastics products; other manufacturing; repair and installation of machinery and equipment; wholesale and retail trade; repair of motor vehicles) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less textiles, wearing apparel, leather and related products unit (1.5267 vs 1.7435) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of textiles, wearing apparel, leather and related products (manufacture of textiles; manufacture of wearing apparel; manufacture of leather and related products) are in the range of the selected countries per 18 sectors and in the 18 sectors (particularly in agriculture, forestry and fishing; rubber and plastics products; computer, electronic and optical products; electrical equipment; motor vehicles, trailers and semi-trailers; construction) these figures are more than the selected countries' average. On the other hand, in the 17 sectors this measure is not in the selected countries' standard range and in the 17 sectors (particularly in food products, beverages and tobacco; publishing, audio-visual and broadcasting activities; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes more input (2.3236 vs 2.7221) for each unit of final demand of the textiles, wearing apparel, leather and related products sector than the selected countries (Table 34).

Wood and of products of wood and cork (except furniture) -Sector 7 (manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials) relations with other sectors

In Azerbaijan economy input rates from the sector of wood and of products of wood and cork except furniture (manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials) to others are in the selected countries' standard range per only 28 sectors and in the 15 sectors (particularly in mining support service activities; financial and insurance activities; other business sector services) these figures are more than the selected countries' average. On the other hand, in the 7 sectors this measure is not in the selected countries' standard range and in the 20 sectors (particularly in fabricated metal products, except machinery and equipment; electrical equipment; telecommunications) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes more wood and of products of wood and cork unit (1.8359 vs 1.3468) than the selected countries' (Table 34) mainly enhancing need by the oil-gas sector.

In Azerbaijan economy input rates from other sectors to the sector of wood and of products of wood and cork -except furniture (manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials) are in the range of the selected countries' per 18 sectors and in the 9 sectors (particularly in rubber and plastics products; computer, electronic and optical products; electrical equipment; other manufacturing; repair and installation of machinery and equipment; real estate activities) these figures are more than the selected countries' average. On the other hand, in the 17 sectors this measure is not in the selected countries' standard range and in the 26 sectors (particularly in agriculture, forestry and fishing; food products, beverages and tobacco; textiles, wearing apparel, leather and related products; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes more input (2.3312 vs 2.2878) for each unit of final demand of the wood and of products of wood and cork sector than the selected countries' (Table 34).

Paper products and printing- Sector 8 (manufacture of paper and paper products; printing and reproduction of recorded media) relations with other sectors

In Azerbaijan economy input rates from the sector of paper products and printing (manufacture of paper and paper products; printing and reproduction of recorded media) to others are in the selected countries' standard range per only 12 sectors and in the 7 sectors (food products, beverages and tobacco; transportation and storage; financial and insurance activities) these figures are more than the selected countries' average. On the other hand, in the 23 sectors this measure is not in the selected countries' standard range and in the 28 sectors (particularly in mining and extraction of energy producing products; coke and refined petroleum products; manufacture of basic metals; motor vehicles, trailers and semi-trailers; other transport equipment) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes more paper products and printing unit (1.7529 vs 1.6800) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of paper products and printing (manufacture of paper and paper products; printing and reproduction of recorded media) are in the range of the selected countries per 17 sectors and in the 12 sectors (particularly in rubber and plastics products; computer, electronic and optical products; electrical equipment; motor vehicles, trailers and semi-trailers; construction;, real estate activities) these figures are more than the selected countries' average. On the other hand, in the 18 sectors this measure is not in the selected countries' standard range and in the 23 sectors (particularly in agriculture, forestry and fishing; publishing, audio-visual and broadcasting activities; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes more input (2.3839 vs 2.3566) for each unit of final demand of the paper products and printing sector than the selected countries (Table 34).

Coke and refined petroleum products- Sector 9 (manufacture of coke and refined petroleum products) relations with other sectors

In Azerbaijan economy input rates from the sector of coke and refined petroleum products (manufacture of coke and refined petroleum products) to others are in the selected countries' standard range per only 31 sectors and in the 14 sectors (real estate activities; human health and social work) these figures are more than the selected countries' average. On the other hand, in the 4 sectors this measure is not in the selected countries' standard range and in the 21 sectors (particularly in mining and extraction of energy producing products; other transport equipment; education) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes more coke and refined petroleum products unit (2.7022 vs 2.5765) than the selected countries (Table 34) due to the being resource dependant country.

In Azerbaijan economy input rates from other sectors to the sector of coke and refined petroleum products (manufacture of coke and refined petroleum products) are in the range of the selected countries' per 20 sectors and in the 2 sectors (coke and refined petroleum products; construction) these figures are more than the selected countries' average. On the other hand, in the 15 sectors this measure is not in the selected countries' standard range and in the 33 sectors (particularly in agriculture, forestry and fishing; publishing, audio-visual and broadcasting activities; financial and insurance activities; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (1.5637 vs 2.3436) for each unit of final demand of the coke and refined petroleum products sector than the selected countries (Table 34) due to low demand from the less developed refine facilities.

Chemicals and pharmaceutical products- Sector 10 (manufacture of chemicals and chemical products; manufacture of basic pharmaceutical products and pharmaceutical preparations) relations with other sectors

In Azerbaijan economy input rates from the sector of chemicals and pharmaceutical products (manufacture of chemicals and chemical products; manufacture of basic pharmaceutical products and pharmaceutical preparations) to others are in the selected countries' standard range per only 18 sectors and in the 6 sectors (motor vehicles, trailers and semi-trailers; other business sector services) these figures are more than the selected countries' average. On the other hand, in the 17 sectors this measure is not in the selected countries' standard range and in the 29 sectors (particularly in mining and extraction of energy producing products; coke and refined petroleum products) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less chemicals and pharmaceutical products unit (2.0010 vs 2.3906) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of chemicals and pharmaceutical products (manufacture of chemicals and chemical products; manufacture of basic pharmaceutical products and pharmaceutical preparations) are in the range of the selected countries per 20 sectors and in the 12 sectors (particularly in agriculture, forestry and fishing; textiles, wearing apparel, leather and related products; construction) these figures are more than the selected countries' average. On the other hand, in the 15 sectors this measure is not in the selected countries' standard range and in the 23 sectors (particularly in mining and quarrying of non-energy producing products; food products, beverages and tobacco; other business sector services; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (2.0207 vs 2.3395) for each unit of final demand of the chemicals and pharmaceutical products sector than the selected countries (Table 34).

Rubber and plastics products- Sector 11 (Manufacture of rubber and plastic products) relations with other sectors

In Azerbaijan economy input rates from the sector of rubber and plastics products (manufacture of rubber and plastic products) to others are in the selected countries' standard range per only 14 sectors and in the 20 sectors (food products, beverages and tobacco; textiles, wearing apparel, leather and related products; wood and of products of wood and cork (except furniture); paper products and printing; other manufacturing; repair and installation of machinery and equipment; financial and insurance activities) these figures are more than the selected countries' average. On the other hand, in the 21 sectors this measure is not in the selected countries' standard range and in the 15 sectors (particularly in mining and extraction of energy producing products; coke and refined petroleum products; motor vehicles, trailers and semi-trailers) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes more rubber and plastics products unit (2.9277 vs 1.6602) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of rubber and plastics products (manufacture of rubber and plastic products) are in the range of the selected countries per 14 sectors and in the 11 sectors (particularly in computer, electronic and optical products; electrical equipment; construction; real estate activities; public administration and defence; compulsory

social security) these figures are more than the selected countries' average. On the other hand, in the 21 sectors this measure is not in the selected countries' standard range and in the 24 sectors (particularly in agriculture, forestry and fishing; textiles, wearing apparel, leather and related products; publishing, audio-visual and broadcasting activities; other business sector services; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (2.1478 vs 2.4608) for each unit of final demand of the rubber and plastics products than the selected countries (Table 34).

Other non-metallic mineral products – Sector 12 (manufacture of other non-metallic mineral products) relations with other sectors

In Azerbaijan economy input rates from the sector of other non-metallic mineral products (manufacture of other non-metallic mineral products) to others are in the selected countries' standard range per only 18 sectors and in the 24 sectors (agriculture, forestry and fishing; mining and quarrying of non-energy producing products; food products, beverages and tobacco; computer, electronic and optical products; electricity, gas, water supply, sewerage, waste and remediation services; financial and insurance activities) these figures are more than the selected countries' average. On the other hand, in the 17 sectors this measure is not in the selected countries' standard range and in the 11 sectors (particularly in mining and extraction of energy producing products; motor vehicles, trailers and semi-trailers) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes more other non-metallic mineral products unit (1.7922 vs 1.4292) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of other non-metallic mineral products (manufacture of other non-metallic mineral products) are in the range of the selected countries per 17 sectors and in the 8 sectors (particularly in mining support service activities; computer, electronic and optical products; electrical equipment; motor vehicles, trailers and semitrailers) these figures are more than the selected countries' average. On the other hand, in the 18 sectors this measure is not in the selected countries' standard range and in the 27 sectors (particularly in agriculture, forestry and fishing; publishing, audio-visual and broadcasting activities; other business sector services; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (1.8423 vs 2.3334) for each unit of final demand of the other non-metallic mineral products sector than the selected countries (Table 34).

Manufacture of basic metals- Sector 13 (manufacture of basic metals) relations with other sectors

In Azerbaijan economy input rates from the sector of manufacture of basic metals (manufacture of basic metals) to others are in the selected countries' standard range per only 23 sectors and in the 16 sectors (electricity, gas, water supply, sewerage, waste and remediation services; it and other

information services; financial and insurance activities; real estate activities) these figures are more than the selected countries' average. On the other hand, in the 12 sectors this measure is not in the selected countries' standard range and in the 19 sectors (particularly in mining and extraction of energy producing products; motor vehicles, trailers and semi-trailers; other transport equipment) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less manufacture of basic metals unit (2.3737 vs 3.0910) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of manufacture of basic metals (manufacture of basic metals) are in the range of the selected countries' per 22 sectors and in the 3 sectors (other non-metallic mineral products; electrical equipment; motor vehicles, trailers and semi-trailers) these figures are more than the selected countries' average. On the other hand, in the 13 sectors this measure is not in the selected countries' standard range and in the 32 sectors (particularly in agriculture, forestry and fishing; publishing, audio-visual and broadcasting activities; financial and insurance activities; other business sector services; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (1.5645 vs 2.3631) for each unit of final demand of the manufacture of basic metals sector than the selected countries (Table 34).

Fabricated metal products, except machinery and equipment- Sector 14 (manufacture of fabricated metal products, except machinery and equipment) relations with other sectors

In Azerbaijan economy input rates from the sector of fabricated metal products, except machinery and equipment (manufacture of fabricated metal products, except machinery and equipment) to others are in the selected countries' standard range per only 21 sectors and in the 3 sectors (IT and other information services; real estate activities; other business sector services) these figures are more than the selected countries' average. On the other hand, in the 14 sectors this measure is not in the selected countries' standard range and in the 32 sectors (particularly in mining and extraction of energy producing products; coke and refined petroleum products; manufacture of basic metals) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less fabricated metal products, except machinery and equipment unit (1.2943 vs 1.6993) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of fabricated metal products, except machinery and equipment (manufacture of fabricated metal products, except machinery and equipment) are in the range of the selected countries per 17 sectors and in the 7 sectors (particularly in rubber and plastics products; machinery and equipment n.e.c.; motor vehicles, trailers and semi-trailers; construction) these figures are more than the selected countries' average. On the other hand, in the 18 sectors this measure is not in the selected countries' standard range and in the 28 sectors (particularly in food products, beverages and tobacco; publishing, audio-visual and broadcasting activities; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (1.6999 vs 2.3995) for each unit of final demand of the

fabricated metal products, except machinery and equipment sector than the selected countries (Table 34).

Computer, electronic and optical products- Sector 15 (manufacture of computer, electronic and optical products) relations with other sectors

In Azerbaijan economy input rates from the sector of computer, electronic and optical products (manufacture of computer, electronic and optical products) to others are in the selected countries' standard range per only 13 sectors and in the 27 sectors (transportation and storage; publishing, audio-visual and broadcasting activities; real estate activities) these figures are more than the selected countries' average. On the other hand, in the 22 sectors this measure is not in the selected countries' standard range and in the 8 sectors (particularly in mining and extraction of energy producing products; motor vehicles, trailers and semi-trailers; other transport equipment) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes more computer, electronic and optical products unit (1.9803 vs 1.3874) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of computer, electronic and optical products (manufacture of computer, electronic and optical products) are in the range of the selected countries' per 20 sectors and in the 5 sectors (particularly in other non-metallic mineral products; electrical equipment) these figures are more than the selected countries' average. On the other hand, in the 15 sectors this measure is not in the selected countries' standard range and in the 30 sectors (particularly in agriculture, forestry and fishing; food products, beverages and tobacco; publishing, audio-visual and broadcasting activities; financial and insurance activities; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (1.9538 vs 2.4315) for each unit of final demand of the computer, electronic and optical products unit sector than the selected countries (Table 34).

Electrical equipment - Sector 16 (manufacture of electrical equipment) relations with other sectors

In Azerbaijan economy input rates from the sector of electrical equipment (manufacture of electrical equipment) to others are in the selected countries' standard range per only 11 sectors and in the 32 sectors (wood and of products of wood and cork (except furniture); IT and other information services; financial and insurance activities; real estate activities) these figures are more than the selected countries' average. On the other hand, in the 24 sectors this measure is not in the selected countries' standard range and in the 3 sectors (mining and extraction of energy producing products; coke and refined petroleum products; other transport equipment) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes more electrical equipment unit (3.2216 vs 1.4653) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of electrical equipment (manufacture of electrical equipment) are in the range of the selected countries' per 14 sectors and in the 4 sectors (computer, electronic and optical products; electrical equipment; construction; real estate activities) these figures are more than the selected countries' average. On the other hand, in the 21 sectors this measure is not in the selected countries' standard range and in the 31 sectors (particularly in agriculture, forestry and fishing; food products, beverages and tobacco; publishing, audio-visual and broadcasting activities; financial and insurance activities; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes more input (2.5743 vs 2.4835) for each unit of final demand of the sector of electrical equipment than the selected countries (Table 34).

Machinery and equipment n.e.c. – Sector 17 (manufacture of machinery and equipment n.e.c.) relations with other sectors

In Azerbaijan economy input rates from the sector of machinery and equipment n.e.c. (manufacture of machinery and equipment n.e.c.) to others are in the selected countries' standard range per only 16 sectors and in the 26 sectors (particularly in mining support service activities; transportation and storage; IT and other information services; financial and insurance activities; public administration and defence; compulsory social security) these figures are more than the selected countries' average. On the other hand, in the 19 sectors this measure is not in the selected countries' standard range and in the 9 sectors (particularly in mining and extraction of energy producing products; coke and refined petroleum products; manufacture of basic metals) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes more machinery and equipment unit (1.9281 vs 1.4658) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of machinery and equipment n.e.c. (manufacture of machinery and equipment n.e.c.) are in the range of the selected countries' per 19 sectors and in the 6 sectors (particularly in motor vehicles, trailers and semi-trailers; other manufacturing; repair and installation of machinery and equipment; wholesale and retail trade, repair of motor vehicles) these figures are more than the selected countries' average. On the other hand, in the 16 sectors this measure is not in the selected countries' standard range and in the 29 sectors (particularly in agriculture, forestry and fishing; publishing, audio-visual and broadcasting activities; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (2.0022 vs 2.2405) for each unit of final demand of the machinery and equipment sector than the selected countries' (Table 34).

Motor vehicles, trailers and semi-trailers- Sector 18 (manufacture of motor vehicles, trailers and semi-trailers) relations with other sectors

In Azerbaijan economy input rates from the sector of motor vehicles, trailers and semi-trailers (manufacture of motor vehicles, trailers and semi-trailers) to others are in the selected countries' standard range per only 13 sectors and in the 29 sectors (particularly in mining and quarrying of non-energy producing products; machinery and equipment n.e.c.; electricity, gas, water supply, sewerage, waste and remediation services; IT and other information services; real estate activities; other business sector services; human health and social work) these figures are more than the selected countries' average. On the other hand, in the 22 sectors this measure is not in the selected countries' standard range and in the 6 sectors (particularly in mining and extraction of energy producing products; electrical equipment; other transport equipment) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes more motor vehicles, trailers and semi-trailers unit (1.5877 vs 1.3317) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of motor vehicles, trailers and semi-trailers (manufacture of motor vehicles, trailers and semi-trailers) are in the range of the selected countries' per 14 sectors and in the 5 sectors (particularly in chemicals and pharmaceutical products; other manufacturing; repair and installation of machinery and equipment; education) these figures are more than the selected countries' average. On the other hand, in the 21 sectors this measure is not in the selected countries' standard range and in the 30 sectors (particularly in textiles, wearing apparel, leather and related products; publishing, audio-visual and broadcasting activities; telecommunications; financial and insurance activities; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (1.5157 vs 2.2715) for each unit of final demand of the motor vehicles, trailers and semi-trailers sector than the selected countries (Table 34) due to the lack of production facilities of motor vehicles, trailers and semi-trailers.

Other transport equipment - Sector 19 (manufacture of other transport equipment) relations with other sectors

In Azerbaijan economy input rates from the sector of other transport equipment (manufacture of other transport equipment) to others are in the selected countries' standard range per only all sectors and in the 10 sectors (particularly in textiles, wearing apparel, leather and related products; paper products and printing; wholesale and retail trade; repair of motor vehicles; financial and insurance activities) these figures are more than the selected countries' average. On the other hand, in the 25 sectors (particularly in mining and extraction of energy producing products; coke and refined petroleum products; electrical equipment; public administration and defence; compulsory social security) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less other transport equipment unit (1.4102 vs 1.7394) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of other transport equipment (manufacture of other transport equipment) are in the range of the selected countries per 19 sectors and in the 2 sectors (other non-metallic mineral products; machinery and equipment n.e.c.) these

figures are more than the selected countries' average. On the other hand, in the 16 sectors this measure is not in the selected countries' standard range and in the 33 sectors (particularly in food products, beverages and tobacco; publishing, audio-visual and broadcasting activities; it and other information services; financial and insurance activities; other business sector services; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (1.3913 vs 2.4502) for each unit of final demand of the other transport equipment sector than the selected countries (Table 34).

Other manufacturing; repair and installation of machinery and equipment- Sector 20 (manufacture of furniture; other manufacturing; repair and installation of machinery and equipment) relations with other sectors

In Azerbaijan economy input rates from the sector of other manufacturing; repair and installation of machinery and equipment (manufacture of furniture; other manufacturing; repair and installation of machinery and equipment) to others are in the selected countries' standard range per only 21 sectors and in the 21 sectors (particularly in wood and of products of wood and cork (except furniture); motor vehicles, trailers and semi-trailers; financial and insurance activities; other business sector services; arts, entertainment, recreation and other service activities) these figures are more than the selected countries' average. On the other hand, in the 14 sectors this measure is not in the selected countries' standard range and in the 14 sectors (particularly in mining and extraction of energy producing products; coke and refined petroleum products; manufacture of basic metals; telecommunications) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes more repair and installation of machinery and equipment unit (1.9242 vs 1.3913) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of other manufacturing; repair and installation of machinery and equipment (manufacture of furniture; other manufacturing; repair and installation of machinery and equipment) are in the range of the selected countries per 21 sectors and in the 13 sectors (particularly in rubber and plastics products; electrical equipment; education) these figures are more than the selected countries' average. On the other hand, in the 14 sectors this measure is not in the selected countries' standard range and in the 22 sectors (particularly in agriculture, forestry and fishing; textiles, wearing apparel, leather and related products; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (2.2237 vs 2.2238) for each unit of final demand of the repair and installation of machinery and equipment sector than the selected countries' (Table 34).

Electricity, gas, water supply, sewerage, waste and remediation services- Sector 21 (Electricity, gas, steam and air conditioning supply; water collection, treatment and supply; sewerage; waste collection, treatment and disposal activities; materials recovery; remediation activities and other waste management services) relations with other sectors

In Azerbaijan economy input rates from the sector of electricity, gas, water supply, sewerage, waste and remediation services (electricity, gas, steam and air conditioning supply; water collection, treatment and supply; sewerage; waste collection, treatment and disposal activities; materials recovery; remediation activities and other waste management services) to others are in the selected countries' standard range per only 20 sectors and in the 3 sectors (agriculture, forestry and fishing; food products, beverages and tobacco; financial and insurance activities) these figures are more than the selected countries' average. On the other hand, in the 15 sectors this measure is not in the selected countries' standard range and in the 32 sectors (particularly in mining and extraction of energy producing products; coke and refined petroleum products; motor vehicles, trailers and semi-trailers; wholesale and retail trade; repair of motor vehicles; telecommunications) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less electricity, gas, water supply, sewerage, waste and remediation services unit (1.8261 vs 2.8121) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of electricity, gas, water supply, sewerage, waste and remediation services (electricity, gas, steam and air conditioning supply; water collection, treatment and supply; sewerage; waste collection, treatment and disposal activities; materials recovery; remediation activities and other waste management services) are in the range of the selected countries per 20 sectors and in the 15 sectors (particularly in rubber and plastics products; other non-metallic mineral products; manufacture of basic metals; computer, electronic and optical products; electrical equipment; machinery and equipment n.e.c.; motor vehicles, trailers and semi-trailers; construction; real estate activities) these figures are more than the selected countries' average. On the other hand, in the 15 sectors this measure is not in the selected countries' standard range and in the 20 sectors (particularly in agriculture, forestry and fishing; food products, beverages and tobacco; financial and insurance activities; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (2.0712 vs 2.1131) for each unit of final demand of the electricity, gas, water supply, sewerage, waste and remediation services sector than the selected countries (Table 34).

Construction- Sector 22 (construction of buildings) relations with other sectors

In Azerbaijan economy input rates from the sector of construction (construction of buildings) to others are in the selected countries' standard range per only 14 sectors and in the 27 sectors (particularly in electricity, gas, water supply, sewerage, waste and remediation services; accommodation and food services; IT and other information services; financial and insurance activities; public administration and defence; compulsory social security; human health and social work; arts, entertainment, recreation and other service activities; mining support service activities; education) these figures are more than the selected countries' average. On the other hand, in the 21 sectors this measure is not in the selected countries' standard range and in the 8 sectors (particularly in mining and extraction of energy producing products; mining and quarrying of nonenergy producing products; manufacture of basic metals; other transport equipment) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes more construction unit (2.7262 vs 1.6155) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of construction (construction of buildings) are in the range of the selected countries' per 21 sectors and in the 6 sectors (particularly in motor vehicles, trailers and semi-trailers; computer, electronic and optical products; construction; real estate activities) these figures are more than the selected countries' average. On the other hand, in the 14 sectors this measure is not in the selected countries' standard range and in the 29 sectors (particularly in agriculture, forestry and fishing; food products, beverages and tobacco; textiles, wearing apparel, leather and related products; publishing, audio-visual and broadcasting activities; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (1.6462 vs 2.2706) for each unit of final demand of the construction sector than the selected countries (Table 34).

Wholesale and retail trade; repair of motor vehicles- Sector 23 (wholesale and retail trade and repair of motor vehicles and motorcycles) relations with other sectors

In Azerbaijan economy input rates from the sector of wholesale and retail trade; repair of motor vehicles (wholesale and retail trade and repair of motor vehicles and motorcycles) to others are in the selected countries' standard range per only 6 sectors and in the 2 sectors (machinery and equipment n.e.c.; mining and quarrying of non-energy producing products) these figures are more than the selected countries' average. On the other hand, in the 29 sectors this measure is not in the selected countries' standard range and in the 33 sectors (particularly in mining and extraction of energy producing products; motor vehicles, trailers and semi-trailers; other transport equipment; telecommunications; education) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less wholesale, retail trade, repair of motor vehicles unit (2.7381 vs 5.4214) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of wholesale and retail trade; repair of motor vehicles (wholesale and retail trade and repair of motor vehicles and motorcycles) are in the range of the selected countries per 20 sectors and in the 6 sectors (particularly in coke and refined petroleum products; computer, electronic and optical products; electrical equipment; other transport equipment; construction) these figures are more than the selected countries' average. On the other hand, in the 15 sectors this measure is not in the selected countries' standard range and in the 29 sectors (particularly in agriculture, forestry and fishing; textiles, wearing apparel, leather and related products; electricity, gas, water supply, sewerage, waste and remediation services;, publishing, audio-visual and broadcasting activities; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (1.3771 vs 1.7758) for each unit of final demand of the wholesale, retail trade, repair of motor vehicles sector than the selected countries (Table 34).

Transportation and storage - Sector 24 (land transport and transport via pipelines; water transport; air transport; warehousing and support activities for transportation; postal and courier activities) relations with other sectors

In Azerbaijan economy input rates from the sector of transportation and storage (land transport and transport via pipelines; water transport; air transport; warehousing and support activities for transportation; postal and courier activities) to others are in the selected countries' standard range per only 9 sectors and in the 6 sectors (agriculture, forestry and fishing; mining and quarrying of non-energy producing products; food products, beverages and tobacco; textiles, wearing apparel, leather and related products; electricity, gas, water supply, sewerage, waste and remediation services;, human health and social work) these figures are more than the selected countries' average. On the other hand, in the 26 sectors this measure is not in the selected countries' standard range and in the 29 sectors (particularly in mining and extraction of energy producing products; other transport equipment; wholesale and retail trade; repair of motor vehicles; telecommunications; education) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less transportation and storage unit (2.2003 vs 3.2592) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of transportation and storage (land transport and transport via pipelines; water transport; air transport; warehousing and support activities for transportation; postal and courier activities) are in the range of the selected countries' per 19 sectors and in the 17 sectors (particularly in paper products and printing; computer, electronic and optical products; electrical equipment; machinery and equipment n.e.c.; motor vehicles, trailers and semi-trailers) these figures are more than the selected countries' average. On the other hand, in the 16 sectors this measure is not in the selected countries' standard range and in the 18 sectors (particularly in agriculture, forestry and fishing; financial and insurance activities; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (2.1067 vs 2.1979) for each unit of final demand of the transportation and storage sector than the selected countries (Table 34).

Accommodation and food services- Sector 25 (accommodation; food and beverage service activities) relations with other sectors

In Azerbaijan economy input rates from the sector of accommodation and food services (accommodation; food and beverage service activities) to others are in the selected countries' standard range per only 22 sectors and in the 8 sectors (particularly in agriculture, forestry and fishing; other manufacturing; repair and installation of machinery and equipment; other business sector services; arts, entertainment, recreation and other service activities) these figures are more than the selected countries' average. On the other hand, in the 13 sectors this measure is not in the selected countries' standard range and in the 27 sectors (particularly in mining and extraction of energy producing products; other transport equipment; fabricated metal products, except machinery and equipment; motor vehicles, trailers and semi-trailers; education) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less accommodation and food services unit (1.3187 vs 1.3321) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of accommodation and food services (accommodation; food and beverage service activities) are in the range of the selected countries per 19 sectors and in the 11 sectors (particularly in computer, electronic and optical products; electrical equipment; motor vehicles, trailers and semi-trailers; construction) these figures are more than the selected countries' average. On the other hand, in the 16 sectors this measure is not in the selected countries' standard range and in the 24 sectors (particularly in textiles, wearing apparel, leather and related products; publishing, audio-visual and broadcasting activities; financial and insurance activities; other business sector services; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (1.5812 vs 2.0485) for each unit of final demand of the accommodation and food services sector than the selected countries (Table 34).

Publishing, audio-visual and broadcasting activities- Sector 26 (publishing activities; motion picture, video and television programme production, sound recording and music publishing activities; programming and broadcasting activities) relations with other sectors

In Azerbaijan economy input rates from the sector of publishing, audio-visual and broadcasting activities (publishing activities; motion picture, video and television programme production, sound recording and music publishing activities; programming and broadcasting activities) to others are in the selected countries' standard range per only 14 sectors. On the other hand, in the 21 sectors this measure is not in the selected countries' standard range and in the all sectors (particularly in mining and extraction of energy producing products; coke and refined petroleum products; motor vehicles, trailers and semi-trailers; other transport equipment; wholesale and retail trade; repair of motor vehicles; telecommunications) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less publishing, audio-visual and broadcasting activities unit (1.0945 vs 1.3415) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of publishing, audio-visual and broadcasting activities (publishing activities; motion picture, video and television programme production, sound recording and music publishing activities; programming and broadcasting activities) are in the range of the selected countries per 17 sectors and in the 12 sectors (particularly in rubber and plastics products; computer, electronic and optical products; electrical equipment; motor vehicles, trailers and semi-trailers; other manufacturing, repair and installation of machinery and equipment) these figures are more than the selected countries' average. On the other hand, in the 18 sectors this measure is not in the selected countries' standard range and in the 23 sectors (particularly in agriculture, forestry and fishing; textiles, wearing apparel, leather and related products; financial and insurance activities; wholesale and retail trade, repair of motor vehicles) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (1.7914 vs 2.1755) for each unit of final demand of the publishing, audio-visual and broadcasting activities sector than the selected countries (Table 34).

Telecommunications - Sector 27 (telecommunications) relations with other sectors

In Azerbaijan economy input rates from the sector of telecommunications (telecommunications) to others are in the selected countries' standard range per only 13 sectors and in the 2 sectors (accommodation and food services; real estate activities) these figures are more than the selected countries' average. On the other hand, in the 22 sectors this measure is not in the selected countries' standard range and in the 33 sectors (particularly in mining and extraction of energy producing products; coke and refined petroleum products; motor vehicles, trailers and semi-trailers; other transport equipment) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less telecommunications unit (1.3696 vs 1.8632) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of telecommunications (telecommunications) are in the range of the selected countries' per 22 sectors and in the 3 sectors (electrical equipment; machinery and equipment n.e.c.; motor vehicles, trailers and semi-trailers) these figures are more than the selected countries' average. On the other hand, in the 13 sectors this measure is not in the selected countries' standard range and in the 32 sectors (particularly in agriculture, forestry and fishing; food products, beverages and tobacco; textiles, wearing apparel, leather and related products; electricity, gas, water supply, sewerage, waste and remediation services;, wholesale and retail trade; repair of motor vehicles; transportation and storage; publishing, audio-visual and broadcasting activities; human health and social work) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (1.2668 vs 1.9442) for each unit of final demand of the telecommunications sector than the selected countries (Table 34).

IT and other information services- Sector 28 (computer programming, consultancy and related activities; information service activities) relations with other sectors

In Azerbaijan economy input rates from the sector of IT and other information services (computer programming, consultancy and related activities; information service activities) to others are in the selected countries' standard range per only 27 sectors and in the 6 sectors (particularly in publishing, audio-visual and broadcasting activities; financial and insurance activities; other business sector services) these figures are more than the selected countries' average. On the other hand, in the 8 sectors this measure is not in the selected countries' standard range and in the 29 sectors (particularly in mining and extraction of energy producing products; coke and refined petroleum products; manufacture of basic metals; fabricated metal products, except machinery and equipment; computer, electronic and optical products; other transport equipment) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less IT and other information services unit (1.3138 vs 1.4059) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of IT and other information services (computer programming, consultancy and related activities; information service

activities) are in the range of the selected countries per 18 sectors and in the 16 sectors (particularly in other non-metallic mineral products; manufacture of basic metals; electrical equipment; machinery and equipment n.e.c.; motor vehicles, trailers and semi-trailers; construction) these figures are more than the selected countries' average. On the other hand, in the 17 sectors this measure is not in the selected countries' standard range and in the 19 sectors (particularly in agriculture, forestry and fishing; publishing, audio-visual and broadcasting activities; financial and insurance activities; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes more input (1.8836 vs 1.8242) for each unit of final demand of the IT and other information services sector than the selected countries (Table 34).

Financial and insurance activities- Sector 29 (financial service activities, except insurance and pension funding; insurance, reinsurance and pension funding, except compulsory social security; Activities auxiliary to financial services and insurance activities) relations with other sectors

In Azerbaijan economy input rates from the sector of financial and insurance activities (financial service activities, except insurance and pension funding; insurance, reinsurance and pension funding, except compulsory social security; Activities auxiliary to financial services and insurance activities) to others are in the selected countries' standard range per only 34 sectors. On the other hand, in the 1 sector (motor vehicles, trailers and semi-trailers) this measure is not in the selected countries' standard range and in the all sectors (particularly in mining and extraction of energy producing products; coke and refined petroleum products; manufacture of basic metals; fabricated metal products, except machinery and equipment; computer, electronic and optical products; electrical equipment; other transport equipment; real estate activities) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less financial and insurance activities unit (1.8370 vs 6.0499) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of financial and insurance activities (financial service activities, except insurance and pension funding; insurance, reinsurance and pension funding, except compulsory social security; Activities auxiliary to financial services and insurance activities) are in the range of the selected countries per 15 sectors and in the 17 sectors (particularly in wood and of products of wood and cork (except furniture); rubber and plastics products; computer, electronic and optical products; electrical equipment; machinery and equipment n.e.c.; motor vehicles, trailers and semi-trailers; other manufacturing; repair and installation of machinery and equipment; construction) these figures are more than the selected countries' average. On the other hand, in the 20 sectors this measure is not in the selected countries' standard range and in the 18 sectors (particularly in agriculture, forestry and fishing; textiles, wearing apparel, leather and related products; publishing, audio-visual and broadcasting activities; human health and social work) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (1.5341 vs 2.0956) for each unit of final demand of the financial and insurance activities sector than the selected countries (Table 34).

Real estate activities- Sector 30 (real estate activities) relations with other sectors

In Azerbaijan economy input rates from the sector of real estate activities (real estate activities) to others are in the selected countries' standard range per only 17 sectors and in the 24 sectors (particularly in mining support service activities; wood and of products of wood and cork (except furniture); paper products and printing; rubber and plastics products; electricity, gas, water supply, sewerage, waste and remediation services; financial and insurance activities) these figures are more than the selected countries' average. On the other hand, in the 18 sectors this measure is not in the selected countries' standard range and in the 11 sectors (particularly in mining and extraction of energy producing products; coke and refined petroleum products; telecommunications; education) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes more real estate activities unit (2.6666 vs 1.8805) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of real estate activities (real estate activities) are in the range of the selected countries' per 25 sectors and in the 14 sectors (particularly in coke and refined petroleum products; manufacture of basic metals; computer, electronic and optical products; electrical equipment; motor vehicles, trailers and semi-trailers) these figures are more than the selected countries' average. On the other hand, in the 10 sectors this measure is not in the selected countries' standard range and in the 21 sectors (particularly in agriculture, forestry and fishing; publishing, audio-visual and broadcasting activities; financial and insurance activities; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes more input (1.5806 vs 1.4240) for each unit of final demand of the real estate activities sector than the selected countries (Table 34).

Other business sector services - Sector 31 relations with other sectors

In Azerbaijan economy input rates from the sector of other business services to the rest sectors are in the selected countries' standard range per only 6 sectors. On the other hand, in the 29 sectors this measure is not in the selected countries' standard range and in the all sectors (particularly in mining and extraction of energy producing products; coke and refined petroleum products; manufacture of basic metals; other transport equipment) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less other business sector services unit (1.7995 vs 4.2448) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of other business sector services are in the range of the selected countries' per 19 sectors and in the 19 sectors (particularly in wood and of products of wood and cork (except furniture); computer, electronic and optical products; electrical equipment; motor vehicles, trailers and semi-trailers; other manufacturing; repair and installation of machinery and equipment; construction;, it and other information services) these figures are more than the selected countries' average. On the other hand, in the 16 sectors this

measure is not in the selected countries' standard range and in the 16 sectors (particularly in other transport equipment; wholesale and retail trade; repair of motor vehicles; publishing, audio-visual and broadcasting activities; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (1.8486 vs 1.8739) for each unit of final demand of the other business sector services sector than the selected countries (Table 34).

Public administration and defence; compulsory social security- Sector 32 (public administration and defence; compulsory social security) relations with other sectors

In Azerbaijan economy input rates from the sector of public administration and defence; compulsory social security to others are in the selected countries' standard range per only 25 sectors and in the 6 sectors (particularly in rubber and plastics products; education; arts, entertainment, recreation and other service activities) these figures are more than the selected countries' average. On the other hand, in the 10 sectors this measure is not in the selected countries' standard range and in the 29 sectors (particularly in mining and extraction of energy producing products; motor vehicles, trailers and semi-trailers; wholesale and retail trade; repair of motor vehicles; other transport equipment) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less public administration and defence unit (1.0466 vs 1.0636) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of public administration and defence; compulsory social security are in the range of the selected countries' per 17 sectors and in the 12 sectors (particularly in wood and of products of wood and cork (except furniture); computer, electronic and optical products; electrical equipment; machinery and equipment n.e.c.; motor vehicles, trailers and semi-trailers; construction) these figures are more than the selected countries' average. On the other hand, in the 18 sectors this measure is not in the selected countries' standard range and in the 23 sectors (particularly in agriculture, forestry and fishing; textiles, wearing apparel, leather and related products; human health and social work; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (1.5684 vs 1.7365) for each unit of final demand of the public administration and defence sector than the selected countries (Table 34).

Education- Sector 33 (education) relations with other sectors

In Azerbaijan economy input rates from the sector of education to others are in the selected countries' standard range per only 30 sectors and in the 7 sectors (particularly in motor vehicles, trailers and semi-trailers; other manufacturing; repair and installation of machinery and equipment; public administration and defence; compulsory social security; human health and social work) these figures are more than the selected countries' average. On the other hand, in the 5 sectors this measure is not in the selected countries' standard range and in the 28 sectors (particularly in mining and extraction of energy producing products; wood and of products of wood and cork (except

furniture); chemicals and pharmaceutical products; electrical equipment) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less education unit (1.0266 vs 1.0378) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of education are in the range of the selected countries per 21 sectors and in the 8 sectors (particularly in motor vehicles, trailers and semi-trailers; construction; public administration and defence; compulsory social security) these figures are more than the selected countries' average. On the other hand, in the 14 sectors this measure is not in the selected countries' standard range and in the 27 sectors (particularly in agriculture, forestry and fishing; textiles, wearing apparel, leather and related products; publishing, audio-visual and broadcasting activities; financial and insurance activities; other business sector services; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (1.1622 vs 1.4688) for each unit of final demand of the education sector than the selected countries (Table 34).

Human health and social work- Sector 34 (human health activities; residential care activities; social work activities without accommodation) relations with other sectors

In Azerbaijan economy input rates from the sector of human health and social work (human health activities; residential care activities; social work activities without accommodation) to others are in the selected countries' standard range per only 30 sectors. On the other hand, in the 5 sectors this measure is not in the selected countries' standard range and in the all sectors (particularly in mining and extraction of energy producing products; wood and of products of wood and cork (except furniture); chemicals and pharmaceutical products; machinery and equipment n.e.c.; construction;, wholesale and retail trade, repair of motor vehicles) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less human health and social work unit (1.0472 vs 1.5530) than the selected countries' (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of human health and social work (human health activities; residential care activities; social work activities without accommodation) are in the range of the selected countries per 21 sectors and in the 20 sectors (particularly in mining and extraction of energy producing products; coke and refined petroleum products; computer, electronic and optical products; electrical equipment; motor vehicles, trailers and semi-trailers; construction) these figures are more than the selected countries' average. On the other hand, in the 14 sectors this measure is not in the selected countries' standard range and in the 15 sectors (particularly in publishing, audio-visual and broadcasting activities; telecommunications; it and other information services; financial and insurance activities; other business sector services; arts, entertainment, recreation and other service activities) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes more input (1.7553 vs 1.6768) for each unit of final demand of the human health and social work sector than the selected countries (Table 34).

Arts, entertainment, recreation and other service activities- Sector 35 relations with other sectors

In Azerbaijan economy input rates from the sector of arts, entertainment, recreation and other service activities to others are in the selected countries' standard range per only 9 sectors and in the 1 sector (arts, entertainment, recreation and other service activities) this figure is more than the selected countries' average. On the other hand, in the 26 sectors this measure is not in the selected countries' standard range and in the 34 sectors (particularly in agriculture, forestry and fishing; wood and of products of wood and cork (except furniture); manufacture of basic metals; fabricated metal products, except machinery and equipment; computer, electronic and optical products; electrical equipment; motor vehicles, trailers and semi-trailers; other transport equipment; construction) the rates are under the selected countries' average (Appendix X, XI). Similarly in the Azerbaijan economy for each unit of final demand consumes less arts, entertainment, recreation and other service activities unit (1.1018 vs 1.4027) than the selected countries (Table 34).

In Azerbaijan economy input rates from other sectors to the sector of arts, entertainment, recreation and other service activities are in the range of the selected countries per 23 sectors and in the 12 sectors (particularly in agriculture, forestry and fishing; machinery and equipment n.e.c.; motor vehicles, trailers and semi-trailers; other manufacturing; repair and installation of machinery and equipment; construction;, accommodation and food services; public administration and defence; compulsory social security) these figures are more than the selected countries' average. On the other hand, in the 12 sectors this measure is not in the selected countries' standard range and in the 23 sectors (particularly in publishing, audio-visual and broadcasting activities; financial and insurance activities; textiles, wearing apparel, leather and related products; it and other information services; education) the rates are under the selected countries' average (Appendix X, XI). All in all, Azerbaijan economy consumes less input (1.6643 vs 2.0429) for each unit of final demand of the arts, entertainment, recreation and other service activities sector than the selected countries (Table 34).

Table 35: The summary of the sectors

Azerbaijan Sectors	Azerbaijan Sector No	The Selected Countries' Sector No	
Crop and animal production, hunting and related service activities	1		
Forestry and logging	2		1
Fishing and aquaculture	3	Agriculture, forestry and fishing	
Mining of coal and lignite	4	Mining and autoration of an analysis and vains	2
Extraction of crude petroleum and natural gas	5	Mining and extraction of energy producing products	2
Mining of metal ores	6	Mining and asserting of any angert and desire	3
Other mining and quarrying	7	Mining and quarrying of non-energy producing products	,
Mining support service activities	8	Mining support service activities	4
Manufacture of food products	9		
Manufacture of beverages	10		5
Manufacture of tobacco products	11	Food products, beverages and tobacco	
Manufacture of textiles	12		
Manufacture of wearing apparel	13	Toutiles wessing amount leather and related	6
Manufacture of leather and related products	14	Textiles, wearing apparel, leather and related products	
Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	15	Wood and of products of wood and cork (except furniture)	7
Manufacture of paper and paper products	16		
Printing and reproduction of recorded media	17	Paper products and printing	8
Manufacture of coke and refined petroleum products	18	Coke and refined petroleum products	9
Manufacture of chemicals and chemical products	19	coke and remied petroleum products	
Manufacture of Chemicals and Chemical products		1	10
Manufacture of basic pharmaceutical products and pharmaceutical preparations	20	Chemicals and pharmaceutical products	
Manufacture of rubber and plastic products	21	Rubber and plastics products	11
Manufacture of other non-metallic mineral products	22	Other non-metallic mineral products	12
Manufacture of basic metals	23	Manufacture of basic metals	13
Manufacture of fabricated metal products, except machinery and equipment	24	Fabricated metal products, except machinery and equipment	14
Manufacture of computer, electronic and optical products	25	Computer, electronic and optical products	15
Manufacture of electrical equipment	26	Electrical equipment	16
Manufacture of machineryand equipment n.e.c.	27	Machinery and equipment n.e.c.	17
Manufacture of motor vehicles, trailers and semi-trailers	28	Motor vehicles, trailers and semi-trailers	18
Manufacture of other transport equipment	29	Other transport equipment	19
Manufacture of furniture	30	outer transport equipment	
Other manufacturing	31		20
Repair and installation of machinery and equipment	32	Other manufacturing; repair and installation of machinery and equipment	
Electricity, gas, steam and air conditioning supply	33	machinery and equipment	
Water collection, treatment and supply	34	1	
Sewerage	35	1	21
Waste collection, treatment and disposal activities; materials recovery	36	1	
Remediation activities and other waste management services	37	Electricity, gas, water supply, sewerage, waste and remediation services	
Construction of buildings	38	Construction	22
·		Wholesale and retail trade; repair of motor	23
Wholesale and retail trade and repair of motor vehicles and motorcycles	39	vehicles	
Land transport and transport via pipelines	40	+	
Water transport	41	-	24
Air transport	42	-	24
Warehousing and support activities for transportation	43		
Postal and courier activities	44	Transportation and storage	1
Accommodation	45	-	25
Food and beverage service activities	46	Accommodation and food services	-
Publishing activities	47	4	26
Motion picture, video and television programme production, sound recording and music publishing activities	48	Publishing, audio-visual and broadcasting activities	26

Programming and broadcasting activities	49		
Telecommunications	50	Telecommunications	27
Computer programming, consultancy and related activities	51		28
Information service activities	52	IT and other information services	26
Financial service activities, except insurance and pension funding	53	_	
Insurance, reinsurance and pension funding, except compulsorysocial security	54		29
Activities auxiliary to financial services and insurance activities	55	Financial and insurance activities	
Real estate activities	56	Real estate activities	30
Legal and accounting activities	57		
Activities of head offices; management consultancy activities	58		
Architectural and engineering activities; technical testing and analysis	59		
Scientific research and development	60		
Advertising and market research	61		
Other professional, scientific and technical activities	62		
Veterinary activities	63		31
Rental and leasing activities	64		
Employment activities	65		
Travel agency, tour operator reservation service and related activities	66		
Security and investigation activities	67		
Services to buildings and landscape activities	68		
Office administrative, office support and other business support activities	69	Other business sector services	
Public administration and defence; compulsory social security	70	Public administration and defence; compulsory social security	32
Education	71	Education	33
Human health activities	72		
Residential care activities	73		34
Social work activities without accommodation	74	Human health and social work	
Creative, arts and entertainment activities	75		
Libraries, archives, museums and other cultural activities	76		
Gambling and betting activities	77		35
Sports activities and amusement and recreation activities	78	Auto outoutoimment meanation and attraction	
Activities of membership organisations	79	Arts, entertainment, recreation and other service activities	
Repair of computers and personal and household goods	80		36
Other personal service activities	81	Private households with employed persons	30

Source: The authors own summary based on OECD and The State Statistical Committee of the Republic of Azerbaijan data

4.2. Interviews' outcomes

The first question asks whether the country has managed to utilize the resource wealth in the most efficient way or not. Responses are quite varied, however there is common belief. In the countries where there are deep economic issues, the respondents believe that, they could not manage efficiently. The main points are the current low social development indicators, the living standards. The most interesting answer is related to the term of efficient: the efficiency could be assessed based on the relativeness. So, for different benefit groups efficiency rate can be observed from 5% till 90%. In the short and long terms it is almost impossible to change the current picture in the efficient management of the resource revenue. Alternatively, in case of the countries with leading positive experience, cannot be considered perfect scenario, which motivate always to reach maximum benefit to all.

The second question tries to find the decision making in the dealing with the resource money, whether to spend, invest and reserve in a country or abroad. The importance of the learning other resource dependent economies' experience who have done well, emphasized in the return. Other scholars believe that, saving or investing the resource revenues (minimum half) abroad can be

considered as one of the efficient ways. And the current local expenditures within a resource dependent would mainly be financed via the return rates of the investments in abroad. On the contrast views, the scholars appreciate the utilization of the resource rents in a country mainly in order to rebuild economy and the foster the economic development with minimum investment abroad. However, in case of the investing out of a country, the return revenues need to be reinvested locally again.

The next question completes the second one logically. So, the author is keen to know the efficient place to keep the resource reserves for the future generations: in a country or abroad. Interestingly, some respondents believe the only way to handle the reserves to the future to invest the rents in the local economic development and education. It is clear that the countries where there is need to the capital, the utilizing and keeping rents internally can be considered the efficient decision. However, in practice to apply this, is not easy job and not successful usually. That is why, the main part of the reserves would be allocated in abroad in order to prevent any internal risks caused by miss-governance, economic conditions and ensure global transparent environment.

The countries previous experience in the utilization of the resource rents have been evaluated differently by the respondents. The scholars mentioned that reinvestments the industrial, business, education sectors, all in all productive sectors are more efficient decisions by the government. The transparency and the efficiency of the internal usage of the rents are highlighted as the key factors by the scholars. Without noticing those two factors there is no meaning to talk further about the each country's experience. Other valuable thoughts are importance of the advance determination of the benefit groups before any investment decisions and the keep the resource-rent far from the political interests to prevent the misusing of them.

Based on the scholars' returns, the author summarizes that, the traditional sectors, like agriculture, tourism, manufacturing, petrochemical industries were leading part of the resource dependent countries' economies can foster the total output in the relevant states. On the other hand, communications, IT, infrastructure have been considered as the key directions for the countries.

In the question whether, the resource dependent economies' past historical experience can be considered as a sample for the Dutch disease, opinions are more close each other. The countries where the resource sector challenges are leading, are likely to be considered as a good example. However, the key mutual return by the scholar is that, every country has own pass and it is hard to judge or say any specific country should be called as one infected by these diseases. And in addition to characterizing the experiences, the scholars believe that the dependence or addiction from the resource sector should be minimized in all manners in order to ensure independent environment for the rest of the economic sectors in an economy.

Regardless the current economic challenges in the resource economies, the scholars believe that, the delivered monetary policies by the government have been efficient including stabilizing currency regimes, inflation levels. However there have been also challenges and passive expansionary monetary policies in some countries.

Apart from that, the scholars support the implementation of the limitation or control over the resource rent transfers to the public spending. In case of direct infection the rents to the public expenditure can lead varied issues, particularly in the high volatility in the world energy markets.

Additionally, the respondents emphasize the importance of the traditional sectors role in the total export via elimination resource-based goods and services. As the final idea of the interviews, whether these resource-rich countries can learn from each-other in the managing oil-gas rents, the scholars believe that, the countries can learn from their unsuccessful experiences in order to tackle the relevant challenges.

The author has collected interesting responses from the scholars in Azerbaijan on the country's economy. The content of the interviews had been summarized and shared via social media tool to the audience: Nijat meets Experts in Baku: The Economic Situation in Azerbaijan (https://www.youtube.com/watch?v=eyCbgoMHXV0)

Here are the key asked points and summary of the feedbacks:

The current situation in the Azerbaijan economy and crucial changes in the recent years – The national currency has been volatile in the neighbor oil exporting countries, Russian Federation, Kazakhstan, Azerbaijan and the government has applied floating currency regime in Azerbaijan. Decision makers in the central banking system of Azerbaijan could not find out the real market price of the national currency. The Azerbaijan economy has been mono product-oil exporting country particularly since 2014. The economic reforms by the government are highlighted by another scholar as the positive sign in the current volatile environment. On the other response inefficient usage of the financial reserves of the Central Bank of Azerbaijan is mentioned particularly. Closing down of the commercial banks by the Azerbaijan government cannot be the real solution in the current issues due to their weak participation in the banking system.

As the key recent reform/action package (Road Map) by the government in Azerbaijan is evaluated by the scholars too: Generally respondents' and author believed and noted that this reform package might be considered as the good sign of the reforms and initiatives. Definitely, only time will show how this reforms will work. However, since the document accepted, there is still no crucial changes in the matter of the economic development.

The new approach in terms of the fiscal policy in the new document can lead better results as hope. Any direct subsidizing connection between public expenditure and non-oil gas growth in the total output should not be strong. Attracting new foreign direct investment should be set as priority in the government's agenda. Non-oil sector should be focused more while it holds the main part of the employment in Azerbaijan.

Taxation in the Azerbaijan economy, any increase in the rates by the government whether are expected and welcomed is asked: Stable approach in the taxation by the governors is crucial for the private sector. Any increase in the rates can lead mistrust between tax payers and the government. Transfers from the oil rents will be again crucial part of the public spending. The volume of the public spending are highly correlated with the state revenue. In the higher budget the government has been spending to the main infrastructural projects. In the smaller budget the government will not go to the higher spending, hope there will be no need to increase any tax revenue via increasing the tax rates. In worst scenario any increase in the tax rates should not be dramatic and should not demotivate the active players in the economy.

The human resources policy in Azerbaijan: The bridges between institutions, employers, employees, job seekers should be focused to minimize the issues on the agenda. The approach to the general employment issues should be reformulated and enhanced.

The government's approach to the agriculture in Azerbaijan: The innovation in the agriculture should be focused to reach to the goals via active communication between the authorities and the producers.

4.3. Results of Optimization - Goals

In the first goal, the author has compared optimal maximum output (solved via linear programming tool) with the given output value per 80 sectors. As the result of this cluster, the author groups the sectors in two directions (Table 36-37):

The first group: production is over optimum value-66 sectors are in this group. It is clear that, extraction of crude petroleum and natural gas sector has one of the greatest portion of the over optimum level. The main reason might be existence of the resource dependent economy in Azerbaijan. Apart from that, the author highlights the construction and public administration, defense sector as the overproducing areas. For those two, the reason might be huge government expenditure in infrastructure and public authorities and military.

The second group: production is under optimum value-14 sectors are in this group. This group shows quite interesting results. So, as the key driver of the economy, manufacture sector performs less efficiently, particularly transportation means and pharmaceutical industries. Not surprisingly, it has connection with the poor developed scientific and technical activities.

Table 36. Goal 1 - economic sectorial view in compare with optimal maximum output, the first group

•	maximum output, the mst group	
Production is over optimum value		
Crop and animal production, hunting and related service activities	Electricity, gas, steam and air conditioning supply	
Forestry and logging	Publishing activities	
Fishing and aquaculture	Motion picture, video and television programme production, sound recording and music publishing activities	
Extraction of crude petroleum and natural gas	Programming and broadcasting activities	
Mining of metal ores	Telecommunications	
Mining support service activities	Computer programming, consultancy and related activities	
Manufacture of food products	Information service activities	
Manufacture of beverages	Financial service activities, except insurance and pension funding	
Manufacture of tobacco products	Insurance, reinsurance and pension funding, except compulsorysocial security	
Manufacture of textiles	Activities auxiliary to financial services and insurance activities	
Manufacture of wearing apparel	Real estate activities	
Manufacture of leather and related products	Legal and accounting activities	
Printing and reproduction of recorded media	Activities of head offices; management consultancy activities	
Food and beverage service activities	Advertising and market research	
Manufacture of chemicals and chemical products	Veterinary activities	
Manufacture of other non-metallic mineral products	Rental and leasing activities	
Manufacture of basic metals	Employment activities	
Manufacture of fabricated metal products, except machinery and equipment	Travel agency, tour operator reservation service and related activities	
Manufacture of furniture	Security and investigation activities	
Repair and installation of machinery and equipment	Services to buildings and landscape activities	
Manufacture of coke and refined petroleum products	Office administrative, office support and other business support activities	
Water collection, treatment and supply	Wholesale and retail trade and repair of motor vehicles and motorcycles	
Sewerage	Education	
Waste collection, treatment and disposal activities; materials recovery	Human health activities	
Remediation activities and other waste management services	Residential care activities	
Construction of buildings	Social work activities without accommodation	
Public administration and defence; compulsory social security	Creative, arts and entertainment activities	
Land transport and transport via pipelines	Libraries, archives, museums and other cultural activities	
Water transport	Gambling and betting activities	
Air transport	Sports activities and amusement and recreation activities	
Warehousing and support activities for transportation	Activities of membership organisations	
Postal and courier activities	Repair of computers and personal and household goods	
Accommodation	Other personal service activities	

Source: The authors own analysis based on OECD and The State Statistical Committee of the Republic of Azerbaijan data

Table 37. Goal 1 - economic sectorial view in comparison with optimal maximum output, the second group

Production is under optimum value
Other mining and quarrying
Other mining and quarrying
Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials
Manufacture of paper and paper products
Manufacture of basic pharmaceutical products and pharmaceutical preparations
Manufacture of rubber and plastic products
Manufacture of computer, electronic and optical products
Manufacture of electrical equipment
Manufacture of machinery and equipment n.e.c.
Manufacture of motor vehicles, trailers and semi-trailers
Manufacture of other transport equipment
Other manufacturing
Architectural and engineering activities; technical testing and analysis
Scientific research and development
Other professional, scientific and technical activities

Source: The authors own analysis based on OECD and The State Statistical Committee of the Republic of Azerbaijan data

In the second goal, the author has calculated employment multiplier (via dividing optimal maximum output to the given compensation of employees) per 80 sectors. As the result of this cluster, the author groups the sectors in three directions. In total Azerbaijan economy has the capacity to increase the number of workplace more than 2 million.

The first group: employment is over optimum value-34 sectors are in this group (+174 thousands of workforce units). The first clusters shows that, just only in 6 areas of 34 sectors (manufacture of leather and related products; tobacco products; beverages; food products; fishing and aquaculture; crop and animal production, hunting and related service activities) has over employment with more than 100 thousands workplaces.

The second group: employment is under optimum value-33 sectors are in this group (-93 thousands of workforce units are needed). The major areas are warehousing and support activities for transportation; media services; manufacture of fabricated metal products; manufacture of basic metals; repair and installation of machinery and equipment.

The third group: employment is far under optimum value-13 sectors are in this group (2mln 356 thousands of workforce units are needed). Not surprisingly the major part of human recourses are needed in the manufacture of pharmaceutical products; products of wood and cork; plastic products; paper products; motor vehicles, trailers and semi-trailers; other transport equipment; machinery and equipment n.e.c.; computer, electronic and optical products; electrical equipment; other mining and quarrying. It is clear that, those sectors need more investment in all manners.

Table 38. Goal 2 - employment view per economic sectors in compare with optimal maximum output

Employment is far under optimum value	Employment is over optimum value	Employment is under optimum value
Employment is far under optimum value	Crop and animal production, hunting and related	Employment is under optimum value
Other mining and quarrying	service activities	Mining of metal ores
Mining support service activities	Forestry and logging	Printing and reproduction of recorded media
Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw		
and plaiting materials	Fishing and aquaculture	Manufacture of chemicals and chemical products
		·
Manufacture of paper and paper products Manufacture of basic pharmaceutical products and	Extraction of crude petroleum and natural gas	Manufacture of other non-metallic mineral products
pharmaceutical preparations	Manufacture of food products	Manufacture of basic metals
M 6 4 6 11 1 1 6 1 4	N C	Manufacture of fabricated metal products, except machinery and
Manufacture of rubber and plastic products Manufacture of computer, electronic and optical	Manufacture of beverages	equipment
products	Manufacture of tobacco products	Manufacture of furniture
Manufacture of electrical equipment	Manufacture of textiles	Repair and installation of machinery and equipment
Manufacture of machinery and equipment n.e.c.	Manufacture of wearing apparel	Sewerage
Manufacture of motor vehicles, trailers and semi- trailers	Manufacture of leather and related products	Waste collection, treatment and disposal activities; materials recovery
Manufacture of other transport equipment	Food and beverage service activities	Remediation activities and other waste management services
Manufacture of other transport equipment	Manufacture of coke and refined petroleum	Remediation activities and other waste management services
Other manufacturing	products	Land transport and transport via pipelines
Other professional, scientific and technical activities	Water collection, treatment and supply	Warehousing and support activities for transportation
	Construction of buildings	Postal and courier activities
	Public administration and defense; compulsory	1 ostal and course activities
	social security	Publishing activities
	Water transport	Motion picture, video and television program production, sound recording and music publishing activities
	Air transport	Computer programming, consultancy and related activities
	Accommodation	Information service activities
	Electricity, gas, steam and air conditioning	
	supply	Financial service activities, except insurance and pension funding Insurance, reinsurance and pension funding, except compulsory social
	Programming and broadcasting activities	security
	Telecommunications	Activities auxiliary to financial services and insurance activities
	Legal and accounting activities	Real estate activities
	Travel agency, tour operator reservation service and related activities	Activities of head offices; management consultancy activities
	Security and investigation activities	Architectural and engineering activities; technical testing and analysis
	Wholesale and retail trade and repair of motor vehicles and motorcycles	Scientific research and development
	Education	Advertising and market research
	Human health activities	Veterinary activities
	Residential care activities	Rental and leasing activities
	Social work activities without accommodation	Employment activities
	Libraries, archives, museums and other cultural activities	Services to buildings and landscape activities
	Gambling and betting activities	Office administrative, office support and other business support activities
	Sports activities and amusement and recreation activities	Creative, arts and entertainment activities
	Repair of computers and personal and household goods	Activities of membership organizations
		1 0
	Other personal service activities	

Source: The authors own analysis based on OECD and The State Statistical Committee of the Republic of Azerbaijan data

In the third goal, the author has calculated the share of the given trade balance as the part of the solved optimum output level. In comparison with the first and second goals, the third goal is connected with them as well. Only 7 sectors have the capacity to increase the export level due to the over optimum production value with the positive share in the trade balance. The major two sectors are the resource sector: extraction of crude petroleum, natural gas and food and beverage

service activities. The major sectors (more than 20, mainly manufacture sectors) imports in crucial percentage of products due to poor development of manufacture sector in Azerbaijan.

4.4. Results of Optimization – By Economic Sectors

The relative approach to the sectorial structure of the Azerbaijan economy shows us interesting results (Appendix V):

The sector of crop and animal production, hunting and related service activities produces 4 times more output and employs 90% more workers than optimum level. So, it means, as the main driver of the agriculture sector in Azerbaijan, the sector of crop and animal production, hunting and related activities needs to concentrate on the efficient production via applying innovative technologies in order to motivate additional labor force to move to the sectors and to ensure the sustainable output level respectively. The trade balance is -2% of the total output per the sector of crop and animal production, hunting and related service activities and that supports our result on over production.

The sector of forestry and logging produces 8 times more output and employs 18% more workers than optimum level. So, it means, as one of the main driver of the agriculture sector in Azerbaijan, the sector of forestry and logging needs to take care of the protection of the environment. The trade balance is 0% of the total output per the sector of forestry and logging and that supports our result on over production.

The sector of fishing and aquaculture produces 27 times more output and employs 10 times more workers than optimum level. So, it means, as the main driver of the agriculture sector in Azerbaijan, the sector of fishing and aquaculture needs to concentrate on the efficient production via applying innovative technologies in order to motivate additional labor force to move to the sectors and to ensure the sustainable output level respectively. The trade balance is 0% of the total output per the sector of fishing and aquaculture and that supports our result on over production.

The sector of extraction of crude petroleum and natural gas produces 22 times more output and employs 14% more workers than optimum level. It is clear that, Azerbaijan has the resource dependent economy with huge number of energy resource, which is why there is high level over production. However, in such high level production, the labor force is relatively low. The possible reasons for that might be the application of the advance technologies and existence of the pipeline transportation. The trade balance is 95% of the total output per the sector of extraction of crude petroleum and natural gas and that supports our result on over production and existence of the resource dependency.

The sector of mining of metal ores produces 56% more output and employs 36% less workers than optimum level. So, it means, as the main driver of the mining and construction sectors in Azerbaijan, the sector of mining of metal ores concentrates on the efficient production via applying innovative technologies via attracting additional labor force. The trade balance is 1% of the total output per the sector of mining of metal ores and that supports our result on over production.

The sector of other mining and quarrying produces 13% less output and employs 42% less workers than optimum level. So, it means, as the main driver of the mining sector in Azerbaijan, the sector of other mining and quarrying needs to concentrate on the establishment of the local production facilities via applying innovative technologies in order to attract additional labor force and to ensure the sustainable output level respectively. The trade balance is -43% of the total current output per the sector of other mining and quarrying and that supports our result on under production and less efficiencies.

The sector of mining support service activities produces 8% more output and employs 42% less workers than optimum level. So, it means, as the main driver of the resource sector in Azerbaijan, the sector of mining support service activities needs to attract more labor force. The trade balance is -8% of the total output per the sector of mining support service activities and that show that the sector still imports the production means from abroad.

The sector of manufacture of food products produces 4.3 times more output and employs 3 times more workers than optimum level. The trade balance is -25% of the total current output per the sector of manufacture of food products produces and that means the manufacture of food still depends on the import. The sector of manufacture of beverages produces 20 times more output and employs 12 times more workers than optimum level. The sector of manufacture of tobacco products produces 3.5 times more output and employs 2.7 times more workers than optimum level. However, the trade balance is -874% of the total current output per the sector of manufacture of tobacco products and that means the economy heavily depends on the import due to the huge internal demand. The sector of food and beverage service activities produces 22 times more output and employs 3.37 times more workers than optimum level.

The sector of manufacture of textiles produces 2.9 times more output and employs 40% more workers than optimum level. However, the trade balance is -8% of the total current output per the sector of manufacture of textiles and that means the production capacity still can meet the local demand totally. The sector of manufacture of wearing apparel produces 33% more output and employs 7% more workers than optimum level. Not surprisingly the trade balance is -65% of the total current output per the sector of manufacture of wearing apparel and that means the local wearing market depends on the import. The sector of manufacture of leather and related products produces 3.1 times more output and employs 2.1 times more workers than optimum level. The trade balance is -12% of the total output per the sector of manufacture of leather and related products.

The sector of manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials produces 76% less output and employs 83% less workers than optimum level. So, it means, either the sector of wood needs to concentrate on the efficient production via applying innovative technologies in order to motivate additional labor force to move to the sectors and to ensure the sustainable output level respectively, or expansion of this sector conflicts with the environment protection policies, or the available raw materials are not sufficient for the local economy. Not surprisingly, the trade balance is -1495% of the total current output (15 times) per the sector of wood and that supports our result on under production.

The sector of manufacture of paper and paper products produces 34% less output and employs 51% less workers than optimum level. The trade balance is -259% of the total current output per the sector of paper and paper products. The sector of printing and reproduction of recorded media produces 6% more output and employs 44% less workers than optimum level. The trade balance is -60% of the total output per the sector of printing and reproduction of recorded media and that supports our result on over production. The sector of manufacture of furniture produces 38% more output than optimum level and employs optimal level labor force. The trade balance is -132% of the total current output per the sector of manufacture of furniture and it can be considered quite efficient and balanced manufactural direction.

The sector of manufacture of chemicals and chemical products produces 78% more output and employs 8% less workers than optimum level. So, it means, as the main driver of the manufacture sector in Azerbaijan, the sector of manufacture of chemicals and chemical products needs to attract additional labor force in order to ensure the sustainable output level. The trade balance is -171% of the total current output per the sector of manufacture of chemicals and chemical products and that means regardless overproduction, still import has crucial impact to meet the local demand.

The sector of Manufacture of basic pharmaceutical products and pharmaceutical preparations produces 97% less output and employs 98% less workers than optimum level. So, it means, as the main driver of the health sector in Azerbaijan, the sector of pharmacy needs to concentrate on the efficient production via applying innovative technologies in order to attract additional labor force The trade balance is -90 times of the total output per the sector of pharmaceutical products and pharmaceutical preparations and that supports our result on under production, where the country needs to take immediate actions to reduce the dependency of the import.

The sector of manufacture of rubber and plastic products produces 41% less output and employs 60% less workers than optimum level. So, it means, as the main driver of the manufacture sector in Azerbaijan, the sector of manufacture of rubber and plastic products needs to utilize the raw materials from the oil-gas industry and attract more labor force in order to increase the total output. The trade balance is -209% of the total output per the sector of manufacture of rubber and plastic products and that supports our result on under production.

The sector of manufacture of other non-metallic mineral products produces 33% more output and employs 16% less workers than optimum level. The trade balance is -90% of the total current output per the sector of manufacture of other non-metallic mineral products and that shows the dependency on the import. The sector of manufacture of basic metals produces 17% more output and employs 39% less workers than optimum level. So, it means, as the main driver of the agriculture sector in Azerbaijan, the sector of manufacture of basic metals needs to concentrate on the efficient production via applying innovative technologies in order to attract additional labor force and to ensure the sustainable output level respectively. The trade balance is -208% of the total output per the sector of manufacture of basic metals and that means there is dependency on the import. The sector of manufacture of fabricated metal products, except machinery and equipment produces 27% more output and employs 36% less workers than optimum level. The

trade balance is -292% of the total output per the sector of manufacture of fabricated metal products and that there is huge dependency on the import as well.

The sector of manufacture of computer, electronic and optical products produces 53% less output and employs 74% less workers than optimum level. So, it means, as the main driver of the technological sector in Azerbaijan, the sector of manufacture of computer, electronic and optical products classified as the far under optimal level, that means there is need to concentrate on the innovations and the research development. The trade balance is -6 times of the total current output per the sector of manufacture of computer, electronic and optical products and that supports our results on under production. The sector of manufacture of electrical equipment produces 26% less output and employs 44% less workers than optimum level. The trade balance is -4 times of the total current output per the sector of manufacture of electrical equipment and that shows the huge dependency on the import.

The sector of manufacture of machinery and equipment n.e.c produces 59% less output and employs 72% less workers than optimum level. So, it means, as the main driver of the manufacture sector in Azerbaijan, the sector of manufacture of machinery needs to concentrate on the efficient production via applying innovative technologies in order to motivate additional labor force to move to the sectors and to ensure the sustainable output level respectively. The trade balance is 10 times of the total current output per the sector of manufacture of machinery and that supports our result on far under production level.

The sector of manufacture of motor vehicles, trailers and semi-trailers produces 98% less output and employs 99% less workers than optimum level. So, it means, as the main driver of the autocar industry in Azerbaijan, the sector of manufacture of motor vehicles, trailers and semi-trailers is far than optimal level and there is need immediate actions to establish the production facilities via applying innovative technologies. The trade balance is -154 time of the total current output per the sector of manufacture of motor vehicles, trailers and semi-trailers and that heavily supports our result on the under production. Similarly the sector of manufacture of other transport equipment produces 94% less output and employs 98% less workers than optimum level. The trade balance is -88 times of the total current output per the sector of manufacture of other transport equipment and that supports our result on the under production.

The sector of other manufacturing produces 92% less output and employs 96% less workers than optimum level. The trade balance is -16 times of the total current output per the sector of other manufacturing and that shows that the rest of the manufactural sections are heavily depends on the import.

The sector of manufacture of coke and refined petroleum products produces 2.44 times more output and employs 43% more workers than optimum level. The trade balance is 5% of the total current output per the sector of manufacture of coke and refined petroleum products and that supports our result on over production where the export is leading.

The sector of water collection, treatment and supply produces 2.3 times more output and employs 54% more workers than optimum level. So, it means, as the main driver of the agriculture sector in Azerbaijan, the sector of water collection, treatment and supply can meet the local demand. The sector of sewerage produces 31% more output and employs 28% less workers than optimum level. Similarly the sector of waste collection, treatment and disposal activities; materials recovery produces 2 times more output and employs 57% less workers than optimum level. The sector of remediation activities and other waste management services produces 4% more output and employs 52 % less workers than optimum level. So, generally it seems that, the protection level of environment by the Azerbaijan is satisfactory.

The sector of construction of buildings produces 4.4 times more output and employs 2.3 times more workers than optimum level. So, it means, as the main driver of the construction sector in Azerbaijan, the sector of construction of buildings provides more activities than optimal level. The sector of public administration and defense; compulsory social security produces 113 times more output and employs 49 times more workers than optimum level. So, it means, as the main driver of the public sector in Azerbaijan, the sector of public administration and defense; compulsory social security needs to concentrate on the efficient governance via applying reforms and redundancies.

The sector of land transport and transport via pipelines produces 2.13 times more output and employs 65% less workers than optimum level. On the other hand, the sector of water transport produces 2.46 times more output and employs 1.86 times more workers than optimum level. Based on the results of the land and water transportation, the total output seems over optimal level which may positive impact over the trade. The sector of air transport produces 46 times more output and employs 21 times more workers than optimum level. The trade balance is -14% of the total current output per the sector of air transport and that supports our result on over production. Regardless over production, the results shows that, the import is still leading in the trade relations.

The sector of accommodation produces 3 times more output and employs 67% more workers than optimum level. So, it means, as the main driver of the tourism sector in Azerbaijan, the sector of accommodation has the potential to affect the Azerbaijan economy.

The sector of electricity, gas, steam and air conditioning supply produces 2.6 times more output and employs 9% more workers than optimum level. So, it means the local demand to basic utilizes can be provided in the Azerbaijan economy. The trade balance is 2% of the total output per the sector of electricity, gas, steam and air conditioning supply and that supports our result on the over production.

The sector of publishing activities produces 17% more output and employs 37% less workers than optimum level. So, it means, as the main driver of the education and media sectors in Azerbaijan, the sector of publishing activities needs to concentrate on the attraction of sustainable labor force in order to ensure the efficient output. Similarly the sector of motion picture, video and television program production, sound recording and music publishing activities produces just 6% more output and employs 55% less workers than optimum level. The sector of programming and

broadcasting activities produces 4.06 times more output and employs 7% more workers than optimum level. The sector of telecommunications produces 7.3 times more output and employs 2.2 times more workers than optimum level.

The sector of computer programming, consultancy and related activities produces 39% more output and employs 22% less workers than optimum level. Similarly the sector of information service activities produces 25% more output and employs 53% times less workers than optimum level. Regardless the over production, both sectors needs to ensure and motivate sustainable relevant skilled labor force.

The sector of financial service activities, except insurance and pension funding produces 17% more output and employs 69% less workers than optimum level. On the other hand, the sector of insurance, reinsurance and pension funding, except compulsory social security produces 48% times more output and employs 80% less workers than optimum level. The sector of activities auxiliary to financial services and insurance activities produces 36% more output and employs 50% less workers than optimum level. The limited development of the financial sector and lack of public trust can be one of the possible reasons to the low level employment.

The sector of architectural and engineering activities; technical testing and analysis produces 53% less output and employs 77% less workers than optimum level. This result shows the crucial issue in the construction sector in Azerbaijan due varied issues in the construction of the living houses. It means that, there are need immediate actions to be done by the governance to promote the business in this direction. Not surprisingly the trade balance is -180% of the total current output per the sector of architectural and engineering activities; technical testing and analysis and that supports our result on the under production.

The sector of scientific research and development produces 65% less output and employs 98% less workers than optimum level. Similarly the sector of other professional, scientific and technical activities produces 93% less output than optimum level and employs almost 0% workers of the optimal level. So, this result is the crucial SOS signal for the economy. As the main driver of the innovations in Azerbaijan, both of the sectors need to concentrate on the efficient production via applying innovative technologies, learning the trend in the world in order to motivate additional labor force to apply for jobs in the research oriented. The trade balance is -268% of the total output per the sector of scientific research and development and that supports our result on the under production.

4.5. Where is Azerbaijan between Norway and Nigeria?

In the data analysis section the author compares the main economic indicators of the selected countries. Although, per Azerbaijan, the data is the available from 1990s and there is missing information in some years per Nigeria from 1970s.

The fuel exports per Nigeria has been more than 80% (reaching to 100% in 2000) of the merchandise exports since the 1970s except per years where the information is missing. On the other hand, resource export has been over 40% by 2000, and more than 60% by 2014 respectively.

Similar to Nigeria, the oil-gas products have been dominant in the total merchandise export in Azerbaijan with more than 80% (Graph 61, A).

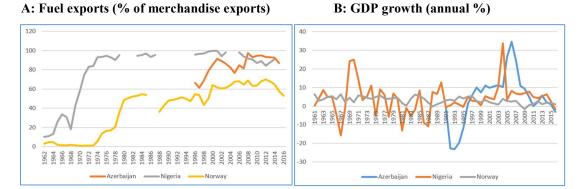
The GDP growth in Norway has been stable and mainly positive since 1960s. Conversely, economic growth in Nigeria and Azerbaijan has changes rapidly. Starting from mid of 2000s Azerbaijan has simulated the same tendency with the Nigerian economic performance (Graph 61, B).

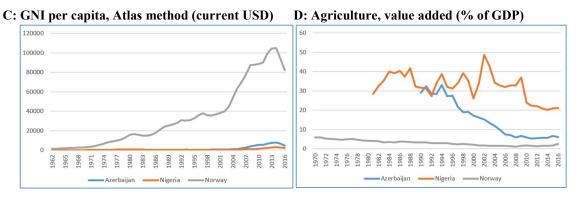
Not-surprisingly, GNP per capita of Norway is far from Nigeria and Azerbaijan However, Azerbaijan has slightly more number than Nigeria (Graph 61, C). Equally important, the share of agriculture in the economies has shown descending trend. At the same time, Azerbaijan is more close to Nigeria with the dramatic fall since 1990s (Graph 61, D).

In all countries, the industry has contributed the gross product with fluctuations in the different years. In spite of that, the industry in Norway has performed more stable position. Not only dramatic changes but also peak level of the participation of the industry in the Azerbaijan economy does not support that, Azerbaijan is industrialized country. Despite, this involvement is related to the dominant of oil-gas sector in the economy (Graph 61, E).

First thing to remember on the Norwegian economy is the wealth management. As an illustration, the Norway has able to keep the growing trend since the decades. Unlike Norway and Nigeria, Azerbaijan recently has utilized their reserves inefficiently regardless the getting the maximum level in their history (Graph 61, D).

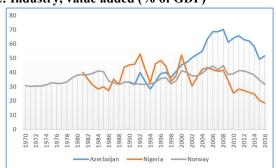
Graph 61. Norway, Nigeria, Azerbaijan in numbers

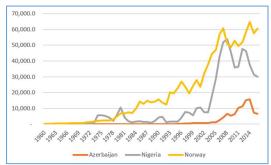




E: Industry, value added (% of GDP)

F: Total reserves (includes gold, current mln. USD)





Source: The World Bank, http://data.worldbank.org/indicator

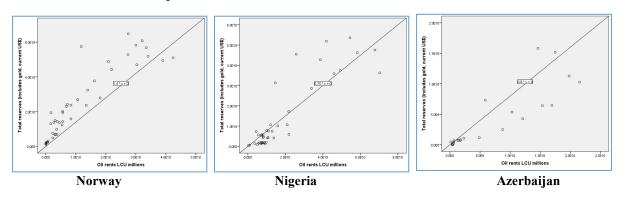
Not only data analysis, but also, the outcomes over the selected variables per the countries are significant and clearly summarized over tables and charts below. The results show that the oil rents and total reserves in the selected countries have positive perfect linear relationship within the mentioned periods. In particular, the association per Norway has been more stable and sustainable since the 1970s. Similarly, per Nigeria and Azerbaijan the relevant relationship is higher and strong (Table 39). These results have been clearly visualized via scatter plots in Graph 62, making sure the linear association. Nevertheless, the correlations between the selected public spending and the oil rents conclude the negative strong line (weak per environment protection) with a negative slope per Norway (Table 40, Graph 63). In contrast, there is evident positive-strong linear association between the selected public expenditures and the oil rents in Nigeria since 1977 (Table 41, Graph 64). Correspondingly, the relevant association between the selected expenditures and the oil rents in Azerbaijan has been large-strong and linear (Table 42, Graph 65).

Table 39. Correlation between oil rents and total reserves

Country	From	To	Pearson Correlation
Norway	1971	2015	0.91
Nigeria	1972	2015	0.89
Azerbaijan	1993	2015	0.87

Source: The author's own analysis based on data

Graph 62. Correlation between oil rents and total reserves



Source: The author's own analysis based on data

Table 40. Norway - correlation between oil rents and expenditures, 1995-2015

Name of Variable 2	Pearson Correlation
Expenditure on environment protection	(0.48)
Expenditure on public order amp; safety	(0.71)
Expenditure on economic affairs	(0.82)
Expenditure on defense	(0.83)
Expenditure on education	(0.90)

Source: The author's own analysis based on data

Table 41. Nigeria - correlation between oil rents and expenditures on:

From	To	Name of Variable 2	Pearson Correlation
1977	2007	Transport and Communication	0.77
1977	2007	Agriculture	0.66
1977	2012	Total capital expenditure	0.87
1977	2007	Defense	0.80
1977	2007	Health	0.94
1977	2007	Education	0.95
1977	2012	Total current expenditure	0.94

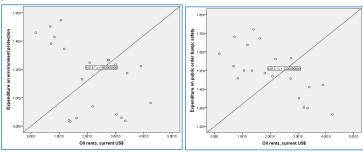
Source: The author's own analysis based on data

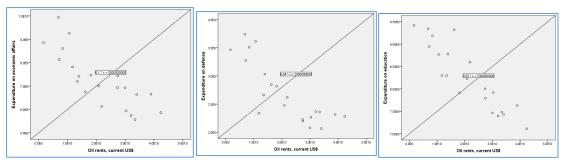
Table 42. Azerbaijan - correlation between oil rents and expenditure on (2000-2015):

Name of Variable 2	•
Name of variable 2	Pearson Correlation
Court authority, law enforcement agencies	0.74
Legislation, executive and governmental authorities	0.74
Culture, art, information, physical training and activities not included in	
other categories	0.74
Social protection and security	0.75
Health Care	0.76
Other expenditures	0.77
Education	0.80
Science	0.81
National economy	0.85

Source: The author's own analysis based on data

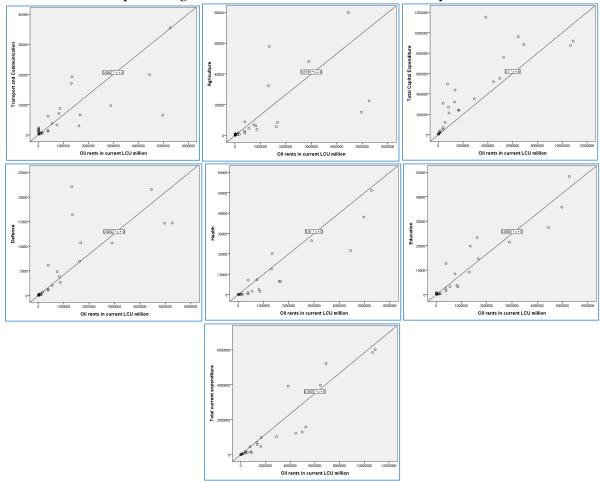
Graph 63. Norway -correlation between oil rents and total government expenditure 1995-2015



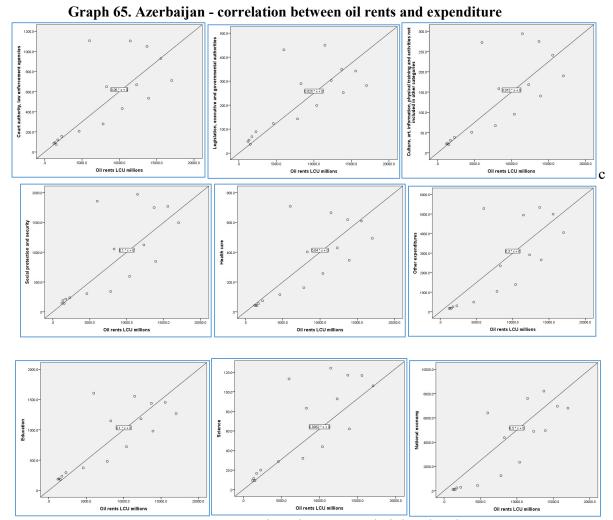


Source: The author's own analysis based on data

Graph 64. Nigeria correlation between oil rents and expenditures



Source: The author's own analysis based on data



Source: The author's own analysis based on data

4.6. Hypotheses Analysis

As the key expectations, validating hypothesizes help to observe and judge author's approach:

H1-The Azerbaijan economic structure has more common characteristics with the resource dependent economies. The author has calculated the coefficients of the inverse matrix for the Azerbaijan economy, grouped the sectors, and compared with the selected countries' standard range. So it means that, the major part of the sectors of the Azerbaijan economy have the similar relations with the entire economy as the resource dependent economies have. This finding supports the hypothesis.

H2-The oil-gas sector has weaker relation with the entire economy than the selected countries' average level. Based on the delivered comparison, the author realized that in the Azerbaijan economy the resource sector could not manage to ensure close relationship with the rest of the sectors. That means the economy of Azerbaijan cannot utilize the energy resources and

letting the raw products go for export not for local production. This finding supports the hypothesis.

H3-The Azerbaijan economic sector in general, consumes smaller output from each other, and requires smaller inputs in order to produce total output. Based on the delivered comparison, the author noted that, in generally the Azerbaijan economy consumes less input than the selected resource dependent economies. This finding supports the hypothesis.

H4-The Azerbaijan economy heavily depends on the import in matter of the non-oil sector related inputs. The official input-output table for the Azerbaijan economy, and the comparison between the optimum production level and trade balance shows that the dependency from the non-oil inputs are higher. This finding supports the hypothesis.

H5-The manufacturing sector is far from the optimal level which is needed by the local economy. The results of the optimizations prove that the Azerbaijan economy needs more investment to reconstruct the all kind of manufacturing sectors. This finding supports the hypothesis.

H6-If we dive into the statistics, data analysis of the economic experiences by Norway and Nigeria, we will realize that, the Azerbaijan economy has more common feature with Nigeria in comparison with Norway. The research results clear identifies that, the governances in both Nigeria and Azerbaijan have taken similar actions and pumped the oil rents directly to the public spending. Not only the numbers and data analysis, but the literature review for Nigeria and Azerbaijan confirms the hypothesis positively. This finding supports the hypothesis.

4.7. New Results

This research: input-output approach is one of the few works done in this direction. The most of the researches were based on the local approach, the changes in the economy. However, finding the optimum output level, organizing parallels with the similar resource dependent economies help us to understand how is the Azerbaijan economy developed, what are the common challenges that experienced by other countries, where there are the opportunities to grow, what are the risks.

Notably, in all of the selected countries the oil rents are strongly associated which means resource money has been as the main driver in the cumulating the reserves. To emphasize, this is the key feature to put these countries in one group. However, another key results, the potential relationships between the oil rents and public spending have shown completely different view. So, this association has been negative in Norway in the last decade based on the selected spending directions where the correlations are significant. Indeed, it is not sufficient judge whole fiscal policy in Norway from inspiring these results. On the other hand, it provides crucial insights how the increasing resource money has been far from the current spending in Norway.

Comparatively, based on the results per Nigeria and Azerbaijan, these economies have passed common economic milestones. In the first place, the oil rents have been directly infected to the total public spending in the both countries. Not only data, but also literature on the Nigerian and Azerbaijan economies supports this study and results. Unlikely the research by Ismayilov and Aliyev (2010), the author determines that, Azerbaijan has been tend to the Nigerian experience.

This research particularly raises the issues in the manufacturing sector in Azerbaijan and the resource dependent economies. Obviously as the key driver of the economy, the poor level local production and the dependence from the import makes the Azerbaijan economy limited and limits its ranges. The author finding in the employment in the Azerbaijan economy rejects the official statements by the governance. The study shows that there is need and capacity to open more than two millions workplaces in the economy. This indicators conflict with all public official announcements that there have been ensured additional workplaces in the number of millions in Azerbaijan.

The final results of the optimizations indicates that there is need to create more than 2 million workplaces, which means indirectly, there is serious employment in Azerbaijan.

The following findings clearly demonstrates the current economic characteristics by sectorial split in comparison with the selected countries:

The agriculture sector mainly sales the inputs to others where there is same kind of agricultural activities. In other word, the Azerbaijan economy consumes less agricultural inputs than the selected countries due to weak inter-sectorial relations in the economy.

The input from mining and chemical products has less sales to the agriculture sector in Azerbaijan. All in all, in the Azerbaijan economy the agriculture sector consumes less inputs than the selected countries, as the result it can cause less efficient and less diversified production.

The mining and quarrying of non-energy producing products sector mainly sales the inputs to itself and to the infrastructural sectors as metal pipes, cables and others. Another interesting point is that, the weak development the production of the transportation means can be showed the reason for the low input to this direction.

The sector of mining support service activities mainly sales the inputs to the mining related sectors. In other word, the Azerbaijan economy consumes less inputs of mining support service activities than the selected countries due to weak inter-sectorial relations in the economy.

The sector of mining support service activities mainly purchases means of transportation, equipment and construction materials as the inputs from others. This is related with the leading onshore and offshore oil-gas production activities.

The key point is that in the Azerbaijan economy the cash is the main driver in the daily payments. It is clear that the sector of paper products and printing has crucial roles in the financial and insurance activities in Azerbaijan.

The Azerbaijan economy has the risk to cause plastic pollution to the environment.

It is clear that, the sector of manufacture of basic metals mainly sales the inputs to infrastructural sectors where it's input are key tool for them. Apart from that, the sector of the financial services gets more input from the sector of manufacture of basic metals due to the higher cash turnover in Azerbaijan.

The Azerbaijan economy receives more inputs of computer, electronic and optical products than the selected countries' average, which means the digitalization in the governance is in good progress.

The Azerbaijan economy receives more inputs of electrical equipment than the selected countries' average which means the usage scale of the electronics is wider. The sector of electrical equipment needs to be developed more efficiently.

The sector of mining and extraction of energy producing products consumes less utilities, which can be considered the efficient from production point of view. However, in the lower waste collection means the higher threat to the environment in Azerbaijan.

The main part of the construction inputs are directed to the infrastructural sectors, public administration which are the public expenditure items in the public spending. Not surprisingly, the mining support service activities absorb on of the higher input from the construction sector due to the leading oil-gas productions.

In the Azerbaijan economy:

- the sector of wholesale, retail trade, repair of motor vehicles has weaker sales relations with the rest of the economic sectors in comparison with the selected countries due lack of production facilities.
- the sector of transportation and storage has weaker sales relations with the rest of the economic sectors in comparison with the selected countries. It is clear that, the sector of transportation and storage mainly sales the inputs agricultural and food related activities. Additionally, the sector of transportation and storage has less participation in the mining and extraction of energy producing activities.
- the sector of accommodation and food services has weaker sales relations with the rest of the economic sectors in comparison with the selected countries. Interestingly, the oil-gas sector and education gets less the accommodation facilities services which is the crucial issue for the sustainable wellbeing of the workers and ensuring the qualitative education to the young people.
- the sector of publishing, audio-visual and broadcasting activities has so weak sales relations with the rest of the economic sectors in comparison with the selected countries. Not surprisingly, this support the current development level of the movie and publishing industries in Azerbaijan.
- the sector of telecommunications has weaker sales relations with the rest of the economic sectors in comparison with the selected countries, which means there is huge need to apply innovations in Azerbaijan.
- the sector of IT and other information services has weaker sales relations with the rest of the economic sectors in comparison with the selected countries. This result shows that, the oil-gas sector needs more investment from technological perspectives in order to improve efficiencies.
- the sector of financial and insurance activities has so weaker sales relations with the rest of the economic sectors in comparison with the selected countries, particularly, the insurance.
- the sector of other business services has weaker sales relations with the rest of the economic sectors in comparison with the selected countries which is the key obstacle for the development of the economy and business in Azerbaijan.

- the sector of education has weaker sales relations with the rest of the economic sectors in comparison with the selected countries. It is clear that, the education sector mainly sales the inputs to the public sector.
- the sector of human health and social work has weaker sales relations with the rest of the economic sectors in comparison with the selected countries.
- the sector of arts, entertainment, recreation and other service activities has weaker sales relations with the rest of the economic sectors in comparison with the selected countries.
- the sector of machinery and equipment has stronger sales relations with the rest of the economic sectors in comparison with the selected countries. Interestingly, the mining support service activities and public defence are in the list of sectors which get major of the machinery and equipment sector's sales as the inputs. The main reason for those, can be the existence of the resource dependence and the military needs.

5. CONCLUSIONS AND SUGGESTIONS

5.1. Suggestions for the Decision Makers and Future Studies

The author has had attempt to investigate the recent decades' economic experience of Azerbaijan particularly after the boom in the oil-gas sector. Obviously, without complex research approach it would be difficult to understand the key challenges for the economy. This complex approach has started from deep literature dive via understanding scholars' works for Azerbaijan and other resource dependent economies and ended with constructing optimization model. Apart from that, the author highlights the key actions by the governance in Azerbaijan and their outcomes.

All mentioned factors and the economic situation in 2016 persuaded the government to accept the reform package that called Road Map. Definitely, the efficiency and implementation of the Road Map is another discussion's topic. The author would like to walk through some points over the document. The feedback is that, the document has more generalist approach in case of the development areas. Particularly the reasoning part of the document has to be highlighted. The document can be considered one of the key acknowledgment by the government in the last decades. In the document only external factors had been mentioned, which seems limited approach to the key issues. Interestingly, in the short-run showing the eastern European countries as target-model countries via making parallels and learning their experience for the Azerbaijan economy seems controversial. Because in the past the Azerbaijan economy only were compared with the leading economies in the world due to the higher GDP growth rate. The current economic situation persuaded the government to be more realistic.

Another key point: learning and implementing the Norwegian experience in the Azerbaijan economy. Particularly in the applying the limitations on the transfers from the oil rents to the fiscal policies. Recent years shows that, even in case of the wishes to apply this kind of implementations, it is so hard to realize these steps due to the nature of the mono-economy or resource dependent economy of Azerbaijan. On the other hand the required financial resources are not specified clearly. It seems that there is still high intention to utilize the public revenue on these reforms initiates which can cause imbalance in the entire economy and lack of the development of the rest sectors in Azerbaijan.

The author opens the crucial door to the future research directions for the Azerbaijan economy and resource dependent economies. There is a big hope that, the scholars who have the common research interests will benefit from these research results. On the other hand this study might be guidance in order to prevent any recurring inefficient decisions by the relevant governance members. And last but not least the author will cover the current economic challenges via applying and testing the new econometric models.

6. SUMMARY

In summary, the author has focused on the learning the resource dependent economies, the Azerbaijan economy, and making parallels between them. Generally, after the long research, the author believes that the Azerbaijan economy has not gotten the unique experience in comparison with the similar countries. However, without doubt there are many factors which require the further research. Definitely those factors have the connections out of the economic terms, such as good governance issues. Regardless the mentioned limitations, and issues, the author claims that, this work can be considered one of the limited research's on the Azerbaijan economy.

In brief, the author has summed upped the following ideas via testing the hypothesis:

- the major part of the sectors of the Azerbaijan economy have the similar relations with the entire economy as the resource dependent economies;
- the economy of Azerbaijan cannot utilize the energy resources and letting the raw products go for export not for local production;
- the Azerbaijan economy consumes less input than the selected resource dependent economies;
- for the Azerbaijan economy the dependency from the non-oil inputs are higher
- the Azerbaijan economy needs more investment to reconstruct the all kind of manufacturing sectors

The research results clear identifies that, the governances in both Nigeria and Azerbaijan have taken similar actions and pumped the oil rents directly to the public spending. Not only the numbers and data analysis, but the literature review for Nigeria and Azerbaijan confirms the hypothesis positively.

This research has shown that where Azerbaijan is in the comparison with the selected countries via investigating the relevant literature and data. All literature reviews, data analysis are considered, the institutions, good governance, transparency play the main role in the economies in order to ensure the sustainable management of the oil rents.

The author has deep confidence over the understanding the Azerbaijan economy which is visible from the results of research. In the last five years, the author has spent crucial amount of time in

order to realize the root cause of the economics issues in the Azerbaijan economy. Particularly, the input-output approach helped to find out the level of the interconnections between sectors of the economy. Another approach, finding out the position of the Azerbaijan economy via making parallels with the selected countries, helped to diagnose the economic structure and the circumstances in Azerbaijan. The author is sure that, this research has to be considered as the key recommendation package in terms of the implementing economic reforms in Azerbaijan.

LIST OF PUBLICATIONS AND CONFERENCE PROCEEDINGS

Huseynov N., 2015. The Impact of Public Expenditure on Economic Growth, Case of the Azerbaijan Republic, "Science connecting nations" 2nd VUA YOUTH scientific session, 25 November 2015, Szent István University, Gödöllő, Hungary, Faculty of Economics and Social Sciences

Huseynov N., 2016. a. The Impacts of Oil Price Volatility on Azerbaijan Economy Public Policy Implications, Scientia Iuventa 2016, 21. Apríl 2016 Banská Bystrica

Huseynov N., 2016. b. Approach to Azerbaijan Economic Structure: Non-Oil Sector, North International Conference on Economics NICE 2016, September 23 – 24, 2016, Baia Mare, Romania, http://econ.cunbm.utcluj.ro/nice2016/

Huseynov N., 2017. a. The Labour Market and Socio-Economic Conditions in The Resource Dependent Economy: Azerbaijan, International Conference, 24-25 February 2017, Prague, Czech Republic,

https://scholar.google.hu/scholar?hl=en&q=nijat+huseynov&as_sdt=1%2C5&as_sdtp=&oq=nijat+h

Huseynov N., 2017. b. The Development of The Manufacturing Industry or Mining Industry?-The Case Of Azerbaijan, International Conference, Prague Conference on Political Economy, 17-18 March 2017, Prague, Czech Republic

Huseynov N., 2017. c. The Role of the Oil Transfers in The Fiscal Policy: The Case Of Azerbaijan, Press Academia, Istanbul, http://pressacademia.org/archives/pap/v4/50.pdf

Huseynov N., 2017. d. The Classification of Public Expenditure in Post-Soviet Union States and OECD Member Countries, Public Finance Quarterly, Volume 62, 2017, 3. Issue, Budapest, Hungary,

 $https://www.penzugyiszemle.hu/pfq/upload/pdf/penzugyi_szemle_angol/volume_62_2017_3/huseynov_2017_3a.pdf$

Huseynov N., 2018. The Impact of the Falling Oil Prices on the Banking Sector and the Banking Crisis in Azerbaijan, Eurasian Journal of Social Sciences, Eurasian Publications, vol. 6(1), pages 17-28

http://eurasianpublications.com/Eurasian-Journal-of-Social-Sciences/Vol.-6-No.1-2018/EJSS-3.pdf

Huseynov N., 2019. The Azerbaijan Economy by 2025: Crude Oil Production and Prices in The World, *Social and Economic Revue*, 2, 2019, pages 33-48. https://fsev.tnuni.sk/revue/papers/231.pdf

REFERENCES

Adamu, I.M., 2017. Oil revenues, External debt, and Growth in Nigeria, *Preprints*, 2017120028 (doi: 10.20944/preprints201712.0028.v1).

Akacem, M. and Cachanosky, N., 2015. The Myth of the Resource Curse: A Case Study for Algeria, address given at the Seventh Annual ASMEA Conference, Washington, 2015

Akpan, E.O., 2009. March. Oil price shocks and Nigeria's macro economy. In *A Paper Presented at the Annual Conference of CSAE Conference, Economic Development in Africa, March* (pp. 22-24).

Al-mulali, U. and Che Sab, N. 2010. Oil Shocks and Kuwait's Dinar Exchange Rate: The Dutch Disease Effect, Universiti Sains Malaysia, School of Social Sciences, October 2010.

Al-Mutawa, A., 1996. The Dutch disease, learning by doing and public policy: evidence from the United Arab Emirates, *Journal of Economic Development*, 21(1):.225-256

Ali, I. and Harvie, C., 2012. Oil Shocks and Macroeconomic Adjustment: a DSGE Modeling approach for the Case of Libya 1970–2007, *International Economic Studies*, 39(2): 17 - 34

Ali, I. and Harvie, C., 2013. Oil and economic development: Libya in the post-Gaddafi era, *Economic Modelling*, 32: 273-285

Aliyu, S.U.R., 2009. Impact of oil price shock and exchange rate volatility on economic growth in Nigeria: An empirical investigation. *Munich Personal RePEc Archive Paper*, No. 16319

Algieri, B., 2011. The Dutch disease: evidences from Russia. *Economic Change and Restructuring*, 44(3): 243-277.

Apere, T.O., 2017. Impact of Crude Oil On Nigeria's Fiscal Policy Formulation. *European Journal of Research in Social Sciences Vol*, 5(3).

Aregbeyen, O. and Fasanya, I.O., 2017. Oil Price Volatility And Fiscal Behaviour Of Government In Nigeria. *Asian Journal of Economic Modelling*, 5(2), pp.118-134.

Auty, R.M., 1986. Resource-based industrialization and country size: Venezuela and Trinidad and Tobago, *Geoforum*, 17(3): 325-338

Auty, R.M., 1988. Internal constraints on prudent oil windfall deployment for Resource-based industrialisation: Nigeria and Cameroon, *Geoforum*, 19(2):147-160

Auty, R.M., 2001. Transition reform in the mineral-rich Caspian region countries. *Resources Policy*, 27(1), pp.25-32.

Auty, R.M., 2004: Third time lucky for Algeria? Integrating an industrializing oil-rich country into the global economy, *Resources Policy*, 29(1): 37-47

Behzadan, N., Chisik, R., Onder, H. and Battaile, B., 2017. Does inequality drive the Dutch disease? Theory and evidence. *Journal of International Economics*, 106, pp.104-118.

Benjamin, N.C., Devarajan, S. and Weiner, R.J., 1989: The 'Dutch' disease in a developing Country: Oil reserves in Cameroon, *Journal of Development Economics*, 30(1): 71-92

Brahmbhatt, M., Canuto, O. and Vostroknutova, E., 2010: Dealing with Dutch Disease, *World Bank-Economic Premise*, (16):1-7

Bresser-Pereira, L.C., 2017. How to Neutralize The Dutch Disease Notwithstanding The Natural Resources Curse, Sao Paulo School of Economics, Working Paper, 452

Cerra, M.V. 2016. Inflation and the Black Market Exchange Rate in a Repressed Market: A Model of Venezuela, International Monetary Fund, Working Paper, No. WP/16/159, August 2016.

Chekouri, S.M., Chibi, A. and Benbouziane, M., 2013. Natural resource abundance and Structural Change: The Dutch disease in Algeria, in: 19th Annual Conference Economic Development under the Rise of Islamist Parties, Economic Research Forum, Kuwait, March, 2013.

Chekouri, S.M. and Chibi, A. 2016, Algeria and the Natural Resource Curse: Oil Abundance and Economic Growth, Economic Research Forum, Working Paper, No. 990, April 2016.

Collier, P., 2006. Angola: Options for prosperity, Report, Department of Economics, University of Oxford, May, 2006.

Corden, W. M. and Neary, J. P, 1982. Booming Sector and De-industrialisation in a Small Open Economy, *The Economic Journal*, 92(368): 825-848

Corden, W.M., 1984. Booming sector and Dutch disease economics: survey and Consolidation, Oxford Economic Papers, 36(3): 359-380

Cori, A. and Monni, S. 2014, The Resource Curse Hypothesis: Evidence from Ecuador, Sustainability Environmental Economics and Dynamics Studies, Working Paper, No. 28/2014, October 2014.

Dauda, R.S., 2017. Poverty and economic growth in Nigeria: Issues and policies. *Journal of Poverty*, 21(1), pp.61-79.

Dulger, F., Lopcu, K., Burgaç, A. and Ballı, E., 2013: Is Russia suffering from Dutch Disease? Cointegration with structural break, *Resources Policy*, 38(4):605-612

Edwards, S. and Aoki, M., 1983: Oil export boom and Dutch-disease: A dynamic analysis, *Resources and Energy*, 5(3), 219-242

Elhiraika, A.B. and Hamed, A.H., 2002: Explaining growth in an oil-dependent economy: The case of the United Arab Emirates, in: *Workshop on Global Research Project "Explaining Growth"*, Rio de Janeiro, Brazil, December 13-14, 2001, 1-35.

Eurostat, 2008. Eurostat Manual of Supply, Use and Input-Output Tables. [pdf] Luxembourg: Office for Official

Egert, B., 2009. Dutch disease in former Soviet Union: Witch-hunting?. *Case Network Studies & Analysis*, 380.

Farzanegan, M.R. and Markwardt, G., 2009: The effects of oil price shocks on the Iranian Economy, *Energy Economics*, 31(1): 134-151

Ferreira, M.E., 2006: Angola: conflict and development, 1961-2002, *The Economics of Peace and Security Journal*, 1(1): 25-29

Foote, C., Block, W., Crane, K. and Gray, S., 2004: Economic policy and prospects in Iraq, *The Journal of Economic Perspectives*, 18(3):47-70

Gylfason, T., 2006. The Dutch Disease: Lessons from Norway. *Trinidad Tobago Chamber of Commerce and Industry, University of Iceland*.

Gurbanov, S., Nugent, J.B. and Mikayilov, C., 2017. Management of Oil Revenues: Has That of Azerbaijan Been Prudent?. *Economies*, 5(2), p.19.

Harberger, A.C., 1983. Dutch disease—how much sickness, how much boon?. Resources and Energy, 5(1), pp.1-20.

Hansen, J.C., 1983. Regional policy in an oil economy: the case of Norway. *Geoforum*, 14(4), pp.353-361.

Hasanov, F., 2010. The impact of real oil price on real effective exchange rate: The case of Azerbaijan. Discussion Papers. DIW.

Hasanov, F., 2013. Dutch disease and the Azerbaijan economy. *Communist and Post-Communist Studies*, 46(4), pp.463-480.

He, J., 2004. Optimization model in Input output analysis and computable general equilibrium by using multiple criteria non-linear programming,

https://www.iioa.org/conferences/intermediate-2004/pdf/436.pdf

Hidalgo, M., 2007, A Petro-State: Oil, Politics and Democracy in Venezuela, Real Instituto Elcano, Working Paper, No. 49/2007, November 2007.

Holden, S., 2013. Avoiding the resource curse the case Norway. *Energy policy*, 63, pp.870-876.

Holmøy, E. and Heide, K.M., 2005. Is Norway immune to Dutch Disease? CGE estimates of sustainable wage growth and de-industrialisation.

Huseynov, E., 2009. Does increase in oil prices caused overvaluation of national currency? The equilibrium real effective exchange rate and misalignment in Azerbaijan. PhD. Central European University.

Huseynov N., 2015. The Impact of Public Expenditure on Economic Growth, Case of the Azerbaijan Republic, "Science connecting nations" 2nd VUA YOUTH scientific session, 25 November 2015, Szent István University, Gödöllő, Hungary, Faculty of Economics and Social Sciences

Huseynov N., 2016. a. The Impacts of Oil Price Volatility on Azerbaijan Economy Public Policy Implications, Scientia Iuventa 2016, 21. Apríl 2016 Banská Bystrica

Huseynov N., 2016. b. Approach to Azerbaijan Economic Structure: Non-Oil Sector, North International Conference on Economics NICE 2016, September 23 – 24, 2016, Baia Mare, Romania, http://econ.cunbm.utcluj.ro/nice2016/

Huseynov N., 2017. a. The Labour Market and Socio-Economic Conditions in The Resource Dependent Economy: Azerbaijan, International Conference, 24-25 February 2017, Prague, Czech Republic,

https://scholar.google.hu/scholar?hl=en&q=nijat+huseynov&as_sdt=1%2C5&as_sdtp=&oq=nijat+h

Huseynov N., 2017. b. The Development of The Manufacturing Industry or Mining Industry?-The Case Of Azerbaijan, International Conference, Prague Conference on Political Economy, 17-18 March 2017, Prague, Czech Republic

Huseynov N., 2017. c. The Role of the Oil Transfers In The Fiscal Policy: The Case Of Azerbaijan, Press Academia, Istanbul, http://pressacademia.org/archives/pap/v4/50.pdf

Huseynov N., 2017. d. The Classification of Public Expenditure in Post-Soviet Union States and OECD Member Countries, Public Finance Quarterly, Volume 62, 2017, 3. Issue, Budapest, Hungary,

 $https://www.penzugyiszemle.hu/pfq/upload/pdf/penzugyi_szemle_angol/volume_62_2017_3/huseynov_2017_3a.pdf$

Huseynov N., 2018. The Impact of the Falling Oil Prices on the Banking Sector and the Banking Crisis in Azerbaijan, Eurasian Journal of Social Sciences, Eurasian Publications, vol. 6(1), pages 17-28

http://eurasianpublications.com/Eurasian-Journal-of-Social-Sciences/Vol.-6-No.1-2018/EJSS-3.pdf

Huseynov N., 2019. The Azerbaijan Economy by 2025: Crude Oil Production and Prices in The World, *Social and Economic Revue*, 2, 2019, pages 33-48. https://fsev.tnuni.sk/revue/papers/231.pdf

Hutchison, M.M., 1994. Manufacturing sector resiliency to energy booms: empirical evidence from Norway, the Netherlands, and the United Kingdom. *Oxford Economic Papers*, pp.311-329.

Ibadoglu, G., 2008. Current State of Azerbaijan's Economy: Myths and Realities. Transition Studies Review, 15(2), pp. 425-430.

Idemudia, U., 2012. The resource curse and the decentralization of oil revenue: the case of Nigeria. *Journal of Cleaner Production*, 35, pp.183-193.

Ike, G., Okodua, H. and Bagzibagli, K., 2016: Crude oil dependence, deindustrialization and economic growth in Nigeria, in *Proceedings of Economics and Finance Conferences*, International Institute of Social and Economic Sciences, 9 February 2016, pp. 113-124.

Ismayilov, A. and Aliyev, X., 2010. The successful model in the management of the oil rents: Norwegian Model. *Journal of Qafqaz University*, (29).

Iwayemi, A. and Fowowe, B., 2011. Impact of oil price shocks on selected macroeconomic variables in Nigeria. *Energy policy*, 39(2), pp.603-612.

Jones, R.W., Neary, J.P. and Ruane, F.P. 1986, International capital mobility and the Dutch disease, University of Rochester, Working Paper, No. 41, May 1986.

Kalyuzhnova, Y., 2011. The National Fund of the Republic of Kazakhstan (NFRK): From accumulation to stress-test to global future. *Energy policy*, 39(10), pp.6650-6657.

Kromtit, M.J., Kanadi, C., Ndangra, D.P. and Lado, S., 2017. Contribution of Non Oil Exports to Economic Growth in Nigeria (1985-2015). *International Journal of Economics and Finance*, 9(4), p.253.

Krugman, P., 1987. The narrow moving band, the Dutch disease, and the competitive Consequences of Mrs. Thatcher: Notes on trade in the presence of dynamic scale economies, *Journal of development Economics*, 27(1-2): 41-55

Kutan, A.M. and Wyzan, M.L., 2005. Explaining the real exchange rate in Kazakhstan, 1996–2003: Is Kazakhstan vulnerable to the Dutch disease?, *Economic Systems*, 29(2): 242-255

Kyle, S. 2002. The Political Economy of Long-run Growth in Angola: Everyone Wants Oil and Diamonds, But They Can Make Life Difficult, Department of Applied Economics and Management Cornell University, Working Paper, No. WP 2002-07, March 2007.

Kyle, S. (2005), Oil Revenue, The Real Exchange Rate and Sectoral Distortion in Angola, Department of Applied Economics and Management Cornell University, Working Paper, No. 2005-19, August 2005.

Kyle, S., 2007, Oil, Growth and Political Development in Angola. Department of Applied Economics and Management Cornell University, Working Paper, No. WP 2007-05, March 2007.

Larsen, E.R., 2004. Escaping the resource curse and the Dutch Disease? when and why Norway caught up with and forged ahead of its neighbors. Statistics Norway, Research Department, Discussion Papers, No. 377.

Larsen, E.R., 2005. Are rich countries immune to the resource curse? Evidence from Norway's management of its oil riches. *Resources Policy*, 30(2), pp.75-86.

Lewis, C., 2008. Linear Programming: Theory and Applications, https://www.whitman.edu/Documents/Academics/Mathematics/lewis.pdf

Looney, R.E., 1988. Oil revenues and viable development: impact of the Dutch disease on Saudi Arabian diversification efforts, *American Arab Affairs*, 27: 25-35

Looney, R.E., 1991. Diversification in a small oil exporting economy: The impact of the Dutch disease on Kuwait's industrialization, *Resources policy*, 17(1): 31-41

Looney, R.E., 1992. Real or illusory growth in an oil-based economy: Government Expenditures and private sector investment in Saudi Arabia, *World Development*, 20(9): 1367-1375

Looney, R.E., 1994. Government Planning in a Small Economy: Factors limiting the Industrial Diversification Efforts of Qatar, *Industry and Development*, 32: 1-17

Looney, R., 2004. Iraq's Future: Will Oil Be a Blessing or Curse?, *The Middle East Business and Economic Review*, 16(1): 15-29

Macedo, J.B., 1982 Currency diversification and export competitiveness: a model of the 'Dutch disease' in Egypt, *Journal of Development Economics*, 11(3): 287-306

Mahmudov, S., 2002. Practice and Application of Oil Funds: Azerbaijan and Kazakhstan as case studies in addressing the Dutch disease. Duquesne University.

Majd, M.G., 1991. The oil boom and structural transformation in the sugar industry of Iran, *Journal of Rural Studies*, 7(4): 397-409

Malekan, S. 2010. Currency Reform, Experiences of Other Countries, Exigencies for Iran, Economic Research and Policy Department Central Bank of the Islamic Republic of Iran, December 2010.

Mohammed, I. and Lenshie, N.E., 2017. Political Economy of Resource Curse and Dialectics of Crude Oil Dependency in Nigeria. *International Business and Management*, 14(3), pp.33-44.

Mohn, K., 2016. Resource revenue management and wealth neutrality in Norway. *Energy Policy*, 96, pp.446-457.

Ncube, M. and Balma, L., 2017. Oil Shocks, Public Investment and Macroeconomic and Fiscal Sustainability in Nigeria: Simulations using a DSGE Model. Quantum Global Research Lab, No. 2017/01.

Nouibat, A. 2016. Economic Transition in Algeria: A Review in Wake of the Recent Oil Crisis, in Proceedings of International Academic Conferences, *International Institute of Social and Economic Sciences*, Algeria, 6 September.

Odularu, G.O., 2008. Crude oil and the Nigerian economic performance. *Oil and Gas business*, pp.1-29.

Ogunleye, E.K., 2008. Natural resource abundance in Nigeria: From dependence to development. *Resources Policy*, 33(3), pp.168-174.

Olomola, P.A., 2006. Oil price shock and aggregate economic activity in Nigeria. *African Economic and Business Review*, 4(2), pp.40-45.

Olomola, P.A. and Adejumo, A.V., (2006): Oil price shock and macroeconomic activities in Nigeria, *International Research Journal of Finance and Economics*, 3(1): 28-34

Olusi, J.O. and Olagunju, M.A., 2005. The Primary Sectors of the economy and the Dutch disease in Nigeria. *The Pakistan Development Review*, pp.159-175.

Oshionebo, E., 2017. Mismanagement of Nigeria's oil revenues: is the Nigeria Sovereign Investment Authority the panacea?. *The Journal of World Energy Law & Business*, 10(4), pp.329-347.

Otaha, J.I., 2012. Dutch disease and Nigeria oil economy, African Research Review, 6(1), 82-90

Palazuelos, E. and Fernández, R., 2012. Kazakhstan: Oil endowment and oil empowerment. Communist and Post Communist Studies, 45(1), pp.27-37

Rodgers J. L., Nicewander W. A., 2012. Thirteen Ways to Look at the Correlation Coefficient https://amstat.tandfonline.com/doi/abs/10.1080/00031305.1988.10475524#.XLarQugzbIU

Soderling, L. 2002. Escaping the Curse of Oil? The Case of Gabon, IMF Working Paper African Department, Working Paper, No. WP/02/93, May 2002.

Standaert, S., 1989. Did Algeria experience repressed inflation in the 1970s?, *Economic Modelling*, 6(1): 94-104

Taiwo, M., Abayomi, T. and Damilare, O., 2012. Crude oil price, stock price and some selected macroeconomic indicators: Implications on the growth of Nigeria economy. *Research Journal of Finance and Accounting*, 3(2), pp.42-48.

Teulon, F. and Bonet Fernandez, D. 2014. Industrialization and Economic Policy in Algeria: a synthesis over half a century, IPAG Business School, Working Paper, No. 2014-287), 2014.

Torvik, R., 2001. Learning by doing and the Dutch disease, *European economic Review*, 45(2): 285-306

Umoru, D. and Onimawo, J.A., 2017. Growth and Oil Price Fluctuation in Nigeria: A Variance Decomposition Evidence. *International Journal of Social Sciences & Educational Studies*, Vol.4, No.1.

Usui, N., 1996. Policy adjustments to the oil boom and their evaluation: the Dutch disease in Indonesia, *World Development*, 24(5): 887-900

Usui, N., 1997. Dutch disease and policy adjustments to the oil boom: a comparative study of Indonesia and Mexico, *Resources policy*, 23(4): 151-162

Ville, S. and Wicken, O., 2012. The dynamics of resource-based economic development: evidence from Australia and Norway. *Industrial and Corporate Change*, 22(5), pp.1341-1371.

Weeks, J., 2008. Comparing Policies in Azerbaijan and Zambia. Development Viewpoint, (13).

Wunder, S. 2003. When the Dutch disease met the French connection: Oil, Macroeconomics and forests in Gabon, CIFOR, Bogor, Report.

Zafar, A. 2004. What Happens when a Country Does Not Adjust to Terms of Trade Shocks?: The Case of Oil-rich Gabon, World Bank, Africa Technical Families, Poverty Reduction and Economic Management, Working Paper, No. 3403, September 2004.

RESOURCES FROM THE INTERNET

Abu Dhabi Investment Authority,

http://www.adia.ae/En/About/About.aspx, [Accessed 01.11.2016]

Central Bank of Azerbaijan Republic.

http://en.cbar.az/releases/2016/01/18/information-ofthecentralbank/ 18.01.2016

http://en.cbar.az/releases/2016/01/25/informationofthe-central-bank/ 25.01.2016

 $\underline{http://en.cbar.az/releases/2016/01/26/information-of-thecentra-bank/}\ 26.01.2016$

http://en.cbar.az/releases/2016/01/27/information-of-tcentral-bank/ 27.01.2016

http://en.cbar.az/releases/2016/02/02/information-entral-bank/ 02.02.2016

http://www.cbar.az/assets/3604/Bulleten-2015_dekabr-Ictimaiyyet.pdf 03.02.2016

http://www.cbar.az/assets/3587/Bulleten-2016_oktyabr.pdf, [Accessed 01.12.2016]

http://en.cbar.az/releases/ [Accessed on 01 December 2016].

http://en.cbar.az/lpages/statistics/ [Accessed 01.12.2016]

http://www.cbar.az/assets/3572/Bulleten-2016 oktyabr.pdf [Accessed 01.12.2016]

http://www.cbar.az/assets/3579/Bulleten-2016_oktyabr.pdf [Accessed 01.12.2016]

http://www.cbar.az/assets/3586/Bulleten-2016 oktyabr.pdf [Accessed 01.12.2016]

http://www.cbar.az/pages/publications-researches/the-central-bank-and-economy-magazine/ [Accessed 01.12.2016]

http://en.cbar.az/pages/publications-researches/ [Accessed 01.12.2016]

Central Bank of Ecuador,

https://www.bce.fin.ec/en/index.php/economic-information, [Accessed 01.11.2016]

Central Bank of Kuwait,

http://www.cbk.gov.kw/en/monetary-policy/exchange-rate-policy.jsp, [Accessed 01.11.2016]

Central Bank of Libya,

https://cbl.gov.ly/en/exchange-rate-policy/, [Accessed 01.11.2016]

Central Bank of Nigeria,

https://www.cbn.gov.ng/documents/policyreview.asp, [Accessed 01.11.2016]

http://statistics.cbn.gov.ng/cbn-onlinestats/DataBrowser.aspx

http://statistics.cbn.gov.ng/cbn-onlinestats/QueryResultWizard.aspx

Huseynov N., 2017. Nijat meets Experts in Baku: The Economic Situation in Azerbaijan,

http://budapestalks.tv/The Economic Situation in Azerbaijan.html

https://www.youtube.com/watch?v=eyCbgoMHXV0

Kuwait Investment Authority,

http://www.kia.gov.kw/en/Pages/default.aspx, [Accessed 01.11.2016]

IMF, World Economic Outlook Database, 2015,

https://www.imf.org/external/pubs/ft/weo/2015/01/weodata/weoselser.aspx?c=912&t=1

Leontief, W., 1986. Input-output economics. [e-book] New York: Oxford University Press.

Available through: Google Books

https://books.google.hu/books?hl=en&lr=&id=hBDEXblq6HsC&oi=fnd&pg=PA3&dq=input+output+leontief&ots=9jXTIQbO3Q&sig=NSwPHvLgq4hPA1TjmuESJ3LqYEQ&redir_esc=y#v=onepage&q=input%20output%20leontief&f=false, [Accessed 01 January 2017].

118

Libyan Investment Agency,

http://www.lia.com.mt/en/investment-portfolio/, [Accessed 01.11.2016]

The Ministry of Economy of the Republic of Azerbaijan.

http://www.economy.gov.az/index.php?option=com_content&view=article&id=179&Itemid=150&lang=en01.06.2016

The Ministry of Economy of the Republic of Azerbaijan, 2014. The State Program on the Development of the Industry in the Republic of Azerbaijan in the years 2015-2020. [online] Available at:

 $\frac{http://senaye.gov.az/content/html/2281/attachments/State\%20Program\%20for\%20the\%20development\%20of\%20industry\%20in\%20Azerbaijan\%20in\%202015-2020.pdf$

[Accessed 23 December 2016].

The Ministry of Economy of the Republic of Azerbaijan, 2014. The State Program on the Development of the Industry in the Republic of Azerbaijan in the years 2015-2020. [online] Available at:

[Accessed 23 December 2016].

http://www.economy.gov.az/index.php?option=com_content&view=article&id=179&Itemid=150&lang=en 01.06.2016

The Ministry of Finance Azerbaijan Republic.

http://www.maliyye.gov.az/en/node/1880. 03.02.2016

http://www.maliyye.gov.az/node/1894 . 23.02.2016

http://www.maliyye.gov.az/sites/default/files/2017-qanun.pdf [Accessed 01.12.2016]

http://www.maliyye.gov.az/sites/default/files/BUDCE%20-%202016%20AN%20YENI.pdf [Accessed 01.12.2016] http://www.maliyye.gov.az/sites/default/files/2015-

ci%20il%20d%C3%B6vl%C9%99t%20b%C3%BCdc%C9%99si%20haqq%C4%B1nda%20Qanun.pdf [Accessed 01.12.2016]

http://www.maliyye.gov.az/sites/default/files/farman-2014-dovlat-budcasi-rasmi-sanadlar.pdf,[Accessed 01.12.2016]

 $\frac{http://www.maliyye.gov.az/sites/default/files/2013-Qanun-26\%20noyabr\%202012.pdf [Accessed 01.12.2016]}{http://www.maliyye.gov.az/sites/default/files/download/2012-Qanun.pdf}$

National Bank of Kazakhstan,

http://www.nationalbank.kz/cont/kfn/cont/publish521595 7238.pdf, [Accessed 01.11.2016]

National Development Fund of Islamic Republic of Iran,

http://en.ndfi.ir/HOME, [Accessed 01.11.2016]

Nigerian Sovereign Investment Authority,

http://nsia.com.ng/future-generations-fund/, [Accessed 01.11.2016]

The Observatory of Economic Complexity,

https://atlas.media.mit.edu/en/, [Accessed 01.12.2018]

OECD, 2016. Input-Output Tables,

http://www.OECD.org/trade/input-outputtables.htm [Accessed 01 January 2017].

OPEC.

http://www.opec.org/opec_web/en/about_us/25.htm [Accessed 01.11.2016]

http://www.opec.org/opec_web/static_files_project/media/downloads/publications/ASB2016.pdf

[Accessed 01.11.2016]

http://www.opec.org/opec_web/en/data_graphs/40.htm 01.06.2016

http://www.opec.org/opec_web/en/data_Figures/40.htm [Accessed on 08.12.2017].

The President Administration.

http://president.az/files/QANUN-2011.pdf [Accessed 01.12.2016]

Qatar Central Bank,

http://www.qcb.gov.qa/English/PolicyFrameWork/ExchangeRatePolicy/Pages/ExchangeRatePolicy.aspx, [Accessed 01.11.2016]

http://www.qcb.gov.qa/English/PolicyFrameWork/InvestmentPolicy/Pages/InvestmentPolicy.aspx, [Accessed 01.11.2016]

Qatar Investment Authority,

http://www.qia.qa/About/AboutUs.aspx, [Accessed 01.11.2016]

http://www.qia.qa/Investments/Investments.aspx, [Accessed 01.11.2016]

Saudi Arabian Monetary Agency,

http://www.sama.gov.sa/en-us/About/Pages/SAMAFunction.aspx, [Accessed 01.11.2016]

Sovereign Wealth Fund Institute,

http://www.swfinstitute.org/sovereign-wealth-fund-rankings/, [Accessed 01.11.2016]

Sousa, T., 2016. Energy Analysis: Input-Output. *Instituto Superior Tecnico*, https://fenix.tecnico.ulisboa.pt/downloadFile/848204501355053/Lecture%2005.pptx

The State Customs Committee of the Republic of Azerbaijan,

http://www.customs.gov.az/en/ 19.01.2016

The State Oil Company of Azerbaijan Republic (SOCAR).

 $\underline{http://socar.az/socar/en/economics-and-statistics/economics-and-statistics/oil-production}$

The State Oil Fund of the Republic of Azerbaijan (SOFAZ)

http://www.oilfund.az/uploads/2010-cu 14.pdf [Accessed 01.12.2016]

http://www.oilfund.az/uploads/qanun 2009-12.pdf [Accessed 01.12.2016]

http://www.oilfund.az/uploads/2008_-az-10.pdf [Accessed 01.12.2016]

http://www.oilfund.az/uploads/qanun 2007-8 AA.pdf [Accessed 01.12.2016]

http://www.oilfund.az/uploads/qanun 2006-6 az.pdf [Accessed 01.12.2016]

http://www.oilfund.az/en_US/hesabat-arxivi/rublukh/2016_1/2016_1_3/ [Accessed 01.12.2016]

The State Statistical Committee of the Republic of Azerbaijan,

http://www.stat.gov.az/source/system_nat_accounts/indexen.php 01.06.2016

http://www.stat.gov.az/source/balance_fuel/indexen.php 01.06.2016

http://www.stat.gov.az/source/agriculture/indexen.php 01.06.2016

http://www.stat.gov.az/source/industry/indexen.php 01.06.2016

http://www.stat.gov.az/source/trade/indexen.php 01.06.2016

http://www.stat.gov.az/source/tourism/index.php?mode=desktop 01.06.2016

http://stat.gov.az/news/?id=3123. 19.02.2016

http://www.stat.gov.az/source/trade/indexen.php 31.01.2016

http://www.stat.gov.az/source/finance/indexen.php [Accessed on 01 December 2017].

http://www.stat.gov.az/source/trade/indexen.php [Accessed on 01 December 2017].

http://www.stat.gov.az/source/system_nat_accounts/indexen.php [Accessed 23 December 2016].

http://www.stat.gov.az/macroeconomy/indexen.php [Accessed 23 December 2016].

http://www.stat.gov.az/source/industry/indexen.php[Accessed 23 December 2016].

http://www.stat.gov.az/source/finance/indexen.php [Accessed 01.12.2016]

http://www.stat.gov.az/menu/13/indexen.php, [Accessed 01.12.2016]

http://www.stat.gov.az/source/trade/indexen.php, [Accessed 01.12.2016]

http://www.stat.gov.az/macroeconomy/indexen.php, [Accessed 14.12.2016]

http://www.stat.gov.az/source/demography/indexen.php [Accessed 01.12.2016]

http://www.stat.gov.az/source/labour/indexen.php [Accessed 01.12.2016]

http://www.stat.gov.az/source/education/indexen.php [Accessed 01.12.2016]

http://www.stat.gov.az/source/healthcare/indexen.php [Accessed 01.12.2016]

http://www.stat.gov.az/source/finance/indexen.php [Accessed 01.12.2016]

http://www.stat.gov.az/source/price_tarif/indexen.php [Accessed 01.12.2016]

https://www.stat.gov.az/source/finance/?lang=en [Accessed 01.12.2016]

http://www.stat.gov.az/source/system_nat_accounts/indexen.php [Accessed 23 December 2016].

The World Bank

http://data.worldbank.org/indicator [Accessed 01.11.2016]

http://data.worldbank.org/indicator/PA.NUS.FCRF [Accessed: 05.05.2020]

http://data.worldbank.org/country/azerbaijan 01.06.2016

http://data.worldbank.org/indicator/NV.IND.MANF.ZS [Accessed 23 December 2016].

http://data.worldbank.org/indicator/NV.IND.MANF.KD.ZG [Accessed 23 December 2016].

http://data.worldbank.org/indicator/NV.IND.TOTL.ZS [Accessed 23 December 2016].

http://data.worldbank.org/indicator, [Accessed 01.12.2016]

https://data.worldbank.org/indicator/tx.val.fuel.zs.un [Accessed 01.12.2016]

ACKNOWLEDGMENTS

It is my pleasure and honor to note my thanks to my supervisor: Prof. Dr. Zoltán Lakner for the priceless support in my long PhD research journey. On the other hand, I highly appreciate and will remember forever the continues support by the great team members, mainly Prof. Dr. Farakasné Maria Fekete in the department of Management and Business Administration; Office of Doctoral and Habilitation Council mainly Mrs. Monika Torok-Hajdu, Szent Istvan University. In fact, the financial support by the Tempus Public Foundation for my research has made my research dreams real.

I am so thankful to all of the scholars who were involved in my research journey with their valuable comments and opinions.

I am so lucky and happy that, I have been given priceless support by my family members: my mother, who has been spending whole of her life for us without any rest; my elder three sisters; my elder brother and my wife.

My research is dedicated to the memory of my father.

121

APPENDIX I	Line process p	Crop and animal roduction, unting and ated service activities	Forestry and logging		Mining of coal and lignite	Extraction of crude petroleun and natural gas	m metal ores		Mining support service activities	Manufacture of food products	Manufacture of beverages x10	Manufacture of tobacco products	1	wearing	lanufacture of V leather and related products	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials x15	Manufacture of paper and paper products	recorded media	Manufacture of coke and refined petroleum products	chemicals and chemical products	Manufacture of basic pharmaceutical products and pharmaceutical preparations	products	Manufacture of other non-metallic mineral products		Manufacture of fabricated metal products, except machinery and equipment	optical products	Manufacture of selectrical equipment		otor vehicles, trailers and semi-trailers	Manufacture of ther transport equipment	furniture	other nanufacturin g	nachinery and equipment		supply	Sewerage	materials recovery	tivities and Construction of
Crop and animal production, hunting and related service activities Forestry and logging	x1 x2	1,119,729 274	2 38	4,725	-	-	-	-	-	346,907 2	11,958	3,420	9,762	-	-	- 46	-	-	-	-	408	-		-	-	-	-	-	-	-	-	-	-	-	-	8	-	- 1.403
Fishing and aquaculture	x3 x4	65	-	1,556	-	-	-	-	-	171	-	-	-	-	-	-	-	-	-	-	-	-	1,539	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
natural gas Mining of metal ores	x5 x6		-	-	-	2,397	19,154		39	-	-	-	-	-		- 0	-	-	878,844 -	5,220	-	- 41	-	52,233	1,864	-	-	-	-	-	-	-	-	308,937	-	-	-	0
	x8 x9	6,375	- 1	12,088	-	638,721 20,256		13,602 101	73,962 -	560,337	1,106		-			-		- 0		170	-	- 30	15,698 1,764 8	- 17	-	1	-	-	21		33	- '		27 26	-	- 1	2	- 94,824 - 3,079 - 615
Manufacture of tobacco products	x10 x11 x12	- 96	-	548	-	203	-	-	-	572 - 211	2,382	6,848 29	6,232	13,725	178	-	-	- 16	-		-		-	-	124	-	-		-	-	-	- 1	-	- 12	-	-	-	9
Manufacture of wearing apparel Manufacture of leather and related products	x13 x14	685	2	53	-	16,313	50	21	187	4,740	36	-	1 83	2,330	6.451	-	-		79	283	160	62	150	103	617	9	-	51	8	51	30	2	6	369 29	25 8	70	20	1 135
Manufacture of wood and of products of wood and cork, except furniture;	x15					170			.,,	-			- 05	2,530	0,131																				0		13	10
manufacture of articles of straw and plaiting materials Manufacture of paper and paper	x16	809	0	421	-	12,588	-	32	1,393	81	52	-	-	-	-	5,587	-	39	-	625	-	253	96	43	22	60	-	138		7	3,041	-	- 35	6	-	26	1	- 81,028
products Printing and reproduction of recorded media	x17	1,440	0	532	-	2,571	. 14	0	251 93	7,834 703	7,600 45	2,409	15	118	421 7	21	6,752	11,514 1,730	- 39	178 10	- 1	1/5	529	17	36	- 76	10	128	-	1	83	- 39	25	543 208	14	23	7	- 419
Manufacture of coke and refined petroleum products Manufacture of chemicals and	x18	135,793	239	9,201	-	72,383	316	2,925	8,471	14,577	738	82	61	236	39	102	-	1,241	341,487	29,549	1	650	6,246	261	1,755	366	29	296	2	25	459	4	248	4,150	5,637	623	31	330 121,870
chemical products Manufacture of basic pharmaceutical products and pharmaceutical	x19 x20	18,063	108	37	-	19,885	296	1,405	5,790	1,085	1,570	-	10	484	1,039	152	-	329	7,372	20,180	90	5,731	10,717	5,792	5,421	2,738	1,583	279	476	-	1,474	110		815	479	305	1	1 52,124
preparations Manufacture of rubber and plastic	x21	1,052	-	2,614	-	35 8.293	-	- 60	1.059	60 9,651	27,689	-	-	420	1.035	583	5,730	827	-	3,789	201	26,173	2,918	621	1.540	1.206	430	- 70	-	- 154	2.627	903	- 40	50 8,010	100	10	- 26	- 12
Manufacture of other non-metallic mineral products	x22	9,450	88	53	-	7,548	252	7,764	2,385	5,936	25,255		92	-	- 1,055	-	60	5	10	1,190	- 0	720	50,905	907	342	3,545	45	139		183	11	34	41	83	204	22	85	- 297,960
Manufacture of basic metals Manufacture of fabricated metal products, except machinery and	x23	4,058	-	100	-	37,316	335	459		110	-	-	103	20	-	37	-	48	4,543	517	-	1,381	2,673	11,522	17,983			14,910		23	67	33	1,700	2,637	8,032	61	25	- 427,172
equipment Manufacture of computer, electronic and optical products	x25	3,939 182	39	153		16,068	-	2	1,055	851 6,126	568 23	-		3 2	-	26		161	3 45	986 18	- 0	267	604	230	266	1,149	1,126	6,216		299	15	4	1,411	1,820	839 187	6	28	- 42,975 - 7,040
Manufacture of electrical equipment Manufacture of machineryand equipment n.e.c.	x26 x27	16,891 37,394	0	2,189 1,345	-	3,826 9,951	-	1,202 5,242	5,284 52,709	2,661 12,911	216 412		137	1,068	-	168	-	47 87	2,113 351	84 171		255 984	2,316 2,636	320	408 2,743	5,792 685	71,029 807	2,582 1,903		381	1,615	194	3,134 2,346	16,998 8,136	1,901 3,429	73	78 844	- 51,446 24 64,423
Manufacture of motor vehicles, trailers and semi-trailers Manufacture of other transport	x28	20,055	14	1,821	-	1,732	-	191	378	3,061	359	38	63	-	-	-	-	492	5	34	-	11	1,377	16	-9/70	23	-	28,772	-	-	-	-	-	485	338	323	1	27 4,601
equipment Manufacture of furniture	x29 x30	15,541 542	187	5,644 651	-	21,720 1,409		10	1,681 483	2,087 48	37 88	-	94 8	176 24	-	90 55	-	495 55	-	47 5	- 4	0 49	891	29 4	-	62 155		2,383 48	-	947 90	13,845	9	427 34	4,568 44	29 17	68 54	32	- 9,254 - 402
Other manufacturing Repair and installation of machinery and equipment	x31 x32	4,771	0	3	-	39,325 20,029	817	1,042	2,591 3,106	252 2,225	812 127	496	567	25 889	-	1,706	-	126 583	1,019	1,253	-	44	630	136	376 1,961	1,043	577	78 2,784	1,399	- 13	-	1	1,603 984	93 5,990	12 4,445	225	56	- 14,911 3 13,042
Electricity, gas, steam and air conditioning supply Water collection, treatment and	x33	196,745	12	5,973	-	31,964	2,935	3,291	3,441	58,257	2,785	91	422	506	353	245	3,816	341	27,757	6,190	21	2,438	29,152	7,299	2,335	496	3,167	1,696	8	48	555	65	302	36,520	16,589	702	403	248 48,891
supply Sewerage	x34 x35	10,857 4,795	26 0	841 366	-	1,140 15,333	-	57 2	492 20	2,603 619	2,044 125	14 0	10 0	27 12	48 1	74	515	59 4	143 0	868 214	1	37 2	386 3	161 2	317 280	108 13	34 15	101 19	-	- 68	19	3	47 2	263 208	10,482 661	45 123	168	8 2,321 - 1,008
Waste collection, treatment and disposal activities; materials recovery	x36	847	0	-	-	615	-	6	153	583	101	0	0	16	2	-	5	124	-	3	0	4	136	3	48	8	0	4	-	-	-	0	6	64	113	5,727	365	717 638
Remediation activities and other waste management services Construction of buildings	x37 x38	3,026 86,350	- 191	3,446	-	284 108,093	-	5 47	73 16,282	2 3,495	2 1,272	-	- 77	- 1	0 131	14	-	981	24,660	0 4,539	-	518	424	- 571	11 2,546	- 61	0 419	0 425	-	-	660	0 4	0 892	5 18,578	5 16,023	548 5,458	21 2,974	8 118 22 1,445,864
Wholesale and retail trade and repair of motor vehicles and motorcycles	x39	120,592	37	2,830	_	12,875	1,788	3,954	2,173	194,808	2,859	534	1,268	1.364	508	86	348	552	32,845	3,668	61	1,168	4,839	5,496	1,112	683	1,834	38,737	16	32	2,865	40	310	1,377	748	133	22	534 55,133
Land transport and transport via pipelines Water transport	x40 x41	299,997 2,143	97	7,195 200	-	102,449 7,179		3,246 1	50,637 496	233,473	5,320 607	1,372	3,198	2,662	1,239	209	885	1,400	94,928	9,516	155	2,786	12,698	14,324	2,355	1,670	4,416	1,736	41	85	1,991	102	177 412	7,995	1,199 757	225	99	80 154,075 - 29,729
Air transport Warehousing and support activities for transportation	x42 x43	142	- 65	-	-	1,833 9,229	-	5,287	18 727	9 287	124	-	- 10	1915	63	-	-	14	-	- 112	-	139	242	5	- 86	68	239	- 25	-	-	3 809	- 4	7	64 142,202	1 794	- 2	0	- 29,729 - 197 - 70,846
Postal and courier activities Accommodation	x44 x45	122 4,076	0 20	37 2,335	-	100 1,341		0 213	18	15 927	4 162	- 0	0 77	0 -	99	- 0	- 0	1 59	0 94	2 37	2	16 170	15 809	3 30	1 7	1 87	30	1 35	-	3	453	7	0 49	31	20 235	0 8	9	0 29 11 7,461
Food and beverage service activities Publishing activities	x46 x47	990 578	12 0	304 15	-	716 66	-	38 1	255 78	132 145	78 9	-	5 15	63	27 13	20	-	11 30	9	- 6	-	118 3	189 11	0 23	3 -	13	29 30	64	-	1 -	149	-	101 3	215 147	41 13	2	0 191	- 892 - 1,878
Motion picture, video and television programme production, sound recording and music publishing	x48																																					
activities Programming and broadcasting activities	x49		-	-	-	-			-	-	-	-	-	-	-		-		-	-	- 12	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Telecommunications Computer programming, consultancy and related activities	x50 x51	862	- 5	784 12	-	4,975	-	50	223 377	693 71	172	41	- 56	6	37 9	74	30	14	318	143	9	19	84	67	291	47 16	119	144	-	-	285	- 0	5 146	849 271	213	32	3	2 2,636
Information service activities Financial service activities, except insurance and pension funding	x52 x53	7,394	0	2 229	-	5,922 7,277		188	1,632	47,086	1,896	41 146	2,213	531	1,332	92	- 117	2	7,438	771 118	- 7	3,546	19,960	322	323	228	- 50	35 2,147	- 0	- ,	172	- 3	3 393	47 3,620	377	- 56	- 48	- 1,612 0 92,995
Insurance, reinsurance and pension funding, except compulsorysocial	x54	24,994				5,366		100	1,953	13,946	1,188			101	133	113	1,146		7,550	344	59	282	583		378		125	2,117					617	2,743	277	30	-10	20 41,285
Activities auxiliary to financial services and insurance activities	x55	10	0	1	-	41	0	1	1	15	1	-	1	0	0	1	2	0	148	0	0	2	3	0	1	1	1	0	0	0	0	0	0	2	0	0	0	0 16
Activities of head offices;	x56 x57 x58	492 271	154 0	- 20	-	10,241		1,432	13	20,411 205	1,850 1	153	372	3,108	- 34	498	1,031	0	1,931 7	4,794 5	29	5,203 10	2,642 12	682	56 3	305	13,303	449 0	-	118	212	141 0	429 1	7,319 17	75 10	3,351	473	8 94,742 - 1,026
management consultancy activities Architectural and engineering activities; technical testing and	x59	-	-	-	-	-	-	-	11,485	13	30	-	-	23	-	-	-	816	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	2	-	-	-	- 8,913
analysis Scientific research and development Advertising and market research	x60 x61	51 25,141 541		400	-	2,735 24,645 1,177	-	29 128		2 1,740 3,247	137 50 5,814		- - 10	130	34 113	- 13	-	34	15,831 - 7	315 532 174	22	2 159	26 816 414		- - 12	1,118 619 22		33 10	- 1	-	988	333	535 5,320 65	47,489 58 55	349 18 17	- 23	-	- 708,604 - 176,812 - 4,478
Other professional, scientific and technical activities Veterinary activities	x62 x63	1,451	-	200 58	-	14,699	-	40	28,130	7,820	72	- :				61	-	-	-	-	-	-	47	31	419	3	-	11		-			31,594	290	22	399	-	298,054
Rental and leasing activities Employment activities	x64 x65	1,842 1,367	40	44		7,377 130		55	1,605	1,138 71	210 29	-	5	-	20	-		204	5	4	-	82	1	74	17 688	-	105 939	3	-	-	243	10	380	108	0	11	-	19,270 - 30,059
Travel agency, tour operator reservation service and related activities	x66	5		-		68	-		-	2			-			-	_				-						41	-							-	-	-	72
Security and investigation activities Services to buildings and landscape activities	x67 x68	202	- 6			6,548		-	1,709	2,374	10 21	1,263	228		-			3	14,622	58		-	3,644	-	48	445	70	985	-	-	-	-	-	2,758	10	624	2	- 644 - 1,784
Office administrative, office support and other business support activities Public administration and defence;		150	-	-	-	89	-	65	-	436	11	-			-	-	-	-	-	-	-	7	0	-		-	-	-	-	-	-	3	-	312	-	-	-	- 1,573
compulsory social security Education	x70 x71 x72	- 29 3 609	- 0	- 0	-	2,376 32 175 451		-	20 269 45	381 49	19		-	128	-		-	57	- 233 285	- - 100	- 0	198		71	10 -	59 -	3 29	83	-	35	-	- 0	477	2,966 5	24	- - 21	-	- 625 - 1,504 - 284
Residential care activities Social work activities without	x73 x74	3,609 1,419	0	150	-	451	-	3	46	31	-	16	-	-	-	-	-	7	-		-	63	59	31	11	- 102	- 29	-	-	-	74	3	-	111	-	7	-	- 284 - 586
accommodation Creative, arts and entertainment activities	x75	42	-			11	-		-	-	-	-	-			-			-	-	-	-	-	-	-	105	-	-		-	-		-	- 1	-	-		
Combline and bettine entirities	x76 x77	54	0		-		-	-	-			-	-	-	-	-	-		9			-		-		-	-	-	-	-	-	-	-	-	-	-	-	
Sports activities and amusement and recreation activities Activities of membership	x78	1	-	-	-	-	-	-	50	-	-			-	-	-	-	-	135	-	-	-	-	-		-	-	-	-	-	-			-	-	-		- 1
organisations Repair of computers and personal	x79 x80	548	-		-	9,897	-	-	1,817	213 494	1			1	-	- 0	-	3	- 26		-	2 21	- 10	-			7	43		-	- 43	-	33 7	3 218	10	-	- 7	- 234
and household goods Other personal service activities Net taxes on goods and services used	x81	790				91			2	1,760	6		-	-	-	-		127	-	1,027	-	- 31	0	-	26		0	3	-	-	26	16	-	-	154	-	- '	1 10,337
in the production CIF/FOB Total		5,026 - 2,220,784	118 - 1,551	5,846 - 75,400	-	86,553 1,439,748	31,877	3,442 - 58,862	18,475 - 383,775	46,874 - 1,636,733	4,192 - 113,475	17,608	812 - 26,008	1,605 - 32,693	940 - 14,488	569 - 10,680	1,045 - 21,493	25,633	109,537 - 1,567,220	12,043 - 110,210	43 - 1,284	2,430 - 56,283	11,622	2,859	3,979 - 51,064	1,710 - 41,708	6,475 - 136,109	7,213 - 115,285	92 - 2,065	115 - 2,682	1,783 - 34,799	2,178	3,005 57,605	14,836	10,360 87,305	1,784	521 - 6,689	188 319,769 - 2,232 5,014,133
Compensation of employees Social contributions Net profit		103,093 20,455 2,230,418	61 6,904	248 111,876	-	489,414 176,119 23,454,571	2,570 29,597	189 23,223	2,071 282,441	20,090	9,346 2,628 42,839	706 198 3,513	3,568 1,003 17,760 344	797 224 3,967 77	743 209 3,697	491 138 2,546	242 4,372	13,418	34,950 618,953	10,687 3,005 53,192	79 22 392	880 15,540	12,757 3,587 62,668 1,231	3,472	30,322	1,176 20,812	1,357 23,921	5,614 1,579 27,943 542	236 66 1,144	1,030 290 5,125	1,476 415 7,348 142	366 103 1,824	1,384 24,600	589,584	21,618 4,046 23 346	11,209 2,099 21	17,332 3,244 7	1,706 468,185 319 105,718 0 3,310,689 28 36,002
Taxes on production Consumption of fixed capital		19,361	58 438	243 770	-	98,712 397,789	3.293	98	4.823	70.307	902 9.494	68 717	3.624	810 5,875	72 754	47 499	83 876	260 2,738	12,205 126,217	1,031	8 80	302 3,177	12,958	12.541	498 5.245	403 4.247	466 4.902	542 5,703 41,380	23	99 1.046	1.500	35	4/5	5,810 123,018 887,012 1,555,815	346 1,667 27,701	182 868 14,379	277 1,342 22,202	132 220.410
Output, total (home prices) Source: Input-Output tables, The State S	Statistical Comm	4,742,105 nittee of the Rep	7,768 9,319 public of Azerbaija	189,773 an, 2011	-	26,056,354	74,366	83,248	680,338	526,202 2,162,935	65,209 178,683	5,203 22,811	26,299 52,307	38,569	5,474 19,962	3,723 14,403	6,436 27,929	45,504	916,620 2,483,839	188,979	580 1,864	79,310	93,201 284,701	91,105 195,621	42,681 93,745	30,819 72,527	171,581	156,664	1,709 3,774	7,589 10,271	10,881 45,681	4,879	93,986	1,555,815	115,006	35,953	28,891	2,185 4,141,003 4,418 9,155,136

Wholesale and retail trade and repair of motor vehicles and motorcycles	Water transport	Air transport ac	archousing du support tivities for activities for a	er	Food and latio beverage service activities	Publishing activities	Motion picture video and television programme production, sound recording and	Programming and broadcasting	Telecommunica tions	Computer programming, consultancy and related activities	Information activities insura	ities, per ept funding	rance, Activi ance and auxilia asion finan- z, except service- lsorysoci insura	ry to rial Real es and activi nce	state Legal ties accou	l and head o	Architet and ffices; engines activit tancy testing	d ering Scien	ntific Adver ch and and m pment resea	Othe tising professi arket scientific arch techni activit	onal, c and cal		Employment activities		Security and investigation activities	Services to buildings and landscape	ice support adm nd other and business con	Public inistration d defence; F mpulsory al security		nan health ctivities c	Residential are activities	Social work activities an without entertail commodation activity	museums	s, Gambling and betting aral activiti	and Sports activiand amusen and recreat activities	ties ent ion Activities of membership organisation	Repair of computers and personal and household goods	Other personal service activities
x39 x40	x41	x42	x43 x44	1 x45	x46	x47	music publishing activities x48	x49	x50	x51	fun	mng	curity activi				analy	ysis	60 x6			x64	x65	activities x66	x67	x68	x69	x70	x71	x72	x73	x74 x7		_	x78		x80	x81
- 35 	-	- - -	 	44	5,339 - 6 5,521		-	-	-	- - -	- - -	-			-	-	-	-	15			-	-	21 - -	-	4 - -	4	262	438	310		-	- 30,80	1 -	-	<u> </u>	-	-
- 39	-	-	 85 -		-	-	-	-	- - 19	-		-	58		296	-	-	243	-		. <u>.</u>	-	-			-	-	163	-	-	-	-	 	-	-	- 1	-	1,796
1,123 161 0 - 286	481	- 42	93	56,66 3,22 1,22 0 49	56 10,447 28 2,913 27 600 00 14	-	3 9	-	-	-	- - - -	1 -			441	-	2	27	52 0 -	0 -	- 1	1 -	-	192 19 -	-	2 0	570	395 3,839 - - 23	1,314 101 - 68	14,052 31 - 657	1,833	362 19 -	1 5 0 -	3 -	79	7 194 8 25 1 13	-	37 2
80 956	-	359	121	1 -	48	-	-	-	7	-	-	-			15	-	176	5	3				-	-	4,024	-	-	1,153	26	281	2,088	-	1 -	3 -	86	5 -	-	- 15
142 521 206 664	-	- 934	- :	10 9	95 -	-	-		43	-	-	1			419	13	17 1,	.490	20	67 -		- 10	1 439	-	-	0	241	295 7.307	- 787	20	1,201	- 7	0 1	6 -	-	- 141		3,093
1,398 156 185,403 96,752	0 19,376	10,861	45 10,243	29 37 30 8,28	74 106 86 352	1,998	2 46	43	917	254	27	32	191	6 25.	85 ,497	26	66 477 1,	123	25 1 113	,670 120 -	6 0	4 1,623	70	31	2,692	10	4,179	3,957 5,895	13,733	1,971	396 32,319	5	20	5 -	64	/ 81 0 176	7	48
240 971	-	-	523 -	1,62	23 31	-		2	0		-	1	-	0	449	-	- 1,	,695	250	16 -			-	47	-	247	25	619	98	1,448	257	2	19 -		0 2			5,540
13 42 127 3,575 3 346	-	-	3	0	9 -	-	-	4	504	-	- 44	-	31		93	-	- 1	210	1 14	1,916	. 0		-	- 66	38	2	16	50	-	67,626 129 90	4,000	-	2 -	7 -	1	2 86	-	6,914
0 2,782 4,481 2,547	-	-	186 -	-	-	-	-	0	343 1,669	-	28	-			330	-	4 8,	719	39	37 -			-	110	344 226	35	33	42	1,002	3 195	-	-	- 43	5 -	7	3 7	4	10,915 5,646
1,281 282 74,114 3,200 5,682 8,902	2 5,218	2,784	1,239 698	59 2,37 23 48	71 228 35 820	131 25	277 15	650 204	8,426 4,977 3,901	448 67	162 5,484	318 0	173	2 112 1 135	,759 ,786	635	44 4 329 4	495 171 818	139 42 213	188 175	2 1	1 54	-	937 564	2,284 69	21 177	63 48	11,324 4,715	3,292 914 3,849	10,618 2,677 4,420	1,067	1 1	46 84 17 5	6 49	90 1,99 14 27	7 112 2 18	735 278 4 058	2,619 1,508
51,779 36,569 50,523 13,686	20 6,232	947	12,814	5 23	33 2,121 35 866	23	4	35 51	290 1,315	- 56	7	243	388 -	4	,829 26	-	32 4,	,012	199	32 -	. 1	2,535	-	- 1	528 45	1,022	93	1,071	1,599	10,685	3,680	-	- 5	5 -	8	253	-	209
42 132 191 293 925 14,342	18 299 3,737	813	18 75 437	14 4,33 1 34	30 852 2 23 1 969	91 8 3	3	76 0	186 739 961	79 2 129	0 307	1,852 3 760	10	2	431 6 1	-	-	3 633	30 0 47	105 14 -	3 0	0 41	3,867	169	2,657	19	32 2 22	9,432 5 832	8,480 36 21	855 63 262	923	10 8	127 9 246 1	5 3	37 86 27 3	8 85 6 2 4 215	92 0 13	794 34 38
3,516 2,421 1,088 173	185 45 4	710	357 121 26	12 14,31 1 53 0 17	7,649 31 905 79 156	53 4 14	5	275 68 4	5,178 117 16	131 8 11	260 20 10	1,079 52 40	103 4 3	14 14	941 307	29 0	266 10 4	806 269 52	382 112 19	403 24 2	0 1 0 0	1 14 0 1	39	991 88 3	179 219 84	27 8 2	263 34 24	9,778 2,077 613	3,893 970	18,858 6,442 1,912	8,407 230 10	63 24 9	28 50 22 5,11 2 1	7 4	5 1,33 1 11 0 5	7 16 1 9	91 5	639 54 42
232 53	4	722	14	1 53	35 98	1	_	1	24	0	13	38	3	2	,152	0	0	63	4	11 -	. 1		-	2	13	2	81	894	354	1,059	_	10	4 1	6 -	4	5 5	2	49
40 6 40,839 6,314 335,756 18,222	194	26,791	4,129	59 11,01 70 7,09	0 20,331 04 14,411	245	- 13	35	9,124	397	442 5	2,544	1,113	3 34	,765	96 10.	225 6,	,793	221 2	672 1	5 3	2 150	376	8	457	79	180	318,706	68,666	104,030	3,470	628	11 2,69	8 1,2	78 90 9 32	377 5 105	160	62,419
54,700 68,477 - 27 303 35	4,314 1,797 1	20,944 - 7,595	3,537	28 17,08 - 1,07	-	327	33	69 7 0	1,664 11 69	154 4 2	360 11	1,456	145 5 13	2 18.	,026	176	168 3,	,432 519 13	93 1		2 1	1 350 - 0 34	954 -	372 - 41	1,576 - 159	55 - 4	982 - 60	4,885 3,926 108	4,773 - 121	7,120 11 384	8,779	103 - 1	32 6,98	1 :	31 1,00 - 5 10	6 13	195	2,730
25,556 37,915 70 11 12,442 2,897	1,529 0 365	2 4,036	3,924 5 1,15 580	17 27,80	9 1,032	38	0	25 1 7	3,913 130 1,010	- 0 475	2 574	187 5 861	22 350		126 25 328	1 43	396 0 118 5.	98 33 511	1 5 2 349	5,600 - 1 924 -	0 0	0 - 0 0 4 162	-	274 1 1,777	1,019 14 5,822	115 0 52	97 3 292	391 1,298 14,329	2,135 30 10,496	578 190 8,321	19	- 1 7	0 11 8		32 - 0 0 04 29,92		1 97	831 4 632
6,710 1,000 114 28		306 7,657	639	3 6,33 9	36 542 1 53	11 168	-		195 105	24 64	6	185 277	34 209	0	239 99	17	207 1,	.406 200	16 45		9 0	53		347 19	567 193	5	93 498	1,938 1,437	5,913 1,336	2,131 309	-	11 20	602 3 9 12	7		6 147 5 35	27	293 31
	- 1	- - 524	1 - 476	27 35 7,42	32 70 - 28 555	389	16 259 45	379 2,315 570	305 107,808	- 717	1,405 1	. 0.646	267	0 17.	468 706	- 45	173		7 125	18 -	0 -		-	- - 544	1,167	- 19	5 918	2,399 89 3,563	3,067	7 63 1.633	- 244	- - 20	 3 11	- 8 12	25 33	6 126	- 15	5,551 1,636
541 176 2,915 326 173,665 7,465	544	277	39 63 471	7 31 97 1,66	55 685	26 1,860	0	1 7	2,188	59	1,389 848	163 225	10	7 5. 35 6.	,347 6.		410		27	183 - 246	0 0	0 624	-	192 329 3,059	579	38 5	1,522 8,377	8,334 4,563 125,940	2,462 598	192 312 13,213	675	4 2	2 -			4 7 3 10 8 386	118	425 16 2,083
20,271 4,085	661	-	244	3 1,75			-	80	2,743	460		3,903	143	0	407	11	72 1.	,207	38	291	0 0	2,863	-	1,184	1,076	4	406	4,593	5,142	1,590	61	0	3 7	5	41 1,23		560	467
16 5 123,071 34,160 1,405 38 8,123 2,147	0 1,041 6	12 41,969 -	3,144	0 56 12,64 1 1		755 3	55 1 42			0 1,817 8	0 219 8 9	53 2,532 405	8 3,442 26		2 299 551 276	0 200 30	0 147 9, 2		0 173 1 1	2 1,823 18	0 0 1 0 0 0) 1 0 5,540) 1			9,528 3	0 71 0			7 15,062 262	1 6,209 429 871	4,619 46	0 548 2	0 32 1,41	0 - 9 6: 1 8,2:		0 0 8 45 4 6	1	8 29,357 9
18 6,247		-	380 -	39	90 -	654	_	1.368	12,599 572 25,781	1.339	-		-		481 5.	.932	3 60.		3,243 23 828 104 2	3,419 235			-	138	-	-	9,613	3,104 483 46,707	451	-	-	-		8,2	-	3,478	3,917	2,308 1,141
298,068 237 67 1,497	12,968	2,327	1,517 1		96 2,504 94 7,151	679	3	289	25,781 55,854 57,025	106	18 580	392	3,009	4 111	,776 ,883 - ,767		-	,063	4 1	,519	48 1	1 154 -	29	1,048	2,178	24	1,618	2,806 34,118	1,698	2,217 0	-	3 - -	2 -		06 3,25 1,44	3 26 2 1,873	27	1,141 2,036 1,907
19,502 1,730	130	1,169	529	8 2,98 30	87 803	75	57	147	3,084	- 47	50 707	7,332	7	0 1	,767	35	- 2,	436 354	26	531	2 0	658	915	1,574	646	-	231 253	1,166 50,472	2,413	406 1,011	- 44	344 229		8 -	- 24	2 193 348		1,521
6,837 16 59 75	-	-	1,350	0 46	-	-	- 0	2	1,856	- 1	772	13		- 1,	,677	107	803	2		56 -		-	-	- 8	8,441	- 1	2	8,663 1,087	593 167	4,692 657	-	1	0 -	-		6 -	4	20
28 52 0 - 43 58	16 2	-	683	32 5 14 31 0 -	135 13 2 - 2	13	-	16 - 4	180 476 1	19	30	947 1,223 360	713 285		0	209 49 0	- 1,	.764 .685 .353 .12	81 53	10 - 15 - 11	0 -	9	-	334	6,981 98 -	0 0 7	33 18 21 0	1,719 6,727	9,775 10,854 56	574 3,832	-	2	- 10,98 - 6	4 - 9 - 2 -	2 7	9 1 683 3 3 6 23	4	1,114 24 45
400 6,341		70	186 227	7 1	17 256		8 22	146	1,469	10	43	149 886	1		24 41	3 2	4	100	7	26 -	. 0) -	- 24	9	1,078		9	800 175 767	5,683	4,521 2,448	79	603	- 1	4 -	3,34	3 534	-	45 181 100
- 8	-	-		-	9 -	-	-		187	-		83			-	9	-	4	2	13 -	- 0) -	-	-	-	0	1	1,272	429 - 1,172 40			3 -	- 61 	7 -	39			-
- 1 29 267	-	2,118	266	0 2	28 -	4	192	109	7 12,350	100	14	8,165 62	2	0	16	32	2 80	39 82	7	35 -	- 0	266	-	71 95	230 488	0	3	981 162	523 -	0	13	1 11		10,33	42	3 9		
126 221 18 5 119,635 44,821	8,437	29 -	718 19 :	5 11 25 3,64 77 11,89	12 415		231	7 3 1,260	332 23 37,526	111 3 1,284	2 0 1,248 1		26 147 1,101	1	,193 7 328 1.	352 1.	-	-	205 14 378 7	7,489	5 1 24 3	0 1 1 235 3 1,165	858	160	274 329 3,143	0 0 127	26 1 2,816	140 17,137 61,132		2,929 7,885 23,483	75	10 0	1 1 - 17 116 2,34			9 1	1 - 417	63 5 11,894
1,710,370 472,035 979,041 207,754 184,862 114,718 1,972,990 1,460,950	4,562 1,499	26,723 14,756	21,702 2c 11,983 1-	62 11,16 45 2,47	52 68,280 77 14,626	1,296	1,436 275 69	10,133 4,530 1,133 14,137	383,783 144,325 36,123 450,891	l 668 I	18,463 21 5,247 20 1,312 4 16,375 24	2.502 I	26,916 1 59,888 12,660 73,644	55 577, 82 20, 17 6, 101 754			696 162, 815 68, 933 18,		- 1,358 213 1,288 89 1,766 24 8,244 76	5,539 3	13 41	1 18,627 3 39,079 2 6,191 4 15,550	10,507 49,707 7,852 15,870	19,985	62,384 9,973 1,559 738	2,804 1,391 217 1,998		183,130	205,461	42,611	3,167	17,685	438 14,44	6 7,36 2 1,75	50 56,89 53 13,55	3 4,016 1 754	721	179,699 58,072 10.910
20,206 13,558 126,561 341,555 3,283,660 2,138,535 4,994,030 2,610,570	131 3,201 19,056 112,615	187,945 1,744 43,935 275,102 558,088	1,416 35,680 4: 223,411 2,6 360,130 4,3	17 79 31 30,85 698 186,55 693 406,18	94 2,217 59 11,443 53 570,651 80 683,920	1,067 1 6,779 6 16,480	10 226 1,436 2,872	165	5 265	98 2,200 13,978 34,517	16,375 24 192 4,321 5 27,447 59 45,911 76	2,536 7,295 0,662 1 3,261 1	756 17,066 64,014 90,931	1 5. 23 27. 226 816 381 1,393	,822 ,573 1, 6,203 24 3,428 42	140 ,453 2, 4,925 50 2,541 67	282 936 9353 158 1,049 320	876 ,228 7. 8,251 125 0,546 133	702 1 7,307 12 5,306 206 3,664 426	1,128 2,021 9 6,808 15,1 0,347 16,0	88 90 19 941 752 16,14 065 16,18	0 400 1 3,422 0 64,641 2 83,268	507 4,529 78,466 88,974	409 3,643 70,415 95,322	101 907 13,277 75,661	14 126 3,747 6,551	17,007 257 2,307 48,624 87,332	8,892 74,019 1,162,320 2,164,420	172,455 8,019 70,503 1,603,914 1,848,817	3,557 71,097 486,003 854,317	265 5,287 36,089 125,313	1,480 29,522 1 202,011 5 205,363 7	.822 57.50 34 1,11 285 42,33 ,417 176,00 ,361 248,9°	8 1: 1 5,14 36 21,3 73 45,8	36 1,04 41 39,72 91 165,15 27 233,55	172 308 8 26,344 1 39,921	20,275 164 294 4 25,291 37,588	2,476 4,451 384,472 564,172

	Total intermediate consumption	Actual final consumption expenditures of households	Expenditures of government institutions providing services	Expenditures of non - profit institutions providing services for households	Gross fixed capital formation	Changes in inventories (+,-)	Net acquisition of valuables	Export	Consumer prices have been used in	Import	CIF/FOB	Basic prices of domestic goods and services used in
1965	1,534,677	3,088,119	191,499	-	2,551	254	-	423,577		- 498,572	-	
	7,319	183,380	-	-	-	-	-	-	190,699		-	189,773
1161 1162		-	_	-	-		-				-	
	118,554	-	-	-	-	99	-	7,545	126,198	- 42,950	-	83,248
March 1950	693,234	1,998,616 175,955	-	-	-	2,144		84,148	2,778,142	- 615,207	-	2,162,935
1980	9,642	212,476 31,840	-	-	-	173 2,105	-	9,197	231,487	- 208,677 - 39,135	-	22,811
The color The			-	-	-		-				-	
1986	9,968		-	-	-	117	-	7,548	29,840	- 9,878	-	
1960 1967			-	-	-		-				-	
March Marc			6,003		-		-					
			-	-	-		-				_	
1988			-	-	-		-				-	
1988	02.145	2000	5.774					45.037	210 402	200 (10		100
			3,720									
Section Color			-	_	-		-	3,645			-	
1985 1985 1985 1986		<u> </u>	-	-	-		-	106,753	709,894		-	195,621
Carrier Carr	105,754	7,275	-	-	254,422	120	-	5,269	372,839	- 279,094	-	93,745
Charles			-	-			-				-	
Marie 1.600		-										
Section Sect		61,901	-				_				-	
General 964 2-98 - 1865 2 179 97.45 2555 4.67 95.25 - 1 - 1 - 1 - 1 - 1 - 1 - 1 95.25 - 1 - 1 - 1 - 1 - 1 - 1 95.25 - 1 - 1 - 1 - 1 - 1 95.25 - 1 - 1 - 1 - 1 - 1 95.25 - 1 - 1 - 1 - 1 95.25 - 1 - 1 - 1 - 1 95.25 - 1 - 1 - 1 - 1 95.25 - 1 - 1 - 1 - 1 95.25 - 1 - 1 - 1 - 1 95.25 - 1 - 1 - 1 - 1 95.25 - 1 - 1 - 1 - 1 95.25 - 1 - 1 - 1 95.25 - 1 - 1 - 1 95.25 - 1 - 1 - 1 95.25 - 1 - 1 - 1 95.25 - 1 - 1 - 1 95.25 - 1 - 1 - 1 95.25 - 1 - 1 - 1 95.25 - 1 - 1 - 1 95.25 - 1 - 1 - 1 95.25 - 1 - 1 95.25 - 1 - 1 95.25 - 1 - 1 95.25 - 1 - 1 95.25 - 1 - 1 95.25 - 1 - 1 95.25 - 1 - 1 95.25 - 1 - 1 95.25 - 1 - 1 95.25 - 1 - 1 95.25 - 1 - 1 95.25 - 1 - 1 95.25 - 1 - 1 95.25 - 1 95.25 - 1 - 1 95.25 - 1 - 1 95.25 - 1 95.25 - 1 - 1 95.25 - 1		10,133	4,998	-		-	-	3,079			-	
MAGE 190.130	66,141	9,684	2,485	-	7,855		-	1,270		- 82,555	-	4,879
1500 1500	93,538	-	-	-	-	448	-	-	93,986	-	-	93,986
14-255 12-104			-	-	-		-	119,014		- 6,454	-	
A	61,960 29,685	53,034 6,244	-	-	-		-	-	115,006 35,953	-	-	115,006 35,953
A	16,755	12,136	_	_	_	1	_	_	28,891	_	_	28,891
194,155 3,353,119	4,418	_	-	-	_		-	-	4,418	_	_	4,418
1113100	2,536,456	374,835	13,407	-	6,537,249	9,812	-	89,054	9,560,814	- 405,678	-	9,155,136
1545	954,153	3,853,119	17,434	-	28,366	6,021	-	134,937	4,994,030	_	-	4,994,030
Mailang 25,646	1,272,626 47,845	1,113,330 53,394	66,874	-	72,010	-	-	779,396 13,773	3,305,981 115,012	- 781,456 - 2,694	86,045 297	2,610,570 112,615
156.52 51.65			-	-	-		-	554,206		- 629,590	69,323	
\$15.578	3,560	-	816	-	-	17	-		4,393	247.407	-	4,393
16,689			-	-			-					
9.533 24.79		-	-	-	-	- 0	-	-		-	-	
9.533 24.79												
194,114 949,672		24.479	-	-	-		-	-		-	-	
46,808			-	-	-		-	55,033		- 59,549	-	
151,259 39,672		-	-	-	-		-	-		-	-	
381	722,125	52,261	-	-	-	- 0	-	471	774,857	- 11,596	-	763,261
381	151.259	39.672	_	_	_	_	_	_	190.931	_		190.931
\$5,088 36,001 2		_	-	-		-	-	-		_	_	381
898,319	681,130 5,938		232,342	-	-	37 2	-	-	1,393,428 42,541	-	-	
491,022	67,049	_	-	-	-	- 0	-		67,048	-	-	67,048
491,022			_			207		280,188	1,178,714	- 858,168		320,546
116	401,022	-	82,546	7,982	-	- 8		-	491,542	357,879		133,664
82,286 984 - - - 2 - - 83,268 - - 83,268 88,974 - - - - - - - 88,974 - - - 88,974 - - - 88,974 - - - 88,974 - - - - 88,974 -		2,213	16.066	-	-	-	-	14,042		- 628,455	-	
\$203 98,958 1 - 92,282 196,443 101,121 - 95,322 75,644 75,661	82,286	984	10,000			- 2			83,268			83,268
75,644												
87,178		98,958	-	-	-		-	92,282		- 101,121	-	
24,557 . 2,132,618 . . 85,361 2,242,336 . 77,916 . 2,164,429 26,432 207,133 1,503,664 111,588 1,848,817 . . . 84,417 .	6,589	-	-	-	-	- 38	-	_	6,550	-	-	6,550
26,432 207,133 1,503,664 111,588 -		_	-	-	-	154	-	-		-	-	
27,219 34,011 64,073 125,313 - 125,313 1,426 99,190 104,747 205,363 2,154 2,099 1,838 1,260 - 9 - 7,361 7,361 3,450 178,410 67,113 248,973 248,973 44 33,439 12,345 45,827 24,751 145,687 62,973 180 - 233,591 - 233,591 30,341 9,586 6 - 39,921 - 39,921 9,330 28,307 49 - 37,588 - 39,211 9,330 28,307 49 - 37,588 - 37,588 45,679 518,550 57 - 564,172 1,164,151 1,085,512 62,282 7,120 736,961 3,056,025 - 3,056,025 21,335,382 19,216,017 5,274,671 189,000 10,508,934 47,037 - 29,388,275 85,959,216 12,541,890 0 73,417,326 6,293,100 1,467,912 189,000 10,508,934 47,037 - 29,388,275 85,959,216 12,541,890 0 73,417,326 6,293,100 1,467,912 189,000 10,508,934 47,037 - 29,388,275 85,959,216 12,541,890 0 73,417,326 6,293,100 1,467,912 189,000 10,508,934 47,037 - 29,388,275 85,959,216 12,541,890 0 73,417,326 6,293,100 1,467,912 189,000 10,508,934 47,037 - 29,388,275 85,959,216 12,541,890 0 73,417,326 6,293,100 1,467,912 189,000 10,508,934 47,037 - 29,388,275 85,959,216 12,541,890 0 73,417,326 6,293,100 1,467,912 189,000 10,508,934 47,037 - 29,388,275 85,959,216 12,541,890 0 73,417,326 6,293,100 1,467,912 189,000 10,508,934 47,037 - 29,388,275 85,959,216 12,541,890 0 73,417,326 6,293,100 1,467,912 189,000 10,508,934 47,037 - 29,388,275 85,959,216 12,541,890 0 73,417,326 6,293,100 1,467,912 189,000 10,508,934 47,037 - 29,388,275 85,959,216 12,541,890 0 73,417,326 6,293,100 1,467,912 189,000 10,508,934 47,037 - 29,388,275 85,959,216 12,541,890 0 73,417,326 6,293,100 1,467,912 189,000 10,508,934 47,037 - 29,388,275 85,959,216 12,541,890 0 73,417,326	26,432		1,503,664		-	-	-	85,361	1,848,817	-	-	1,848,817
2,154 2,099 1,838 1,260 9 7,361 - 7,361 3,450 178,410 67,113 - - 248,973 - 248,973 44 33,439 12,345 - - - 45,827 - 45,827 24,751 145,687 62,973 - 180 - 233,591 - 233,591 30,341 - - 9,586 - 6 39,921 - 39,921 9,330 28,307 - - 49 - 37,588 - 37,588 4,5679 518,550 - - - 57 564,172 - 564,172 1,164,151 1,085,512 62,282 7,120 75,061 - 3,056,025 - - 155,665 0 21,335,282 19,216,017 5,274,671 189,000 10,508,934 47,037 - 29,388,275 85,959,216 -12,541,890 0 73,417,326<	27,229	34,011	622,823	51,465	-	- 41	-	-		-	-	
3,450 178,410 67,113				-	-	-	-	-		-	-	
44 33,439 12,345 - - - 45,827 - 45,827 24,751 145,687 62,973 - - 180 - 233,591 - 233,591 30,341 - - 9,586 - 6 39,921 - 39,921 9,330 28,307 - - 49 37,588 - 37,588 44,679 518,550 - - 57 54,4172 - 56,4172 1,164,151 1,085,512 62,282 7,120 756,961 - 3,056,025 - 155,665 0 21,335,282 19,216,6017 5,274,671 189,000 10,508,934 47,037 29,388,275 85,959,216 12,541,890 0 73,417,326 4,902,010 - - - 29,388,275 85,959,216 12,541,890 0 73,417,326 2277,010 -				1,260	-	9	-	=		-	-	
30,341				-	-	-	-	-		-	-	
9,330 28,307 49 37,588 37,588 45,679 518,550 57 - 564,172 - 564,172 1,164,151 1,085,512 62,282 7,120 736,961 3,086,025 21,335,282 19,216,017 5,274,671 189,000 10,508,934 47,037 - 29,388,275 85,99,216 12,541,890 0 73,417,326 6,293,100	24,751	145,687	62,973	-	-	180	-	-	233,591	-	-	233,591
45,679 518,550		-	-	9,586	-		-	-		-	-	
21,335,282 19,216,017 5,274,671 189,000 10,508,934 47,037 - 29,388,275 85,959,216 12,541,890 0 73,417,326 6,293,100 1,467,942 38,581,292 277,010 2,406,675 4 9,026,019			-	-	-		-	-		-	-	
21,35,282 19,216,017 5,274,671 189,000 10,508,934 47,037 - 29,388,275 85,959,216 - 12,541,890 0 73,417,326 6,293,100 1,467,942 38,881,292 277,010 2,406,675 4 9,926,019	1,164,151	1,085,512	62,282	7,120	736,961	-	-	_	3,056,025	155 665	- 155 665	3,056,025
1.467.942 38.581.292 277.010 2.406.675 4.9026.019	6,293,100	19,216,017	5,274,671	189,000	10,508,934	47,037		29,388,275	85,959,216			
2,406,675 49,026,019	1,467,942 38,581,292											
	2,406,675											
			İ									

APPENDIX II

Coefficients based on Input - output tables in 2011, thsd.manat, Azerbaijan х8 х9 x10 x11 x12 x13 x14 x15 x16 x17 x18 x19 x20 x21 x22 x23 x24 x25 x26 x27 x28 x29 x30 x31 x32 х6 x5 0.236 0.000 0.025 0.160 0.067 0.150 0.187 0.219 0.003 0.000 0.004 0.000 0.000 х3 0.000 0.008 0.000 0.005 x5 0.000 0.000 0.354 0.028 0.258 0.000 0.001 0.267 0.020 0.035 0.001 0.000 0.001 х7 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.001 0.000 0.055 0.000 0.025 0.163 0.109 0.006 х8 0.001 x9 0.001 0.000 0.064 0.001 0.001 0.259 0.006 0.000 0.000 0.000 0.000 0.000 0.006 0.001 x10 0.000 0.000 0.013 x11 0.300 x12 0.000 0.003 0.000 0.000 0.001 0.119 0.356 0.009 0.000 0.001 0.000 x13 0.000 0.000 0.000 0.001 0.001 0.000 0.000 0.002 0.000 0.000 0.023 0.000 0.002 0.086 0.001 0.001 0.001 0.007 0.000 0.000 0.002 0.005 0.001 0.000 0.000 x14 0.000 0.000 0.000 0.000 0.002 0.060 0.323 0.000 x15 0.000 0.000 0.000 0.000 0.002 0.000 0.000 0.388 0.001 0.003 0.003 0.000 0.000 0.000 0.001 0.001 0.001 0.067 x16 0.000 0.001 0.002 0.000 0.000 0.002 0.000 0.004 0.043 0.106 0.000 0.003 0.021 0.002 0.242 0.253 0.000 0.001 0.000 0.002 0.002 0.000 0.002 0.001 0.000 0.000 0.000 0.002 0.008 0.000 x17 0.000 0.000 0.003 0.000 0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.001 0.000 0.038 0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.008 0.022 x18 0.029 0.026 0.048 0.003 0.004 0.035 0.012 0.007 0.004 0.004 0.001 0.006 0.002 0.007 0.027 0.137 0.156 0.001 0.001 0.019 0.005 0.000 0.002 0.001 0.002 0.010 0.001 0.003 x19 0.004 0.000 0.001 0.004 0.017 0.009 0.001 0.009 0.000 0.013 0.052 0.011 0.007 0.003 0.107 0.048 0.072 0.038 0.030 0.058 0.038 0.009 0.002 0.126 0.032 0.023 0.012 x20 0.000 0.014 0.000 0.000 0.000 0.108 0.000 0.001 x21 0.002 0.000 0.001 0.002 0.004 0.155 0.011 0.052 0.041 0.205 0.018 0.020 0.330 0.010 0.003 0.016 0.017 0.003 0.000 0.015 0.057 0 185 0.000 x22 0.002 0.009 0.000 0.000 0.003 0.093 0.004 0.003 0.141 0.002 0.002 0.000 0.000 0.006 0.000 0.009 0.179 0.005 0.004 0.049 0.000 0.001 0.018 0.000 0.007 0.000 0.001 0.023 0.002 0.001 0.003 0.002 0.001 0.007 0.018 x23 0.001 0.001 0.005 0.006 0.000 0.001 0.002 0.003 0.017 0.009 0.059 0.192 0.060 0.101 0.095 0.004 0.003 0.001 0.001 0.002 0.000 0.000 0.002 0.000 0.000 0.005 0.003 0.002 0.001 0.003 0.016 0.007 0.040 0.029 0.000 0.001 0.015 0.000 0.001 0.000 0.000 0.001 0.003 0.000 0.000 0.004 0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.171 0.002 0.002 0.008 0.012 0.000 0.040 0.033 0.004 0.000 0.012 0.000 0.014 0.001 0.001 0.001 0.001 0.001 0.000 0.003 0.008 0.002 0.004 0.080 0.414 0.016 0.008 0.001 0.000 0.063 0.077 0.006 0.002 0.003 0.028 0.000 0.002 0.000 0.012 0.009 0.029 0.009 0.005 0.012 0.037 0.035 0.001 0.025 0.000 x28 0.000 0.002 0.001 0.002 0.001 0.011 0.000 0.000 0.000 0.003 0.020 0.001 0.000 0.000 0.002 0.001 0.000 0.002 0.005 0.006 0.011 0.000 0.000 0.003 0.000 0.001 0.015 0.092 0.002 0.005 x30 0.000 0.000 0.000 0.001 0.000 0.001 0.004 0.001 0.000 0.001 0.000 0.000 0.009 0.303 0.002 0.000 0.003 0.000 0.000 0.002 0.002 0.000 0.000 0.002 0.000 0.000 0.004 0.000 0.005 0.001 0.118 0.003 0.007 0.000 0.000 0.001 0.004 0.001 0.003 0.001 0.001 0.000 0.000 0.017 x31 0.000 x32 0.001 0.000 0.000 0.001 0.011 0.013 0.005 0.001 0.001 0.011 0.023 0.013 0.000 0.001 0.001 0.002 0.021 0.014 0.000 0.018 0.371 0.000 0.031 0.001 0.040 0.005 0.027 0.016 0.004 0.008 0.013 0.017 0.007 0.011 0.033 0.031 0.102 0.037 0.025 0.007 0.011 0.002 0.005 0.012 0.013 0.003 x33 0.041 0.001 0.039 0.018 0.137 0.011 0.018 x34 0.001 0.011 0.005 0.000 0.005 0.001 0.001 0.003 0.007 0.000 0.001 0.002 0.003 0.004 0.000 0.001 0.001 0.001 0.000 0.001 0.002 0.018 0.001 0.000 0.001 0.001 0.000 0.001 0.000 0.001 x35 0.001 0.000 0.002 0.001 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.003 0.000 0.000 0.000 0.000 0.000 x36 0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.003 0.000 0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 x37 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 x38 0.018 0.021 0.018 0.004 0.001 0.024 0.002 0.007 0.001 0.000 0.007 0.001 0.022 0.010 0.024 0.007 0.001 0.003 0.027 0.001 0.002 0.003 0.014 0.001 0.009 0.003 x39 0.025 0.004 0.015 0.000 0.024 0.047 0.003 0.090 0.016 0.023 0.024 0.035 0.025 0.006 0.012 0.012 0.013 0.019 0.033 0.015 0.017 0.028 0.012 0.009 0.011 0.247 0.004 0.063 0.008 0.003 x40 0.063 0.010 0.038 0.004 0.061 0.039 0.074 0.108 0.030 0.060 0.061 0.069 0.062 0.015 0.032 0.031 0.038 0.050 0.083 0.035 0.045 0.073 0.025 0.023 0.026 0.011 0.011 0.008 0.044 0.021 0.002 x41 0.000 0.001 0.000 0.000 0.001 0.003 0.004 x42 0.000 0.000 0.000 0.000 0.000 0.001 0.003 0.000 0.001 0.000 0.001 0.001 0.000 0.000 x43 0.001 0.007 0.000 0.064 0.001 0.004 0.007 0.000 0.050 0.009 0.001 0.001 0.002 0.003 0.000 0.001 0.000 0.000 0.018 0.001 0.000 x44 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.002 x45 0.001 0.002 0.012 0.000 0.000 0.003 0.002 0.000 0.001 0.001 0.005 0.001 0.000 0.000 0.003 0.000 0.000 0.001 0.000 0.000 0.000 0.010 0.001 0.001 x46 0.000 0.001 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.002 0.001 0.000 0.000 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.003 0.001 x47 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 x48 0.006 v49 x50 0.000 0.001 0.004 0.000 0.001 0.000 0.000 0.001 0.002 0.001 0.001 0.002 0.005 0.001 0.000 0.000 0.001 0.005 0.000 0.000 0.000 0.003 0.001 0.001 0.001 0.006 0.000 0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.002 x51 0.000 0.000 0.000 0.000 0.000 0.002 0.000 0.004 0.000 0.000 0.000 0.002 0.002 0.022 0.011 0.042 0.014 0.004 0.045 0.003 0.000 0.004 0.001 0.000 0.000 0.006 0.067 0.006 0.003 0.003 0.001 0.004 0.002 0.003 0.000 0.000 0.004 0.005 0.001 0.000 0.002 0.003 0.006 0.007 0.004 0.000 0.003 0.007 0.008 0.041 0.001 0.000 0.002 0.031 0.004 0.002 0.000 0.004 0.001 0.001 0.001 0.004 0.000 0.007 0.000 0.017 0.000 0.000 0.017 0.020 0.009 0.010 0.007 0.007 0.081 0.002 0.035 0.037 0.030 0.001 0.025 0.015 0.066 0.009 0.003 0.001 0.004 0.078 0.003 0.012 0.005 0.029 0.005 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.017 0.000 0.000 0.001 0.018 0.000 x59 0.000 0.000 0.002 0.000 0.068 0.006 0.000 0.000 0.001 0.015 0.006 0.071 0.057 x60 0.005 0.002 0.001 0.000 0.001 0.000 0.002 0.003 0.012 0.000 0.003 0.009 0.000 0.000 0.001 0.000 0.022 x61 0.000 0.002 0.000 0.002 0.033 0.000 0.003 0.006 0.001 0.000 0.001 0.002 0.001 0.000 0.000 0.000 0.000 0.000 0.001 0.001 0.041 0.004 0.000 0.004 x62 0.000 0.001 0.000 0.000 0.004 0.000 0.000 0.000 0.336 x63 0.000 0.000 x64 0.000 0.004 0.000 0.000 0.001 0.002 0.001 0.001 0.000 0.001 0.004 0.000 0.000 0.001 0.000 0.000 0.000 0.001 0.000 0.005 0.002 0.004 0.000 0.000 0.007 x65 0.000 0.001 0.000 0.005 0.000 x66 0.000 0.000 0.000 x67 0.000 0.003 0.001 0.000 0.055 0.004 0.006 0.000 0.013 0.001 0.006 0.000 0.006 x68 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 x69 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.001 x70 0.000 0.000 0.000 0.000 0.000 0.003 0.001 0.002 0.000 0.001 0.000 0.001 x71 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.005 x72 0.001 0.000 - 0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.003 x73 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.001 0.000 0.001 0.000 0.000 0.000 0.002 0.001 x74 0.000 0.000 0.000 0.001 x75 0.000 x76 0.000 0.000 0.000 x77 x78 0.000 0.000 0.000 0.000 0.000 x79 0.000 0.000 0.003 0.000 0.000 0.000 0.000 0.000 x80 0.000 0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.003 0.005 0.000 0.000 0.000 0.001 0.000 0.001 0.000 0.000 0.001 0.000 0.000 0.003

x33	x34	x35 0.000	x36	x37	x38	x39	0.000	x41	x42	x43	x44	x45 0.001	x46 0.008	x47	x48	x49	x50	x51	x52	x53	x54	x55	x56	x57	x58	x59	x60 0.000	x61	x62	x63	x64
-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.199	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	- 0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.000	-	0.000	0.000	-	0.010	0.000	0.000	-	-	0.000	-	-	-	-	-	-	0.000	-	-	-	0.000	-	0.000	-	-	0.001	-	-	-	-	-
0.000	-	0.000	0.000	-	0.000	0.000	0.000	-	-	0.000	-	0.140	0.015	-	0.001	-	-	-	-	0.000	-	-	0.000	-	0.000	0.000	0.000	0.000	-	0.000	
-	-	-	-	-	-	0.000	-	-	-	-	-	0.008	0.004	-	0.003	-	-	-	-	-	-	-	-	-	-	-	0.000	0.000	-	-	
0.000	-	-	-	-	0.000	-	0.000	0.004	0.000	0.000	0.000	0.003 0.001	0.001	-	-	0.000	-	-	-	-	-	-	0.000	-	-	0.000	0.000	-	-	0.000	-
0.000	0.000	0.002	0.001	0.000	0.000	0.000	0.000	-	0.001	0.000	0.000	-	0.000	-	-	-	0.000	-	-	0.000	-	-	0.000	-	0.003	0.000	0.000	-	-	0.000	-
0.000	0.000	0.000	0.000	-	0.000	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-
0.000	0.000	0.001 0.002	0.000	-	0.009	0.000	0.000	0.000	0.002	0.000	0.002	0.000 0.001	0.000	0.039	-	0.002	0.000	0.004	0.001	0.000	0.002	0.029	0.000	0.000	0.000	0.005	0.000	0.000 0.001	0.001	0.000	0.000
0.000	0.000	0.001	0.000	-	0.000	0.000	0.000	0.000	0.019	0.000	0.007	0.001	0.000	0.121	0.001	0.001	0.001	0.007	0.001	0.000	0.001	0.014	0.000	0.001	0.001	0.000	0.000	0.004	0.000	0.000	0.000
0.003	0.049	0.017	0.001	0.075	0.013	0.037	0.037	0.172	0.139	0.028	0.007	0.020	0.001	0.003	0.016	0.002	0.002	0.001	0.008	0.007	0.001	-	0.018	0.012	0.007	0.005	0.001	0.000	-	0.000	0.019
0.001	0.004	0.008	0.000	0.000	0.006	0.000	0.000	-	0.000	0.001	-	0.004	0.000	-	-	0.000	0.000	-	-	0.000	-	0.000	0.000	-	-	0.005	0.002	0.000	0.002	0.000	-
0.005	0.008	0.005	0.001	-	0.010	0.000	0.001	-	-	0.000	0.000	0.000	-	-	-	0.000	0.000	-	-	-	-	-	0.000	-	-	0.001	0.000	0.035	-	0.000	
0.000	0.002	0.001	0.003	-	0.033	0.000	0.000	-	-	0.001	-	0.000	0.000	-	-	0.000	0.000	-	0.001	-	0.000	-	0.000	-	-	0.006	- 0.000	0.000	-	-	
0.002	0.070 0.007	0.002	0.001	-	0.047	0.000	0.001	-	-	0.001 0.001	-	-	-	-	-	0.000	0.000	-	0.001	-	-	-	0.000	-	0.000	0.002 0.025	0.000	0.000	-	0.000	-
0.007	0.002	0.001	0.001	-	0.001	0.000	0.000	0.000	-	0.003	0.014	0.006	0.000	0.008	0.096	0.019	0.007	0.013	0.004	0.000	0.001	0.006	0.081	0.015	0.001	0.002	0.001	0.000	0.000	0.000	0.001
0.011	0.017	0.002	0.003	- 0.005	0.006	0.015	0.001	0.046	0.005	0.002	0.005	0.001	0.001	0.002	0.005	0.006	0.004	0.002	0.119	0.000	0.000	0.002	0.097	-	0.000	0.001	0.000	0.000	0.000	0.000	0.000
0.005	0.030	0.002 0.009	0.029	0.005	0.007 0.001	0.001 0.010	0.003	0.211	0.001	0.056 0.036	0.004	0.001 0.001	0.001	0.009 0.001	0.000	0.003 0.001	0.003	0.087	0.002	0.000	0.000	0.019	0.000	-	0.005	0.015 0.013	0.002 0.001	0.000	0.000	0.000	0.030
0.003	0.000	0.002	-	-	0.001	0.010	0.005	0.055	0.051	0.085	0.000	0.000	0.001	-	-	0.002	0.001	0.002	-	0.000	0.000	0.011	0.000	-	-	0.003	0.000	-	-	0.000	0.000
0.000	0.000	0.002 0.000	0.001	-	0.000	0.000	0.000	0.000	0.001	0.000	0.003	0.011 0.000	0.001	0.006	0.028	0.002	0.000 0.001	0.002	0.000	0.002 0.000	0.001	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.004	0.000	0.006	0.000	0.001	0.002	0.000	0.005	0.003	-	0.000	0.008	0.000	0.000	0.000	0.001	0.000	0.001	0.004	0.007	0.000	0.000	0.005	0.000	-	-	0.000	0.000	0.000	0.000	0.000	0.000
0.023	0.144	0.020	0.014	0.056	0.005	0.001	0.012	0.002	0.001	0.001	0.003	0.035	0.011	0.003	0.002	0.008	0.005	0.004	0.006	0.001	0.001	0.036	0.010	0.003	0.004	0.003	0.003	0.001	0.001	0.000	0.001
0.000	0.091	0.001 0.003	0.006	0.002	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.001	0.001	0.000 0.001	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.001	0.000	0.001	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.013	0.162	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	-	0.000	0.000	0.000	0.000	0.000	0.000	-	0.002	0.000	0.000	0.000	0.000	0.000	-	0.000	-
0.000	0.000	0.015	0.001	0.002	0.000	0.000	0.000	-	-	-	0.000	0.000	0.000	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	0.000	0.000	-	0.000	0.000
0.012	0.139 0.007	0.152 0.004	0.103	0.005 0.121	0.158	0.008	0.002	0.002 0.019	0.048 0.031	0.011 0.059	0.013 0.016	0.027 0.017	0.030	0.015 0.008	0.005	0.001 0.001	0.008	0.011 0.002	0.010 0.053	0.069 0.003	0.006	0.008	0.025 0.005	0.002 0.001	0.153 0.001	0.019 0.006	0.002	0.006	0.000	0.000	0.003
0.001	0.010	0.004	0.003	0.018	0.017	0.007	0.007	0.013	0.031	0.010	0.006	0.042	0.009	0.020	0.012	0.002	0.001	0.002	0.008	0.003	0.001	0.002	0.013	0.001	0.003	0.011	0.001	0.002	0.000	0.000	0.002
0.000	0.007	-	-	-	0.003	-	0.000	0.016	-	-	-	-	-	-	-	0.000	0.000	0.000	0.000	-	0.000	-	-	-	-	0.002	-	-	-	-	-
0.000	0.016	0.000	0.000	-	0.000	0.000	0.000 0.015	0.000 0.014	0.014	0.000 0.011	0.003	0.003	0.000	0.000	0.000	0.000 0.001	0.000	0.000	-	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000 0.013	-	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.270	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.002	0.000	0.000	0.003	0.001	0.002	0.001	0.003	0.007	0.002	0.004	0.068	0.002	0.002	0.000	0.000	0.001	0.014	0.012	0.001	0.002	0.000	0.002	0.001	0.002	0.017	0.003	0.002	-	0.000	0.002
0.000	0.000	0.000	0.000	-	0.000	0.001	0.000	0.000	0.001 0.014	0.002	0.001	0.016 0.000	0.001	0.001 0.010	0.000	0.000	0.000	0.001 0.002	0.001	0.000	0.000 0.001	0.001	0.000	0.000	0.003	0.004	0.000	0.000	0.000	0.000	0.001
-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	-	0.005	0.011	-	-	-	-	-	-	-	-	-	-	-	0.000	-	0.000	-
- 0.001	- 0.003	- 0.001	- 0.000	0.000	0.000	- 0.002	- 0.001	- 0.000	- 0.001	0.000	0.008	0.001	- 0.001	- 0.024	0.090	0.068 0.017	0.000	- 0.021	- 0.034	- 0.014	- 0.001	- 0.001	0.000	- 0.001	- 0.003	- 0.003	0.000	0.000	0.000	0.000	0.007
0.001	0.002	0.001 0.000	0.000	-	0.000	0.003	0.001	0.000	0.001	0.001 0.000	0.008	0.018 0.001	0.001	0.024 0.002	0.016	0.000	0.095	0.021 0.002	0.031	0.014 0.000	0.001 0.000	0.001	0.013 0.004	0.001 0.159	0.003	0.003	0.001	0.000	-	0.000	0.007
0.000	-	-	-	-	0.000	0.001	0.000	-	-	0.000	0.022	0.004	0.001	0.113	-	0.000	0.002	0.119	0.018	0.000	0.002	0.092	0.005	0.002	0.006	0.002	0.000	0.001	0.000	0.000	
0.002	0.003	0.002 0.000	0.002	0.000	0.010 0.005	0.035	0.003	0.005 0.006	-	0.001 0.001	0.003 0.001	0.010 0.004	0.006	0.007 0.001	-	0.003 0.002	0.002	0.002 0.013	0.002	0.008	0.071 0.001	0.071 0.001	0.004	0.001 0.000	0.010 0.001	0.008	0.002 0.000	0.342 0.001	0.000	0.000	0.034
0.002	0.000	0.000	0.002	0.004	0.003	0.004	0.002	0.000	0.000	0.001	0.000	0.004	0.001	0.001	-	0.002	0.002	0.000	0.002	0.003	0.001	0.001	0.000	0.000	0.001	0.004	0.000	0.000	0.000	0.000	0.009
0.005	0.001	0.093	0.016	0.002	0.010	0.025	0.013	0.009	0.075	0.009	0.013	0.031	0.006	0.046	0.019	0.015	0.007		0.005	0.108	0.018	0.008	0.008	0.005	0.002	0.030	0.001	0.004	0.000	0.000	0.067
0.000	0.000	0.000	-	-	0.000	0.000	0.000	0.000	-	0.000 0.013	0.000	0.000	0.000	0.000	0.000	0.000 0.005	0.000	0.000	0.000	0.001	0.000	-	0.000	0.001 0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.031	0.003	0.000	-	-	0.077	0.000	0.002	-	-	0.001	-	0.001	-	-	-	0.040	0.001	0.039	-	-	-	-	0.000	0.139	0.000	0.190	0.024	0.056	-	-	-
0.000	0.000	- 0.001		-	0.019	- 0.060	0.000	- 0.000	- 0.004	- 0.001	- 0.000	- 0.003	0.000	0.040	- 0.000	- 0.021	0.023	- 0.070	0.004	0.000	- 0.016	- 0.001	- 0.000	- 0.000	- 0.001	0.042	0.006	0.001	-	0.000	- 0.001
0.000	0.000	0.001 0.011	-	-	0.000	0.060	0.000	0.000 0.115	0.004	0.001 0.004	0.006 0.027	0.003	0.004	0.004 0.041	0.000	0.021	0.049	0.079	0.000	0.007 0.001	0.016	0.001	0.006	0.000 0.019	0.001	0.002 0.016	0.001	0.005	0.003	0.000	0.001
-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-
0.000	0.000	0.000	-	-	0.002 0.003	0.004	0.001	0.001	0.001	0.001	0.002	0.007 0.001	0.001	0.005	0.020	0.004	0.003	0.001	0.001 0.015	0.010	0.000	0.000	0.001	0.001	0.000	0.001 0.007	0.000	0.001	0.000	0.000	0.008
-	-	-	-	-	0.003	0.000	0.000	-	0.002	0.000	-	0.001	-	-	-	-	-	-	- 0.015	0.000	0.000	-	-	-	-	0.007	-	0.000	-	0.000	-
0.002	-	0.017	-	-	0.000	0.001	0.000	-	-	0.004	0.004	0.000	0.000	-	-	-	0.002	-	0.017	0.005	-	-	0.001	0.003	0.012	-	-	-	-	-	-
0.000	0.000	0.000	0.000	-	0.000	0.000 0.011	0.000 0.001	-	-	0.000	0.000 0.007	0.001 0.000	0.000	-	0.000	0.000 0.001	0.000	0.000	0.000	0.000 0.001	0.000	-	0.001 0.000	0.005	0.001	0.000 0.012	-	0.000 0.004	0.000	-	0.001
0.000	0.000	-	-	-	0.000	0.000	0.001	0.000	-	-	0.007	0.000	0.000	0.001	-	0.001	0.000	0.001	-	0.001	0.000	-	- 0.000	0.003	- 0.001	0.012	0.001	0.004	-	-	0.001
0.000	-	-	-	-	0.000	0.000	-	0.000	-	0.002	0.000	-	-	0.000	-	-	0.000	-	0.001	0.000	0.001	-	-	0.000	0.000	0.001	0.000	0.000			
0.000	-	0.001 0.000	-	-	0.000	0.000	0.000	-	0.000	0.001 0.001	0.000	0.000	0.000	0.001	0.003	0.000 0.004	0.000 0.001	0.000	0.001	0.000 0.001	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	-
0.000	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	0.000	
-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.000	-	-	0.002	0.000	-	-	-	-	-	-	-	-	-	0.000	0.000	-	-	-
-	-	-	-	-	-	-	0.000	-	-	-	-	0.000	-	-	-	-	-	-	-	0.000	-	-	-	0.000	-	0.000	0.000	0.000	-	0.000	-
-	-	-	-	-	0.000	-	0.000	-	-	-	-	0.002	-	-	-	-	0.000	-	-	0.011	-	-	-	0.000	0.000	0.000	-	0.000	-	-	-
0.000	0.000	-	-	-	0.000	0.000	0.000	-	0.004	0.001	0.000	0.000	-	0.000	0.067	0.003	0.011	0.003	0.000	0.000	0.000	0.001	0.000	0.001	0.001	0.000	0.000	0.000	-	0.000	0.003
		0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.002	0.001	0.000	0.000	- 0.000	0.002	0.000	0.000	0.003	0.000	0.000	0.000	0.007	0.001	0.001	0.000	0.001	0.002	0.000	-	0.000	0.000
0.000	0.000	-	-	0.000	0.001	0.000	0.000	-	-	0.000	0.006	0.009	0.001	0.006	-	0.000	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.000	-	-	0.000	-	0.000	0.000	0.003

x65	x66	x67	x68	x69	x70	x71	x72	x73	x74	x75	x76	x77	x78	x79	x80	x81
-	0.000	-	0.001	0.000	0.000	0.000	0.000	-	-	-	0.124	-	0.000	0.000	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1
_	-	_	_	_	-	-	0.000	-	-	-	-	-	-	-	-	-
	-	_	-	_	-	-	-	-		-	-	-	-	_	-	
	-	-	_	-	-	-	-	-	_	-	-	-	-	-	-	-
	-	-	-	-	0.000	-	-	-	-		-	-	-	0.000	-	0.003
-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-
-	0.002	-	0.000	0.007	0.002	0.001	0.016	0.015	0.002	0.000	0.000	-	0.003	0.005	-	0.000
-	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000	0.000	-	-	0.000	0.001	-	0.000
-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	0.000	-	-
-	0.000	-	-	-	0.000	0.000	0.001	-	0.000	0.003	-	-	-	0.000	-	-
-	-	0.053	0.001	0.000	0.001	0.000	0.000	0.017	-	-	0.000	-	0.004	0.000	-	0.000
	-	- 0.033	- 0.001	-	0.001	- 0.000		- 0.017			- 0.000	-	0.000	- 0.000	-	- 0.000
							0.000			0.000						
-	-	-	0.000	0.003	0.000	-	0.000	-	-	0.000	0.000	-	-	-	-	0.005
0.016	0.001	0.002	0.001	0.006	0.003	0.000	0.001	0.010	0.000	0.002	0.001	0.000	0.000	0.004	0.002	0.001
0.001	0.000	-	0.002	0.048	0.002	0.007	0.002	0.003	0.000	0.003	0.000	-	0.003	0.002	0.000	0.000
0.021	0.000	0.036	0.010	0.007	0.003	0.001	0.006	0.258	0.000	0.000	0.001	0.000	0.002	0.004	0.000	0.001
-	0.000	-	0.038	0.000	0.000	0.000	0.002	0.002	0.000	0.003	-	0.000	0.000	-	-	0.010
_	-	_	0.059	0.001	0.002	0.000	0.079	0.037	0.000	-	0.000	-	0.000	0.001	-	0.000
_	-	0.001	0.000	0.000	0.000	-	0.000	-	-	0.000	-	-	0.000	-	-	0.012
	0.001	- 0.001	0.000	0.000		-	0.000		_				0.000	0.002		
					0.000			-	-	0.001	0.000	-			-	0.010
-	0.001	0.005	0.005	0.000	-	-	0.000	-	-	-	-	-	0.000	-	-	0.019
-	-	0.003	0.000	0.000	0.000	0.001	0.000	-	-	-	0.002	-	0.000	0.000	0.000	0.010
-	0.010	0.030	0.003	0.001	0.005	0.002	0.012	0.009	0.000	0.006	0.003	0.011	0.009	0.003	0.020	0.005
-	0.006	0.001	0.027	0.001	0.002	0.000	0.003	-	0.000	0.002	0.000	0.000	0.001	0.000	0.007	0.003
-	0.000	0.005	0.003	0.001	0.054	0.002	0.005	-	-	0.001	0.015	0.000	0.002	0.012	0.108	0.002
_	-	0.007	0.156	0.001	0.000	0.001	0.013	0.029	-		0.000	-	0.000	0.006	-	0.000
	0.000	0.007	0.002	-	0.004	0.001	0.013	0.023		0.000	0.000	-	- 0.000	0.000	-	0.000
	-															
0.043	0.002	0.035	0.010	0.000	0.004	0.005	0.001	0.007	0.000	0.017	0.000	0.001	0.004	0.002	0.002	0.001
-	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.033	0.000	-	0.000	0.000	0.000	0.000
-	0.000	0.000	0.003	0.000	0.000	0.000	0.000	-	-	-	-	0.001	0.000	0.005	0.000	0.000
0.000	0.010	0.002	0.004	0.003	0.005	0.006	0.022	0.067	0.000	0.004	0.002	0.000	0.006	0.004	0.002	0.001
0.000	0.001	0.003	0.001	0.000	0.001	0.002	0.008	0.002	0.000	0.003	0.021	0.000	0.001	0.000	0.000	0.000
-	0.000	0.001	0.000	0.000	0.000	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-	0.000	0.000	0.000	0.001	0.000	0.000	0.001	-	0.000	0.001	0.000	-	0.000	0.000	0.000	0.000
									-	0.001						
-	0.000	-	0.002	0.000	0.000	0.000	0.000	-			0.000	-	0.000	0.000	0.000	0.000
-	0.000	0.006	0.012	0.002	0.147	0.037	0.122	-	0.003	0.070	0.020	0.028	0.004	0.009	0.004	0.111
0.004	0.001	0.020	0.003	0.006	0.003	0.002	0.004	0.028	0.000	0.002	0.011	0.000	0.001	0.003	0.018	0.004
0.011	0.004	0.021	0.008	0.011	0.002	0.003	0.008	0.070	0.001	0.004	0.028	0.001	0.004	0.004	0.005	0.005
-	-	-	-	-	0.002	-	0.000	-	-	-	-	-	-	-	-	-
-	0.000	0.002	0.001	0.001	0.000	0.000	0.000	-	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000
_	0.003	0.013	0.018	0.001	0.000	0.001	0.001	-	-	-	-	0.001	-	0.001	-	0.001
_	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	-															
-	0.019	0.077	0.008	0.003	0.007	0.006	0.010	-	0.000	0.001	0.000	0.011	0.128	0.008	0.003	0.001
-	0.004	0.007	0.001	0.001	0.001	0.003	0.002	-	0.000	0.082	0.000	0.000	0.013	0.004	0.001	0.001
-	0.000	0.003	0.000	0.006	0.001	0.001	0.000	-	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.000
-	-	-	-	-	0.001	-	0.000	-	-	-	-	-	-	-	-	0.000
-	-	-	-	0.000	0.000	-	0.000	-	-	-	-	-	-	-	-	0.010
-	0.006	0.015	0.003	0.011	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.003	0.001	0.003	0.000	0.003
	0.002	0.000	0.006	0.017	0.004	0.001	0.000		0.000	0.000	0.000	0.003	0.000	0.000	0.003	0.001
	0.003	-	0.001	0.096	0.002	0.000		-	0.000	-	-	0.000	0.000	0.000	0.000	0.000
							0.000									
0.000	0.032	0.008	0.002	0.018	0.058	0.002	0.015	0.005	0.000	0.000	0.000	0.001	0.003	0.010	0.014	0.004
-	0.012	0.014	0.001	0.005	0.002	0.003	0.002	0.000	0.000	0.000	0.000	0.001	0.005	0.002	0.015	0.001
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000
-	0.066	0.126	0.011	0.002	0.029	0.008	0.007	0.037	0.003	0.004	0.006	0.014	0.028	0.001	0.004	0.052
-	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000
-	0.001	0.010	-	0.012	0.001	0.000	0.001	-	-	-	-	0.180	-	0.000	0.000	0.000
-	-	-	-	0.110	0.000	-	-	-	-	-	-	-	-	-	0.104	0.004
	-	-	_	0.000	0.022	0.007	0.013	-	_	<u> </u>	-	-	_	0.087	-	0.002
0.001	0.016	0.029	-	0.000	0.022	0.007	0.013	0.015	0.000	-	-	0.031	0.014	0.007	0.001	0.002
																-
0.000	0.011	-	0.004	0.000	0.016	0.000	0.003	-	-	0.000	-	-	0.006	0.047	0.000	0.003
-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-
0.010	0.005	0.009	0.000	0.003	0.001	0.001	0.000	0.000	0.002	0.001	0.000	-	0.003	0.005	0.000	0.003
-	-	-	-	0.003	0.023	-	0.001	-	0.001	-	-	-	-	0.009	-	-
-	0.017	-	-	0.001	-	-	0.000	-	-	-	-	-	0.001	0.000	-	0.001
-	-	0.112	-	-	0.004	0.000	0.005	-	-	-	-	-	0.000	-	0.000	-
		0.001	0.000	0.000	0.004	0.000	0.003	-	0.000	0.000	-	-	0.000	0.000	-	0.000
	U 000	I U.UUI	0.000													
-	0.000			0.000	0.000	0.000	0.001	-	0.000	-	0.044	-	-	0.000	-	0.002
-	0.004	0.092			e		. 0.001	-	0.000	-	0.000	-	0.000	0.017	-	0.000
		0.092 0.001	0.000	0.000	0.001	0.005	0.001									
-	0.004	0.092			0.001 0.003	0.005 0.006	0.001	-	-	0.000	0.000	-	0.000	0.000	0.000	0.000
-	0.004	0.092 0.001	0.000	0.000					0.000	0.000	0.000	-	0.000 0.003	0.000 0.001	0.000	0.000
	0.004	0.092 0.001 -	0.000 0.000	0.000 0.000	0.003	0.006	0.004	-								
- - - 0.000	0.004 - - - - 0.000	0.092 0.001 - 0.001 0.014	0.000 0.000 0.001 0.000	0.000 0.000 0.000 0.000	0.003 0.000 0.000	0.006 0.000 0.003	0.004 0.005 0.003	- - 0.001	0.000 0.003	-	-	-	0.003 0.014	0.001 0.013	-	0.000
- - - 0.000 - -	0.004 - - - - 0.000	0.092 0.001 - 0.001 0.014	0.000 0.000 0.001 0.000	0.000 0.000 0.000 0.000	0.003 0.000 0.000 0.000	0.006 0.000 0.003	0.004 0.005 0.003	- - 0.001 0.001	0.000 0.003 0.000	- - -	0.000	- - -	0.003 0.014	0.001 0.013 0.001	- - -	0.000 0.000 -
- - - 0.000 - - -	0.004 - - - 0.000 - -	0.092 0.001 - 0.001 0.014 -	0.000 0.000 0.001 0.000 -	0.000 0.000 0.000 0.000 -	0.003 0.000 0.000 0.000 0.000	0.006 0.000 0.003 - 0.000	0.004 0.005 0.003 - - 0.000	- 0.001 0.001 0.002	0.000 0.003 0.000 0.000	- - - 0.000	- 0.000 - 0.000	- - -	0.003 0.014 - 0.002	0.001 0.013 0.001 0.015	- - -	0.000 0.000 - -
- - 0.000 - - - -	0.004 - - - 0.000 - -	0.092 0.001 - 0.001 0.014 - -	0.000 0.000 0.001 0.000 - - 0.000	0.000 0.000 0.000 0.000 - - 0.000	0.003 0.000 0.000 0.000 0.000 0.000	0.006 0.000 0.003 - 0.000 0.001	0.004 0.005 0.003 - - 0.000	- 0.001 0.001 0.002	0.000 0.003 0.000 0.000 0.000	- - - 0.000	- 0.000 - 0.000 0.002	- - - -	0.003 0.014 - 0.002 0.000	0.001 0.013 0.001 0.015 0.005	- - - -	0.000 0.000 - -
- - - 0.000 - - -	0.004 - - 0.000 - - -	0.092 0.001 - 0.001 0.014 - -	0.000 0.000 0.001 0.000 -	0.000 0.000 0.000 0.000 -	0.003 0.000 0.000 0.000 0.000 0.001	0.006 0.000 0.003 - 0.000 0.001 0.000	0.004 0.005 0.003 - - 0.000	- 0.001 0.001 0.002 -	0.000 0.003 0.000 0.000 0.000	- - 0.000 - -	- 0.000 - 0.000 0.002 -	- - - -	0.003 0.014 - 0.002 0.000 0.000	0.001 0.013 0.001 0.015 0.005	- - -	0.000 0.000 - - - -
- - - 0.000 - - - -	0.004 - - - 0.000 - -	0.092 0.001 - 0.001 0.014 - -	0.000 0.000 0.001 0.000 - - 0.000	0.000 0.000 0.000 0.000 - - 0.000	0.003 0.000 0.000 0.000 0.000 0.000	0.006 0.000 0.003 - 0.000 0.001	0.004 0.005 0.003 - - 0.000	- 0.001 0.001 0.002	0.000 0.003 0.000 0.000 0.000	- - - 0.000	- 0.000 - 0.000 0.002	- - - -	0.003 0.014 - 0.002 0.000	0.001 0.013 0.001 0.015 0.005	- - - -	0.000 0.000 - -
- - 0.000 - - - - -	0.004 - - 0.000 - - -	0.092 0.001 - 0.001 0.014 - -	0.000 0.000 0.001 0.000 - - 0.000	0.000 0.000 0.000 - - 0.000	0.003 0.000 0.000 0.000 0.000 0.001	0.006 0.000 0.003 - 0.000 0.001 0.000	0.004 0.005 0.003 - - 0.000	- 0.001 0.001 0.002 -	0.000 0.003 0.000 0.000 0.000	- - 0.000 - -	- 0.000 - 0.000 0.002 -	- - - -	0.003 0.014 - 0.002 0.000 0.000	0.001 0.013 0.001 0.015 0.005	- - - - -	0.000 0.000 - - - -
- - 0.000 - - - - - -	0.004 - - - 0.000 - - - 0.001	0.092 0.001 - 0.001 0.014 - - - - 0.003	0.000 0.000 0.001 0.000 - - 0.000	0.000 0.000 0.000 0.000 - - 0.000	0.003 0.000 0.000 0.000 0.000 0.001 -	0.006 0.000 0.003 - 0.000 0.001 0.000 0.000	0.004 0.005 0.003 - - 0.000 - - - 0.000	- 0.001 0.001 0.002 - - 0.000	0.000 0.003 0.000 0.000 0.000 - 0.000	- - 0.000 - - -	- 0.000 - 0.000 0.002 - -	- - - - - - 0.226	0.003 0.014 - 0.002 0.000 0.000 0.011	0.001 0.013 0.001 0.015 0.005 - 0.020	- - - - -	0.000 0.000 - - - - -
- - 0.000 - - - - - - -	0.004 0.000 0.001 0.001 0.002	0.092 0.001 - 0.001 0.014 - - - - 0.003 0.006 0.004	0.000 0.000 0.001 0.000 - - 0.000 - - 0.000 0.000	0.000 0.000 0.000 0.000 - - 0.000 - - 0.000 0.000	0.003 0.000 0.000 0.000 0.000 0.001 - 0.000 0.000 0.000	0.006 0.000 0.003 - 0.000 0.001 0.000 0.000 0.000 0.000	0.004 0.005 0.003 - - 0.000 - - 0.000 - 0.000 0.003	- 0.001 0.001 0.002 - 0.000 0.000 0.001	0.000 0.003 0.000 0.000 0.000 - 0.000 0.000 0.000	- - 0.000 - - - - - 0.000	- 0.000 - 0.000 0.002 - - - 0.000	- - - - - 0.226 - 0.000	0.003 0.014 - 0.002 0.000 0.000 0.011 0.002 0.000	0.001 0.013 0.001 0.015 0.005 - 0.020 0.000 0.000	- - - - - - - - 0.000	0.000 0.000 - - - - - - - 0.000
- - 0.000 - - - - - -	0.004 - - 0.000 - - - 0.001	0.092 0.001 - 0.001 0.014 - - - 0.003 0.006	0.000 0.000 0.001 0.000 - - 0.000 - - 0.000	0.000 0.000 0.000 0.000 - - 0.000 - - 0.000	0.003 0.000 0.000 0.000 0.000 0.001 - 0.000 0.000	0.006 0.000 0.003 - 0.000 0.001 0.000 0.000 0.000	0.004 0.005 0.003 0.000 0.000 - 0.000	- 0.001 0.001 0.002 - - 0.000 0.001	0.000 0.003 0.000 0.000 0.000 - 0.000 0.000	- - 0.000 - - -	- 0.000 - 0.000 0.002 - -	- - - - - - 0.226	0.003 0.014 - 0.002 0.000 0.000 0.011 0.002	0.001 0.013 0.001 0.015 0.005 - 0.020 0.000	- - - - - -	0.000 0.000 - - - - - -

APPENDIX III

I-A matrix based on Input - output tables in 2011 х8 х9 x10 x11 x12 x13 x14 x15 x16 x17 x18 x19 x20 x21 x22 x23 x24 x25 x26 x27 x28 x29 x30 x31 x32 x33 x34 x35 x36 x6 0.764 - 0.000 - 0.025 - 0.160 | - 0.067 | - 0.150 | - 0.187 - 0.219 - 0.000 - 0.003 - 0.000 0.996 - 0.000 x3 - 0.000 0.992 - 0.000 1.000 - 0.005 - 0.199 x5 1.000 - 0.000 - 0.354 - 0.028 0.742 0.000 - 0.001 - 0.267 | - 0.020 0.965 - 0.001 - 0.001 x7 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.055 | - 0.000 - 0.000 | - 0.001 - 0.000 | - 0.000 - 0.000 0.025 - 0.163 0.891 0.001 - 0.006 0.000 x8 x9 - 0.001 | - 0.000 | - 0.064 - 0.001 - 0.001 0.741 | - 0.006 - 0.000 - 0.000 | - 0.000 | - 0.000 - 0.000 - 0.006 - 0.001 - 0.000 - 0.000 | - 0.000 x10 0.000 - 0.000 0.987 x11 0.700 x12 - 0.000 - 0.003 - 0.000 - 0.000 - 0.001 | 0.881 | - 0.356 | - 0.009 - 0.000 0.001 - 0.000 - 0.000 x13 - 0.000 | - 0.000 | - 0.000 - 0.001 0.001 - 0.000 - 0.000 - 0.002 | - 0.000 - 0.000 0.977 - 0.000 - 0.002 - 0.086 - 0.001 | - 0.001 - 0.001 - 0.007 - 0.000 - 0.000 - 0.002 0.005 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.002 - 0.001 - 0.000 x14 - 0.000 0.000 - 0.000 - 0.000 - 0.002 | - 0.060 | 0.677 0.000 - 0.000 - 0.000 | - 0.000 | - 0.000 x15 - 0.000 | - 0.000 - 0 000 - 0 000 | - 0 002 | - 0 000 | - 0 000 0.612 - 0 001 - 0 003 - 0 003 | - 0 000 | - 0 000 - 0 000 - 0 001 - 0 001 . 0 001 | - 0 067 - 0 000 - 0.001 - 0 000 x16 - 0.000 - 0.001 - 0.002 - 0.000 0.000 - 0.002 | - 0.000 - 0.004 | - 0.043 - 0.106 - 0.000 - 0.003 - 0.021 | - 0.002 0.758 - 0.253 - 0.000 - 0.001 - 0.000 - 0.002 | - 0.002 | - 0.000 - 0.002 | - 0.001 - 0.000 - 0.000 0.000 - 0.002 - 0.008 - 0.000 - 0.000 - 0.000 | - 0.002 - 0.000 x17 - 0.000 | - 0.000 | - 0.003 - 0.000 - 0.000 | - 0.000 - 0.000 | - 0.000 - 0.001 | - 0.000 - 0.000 | - 0.001 0.000 0.962 0.000 - 0.000 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.001 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.001 - 0.000 x18 - 0.029 - 0.026 - 0.048 - 0 003 - 0.004 | - 0.035 | - 0.012 | - 0.007 | - 0.004 - 0.004 | - 0.001 | - 0.006 | - 0.002 | - 0.007 - 0.027 | 0.863 | - 0.156 | - 0.001 | - 0.008 | - 0.022 | - 0.001 | - 0.019 | - 0.005 - 0.000 | - 0.002 | - 0.001 - 0.002 | - 0.010 | - 0.001 | - 0.003 | - 0.003 | - 0.049 | - 0.017 | - 0.001 - 0 075 x19 - 0.004 | - 0.012 | - 0.000 - 0.001 0.004 - 0.017 - 0.009 - 0 001 - 0.000 | - 0.013 - 0.052 - 0.007 - 0.003 0.893 - 0.048 - 0.072 - 0.038 - 0.030 - 0.058 - 0.038 - 0.009 - 0.002 - 0.032 - 0.023 0.001 - 0 004 | - 0 008 - 0.000 - 0.000 - 0.009 - 0.011 - 0.126 x20 - 0.000 - 0 000 - 0 000 - 0.000 0.892 0.000 - 0.001 - 0.000 | - 0.001 | - 0.000 - 0.014 x21 - 0.002 - 0.000 - 0 001 - 0 002 - 0.004 - 0 155 - 0.011 - 0.052 - 0.041 0.205 - 0.018 - 0 020 0.670 - 0.010 - 0.003 - 0.016 - 0.017 - 0.003 - 0 000 0.015 - 0.057 - 0.185 - 0.000 - 0.005 - 0.008 | - 0.005 - 0 001 x22 - 0.002 - 0.009 - 0.000 - 0.000 0.003 - 0.093 - 0.004 - 0.003 - 0.141 - 0.002 0.002 - 0.000 - 0.000 - 0.006 | 0.000 | - 0.009 | 0.821 | - 0.005 | - 0.004 | - 0.049 | - 0.000 | - 0.001 0.018 - 0.000 - 0.007 - 0.000 - 0.000 - 0.002 | - 0.001 | - 0.003 - 0.001 - 0.001 - 0.003 - 0.002 - 0.003 - 0.017 | - 0.009 0.002 - 0.001 - 0.007 - 0.018 - 0.001 0.005 - 0.006 | - 0.023 - 0.000 - 0.002 - 0.001 - 0.001 0.941 - 0.192 | - 0.060 0.101 - 0.095 - 0.002 - 0.070 | - 0.002 - 0.001 x24 - 0.001 - 0.004 - 0.002 | - 0.000 | - 0.003 0.001 0.000 - 0.002 - 0.000 - 0.000 - 0.005 0.003 - 0.002 - 0.001 0.997 - 0.016 0.007 0.029 - 0.000 - 0.001 - 0.015 - 0.001 - 0.007 | - 0.000 - 0.000 | - 0.000 | - 0.001 - 0.000 - 0.000 - 0.001 - 0.003 | - 0.000 0.000 - 0.004 - 0.000 - 0.000 0.000 - 0.000 - 0.000 - 0.000 - 0.001 0.829 0.068 - 0.002 - 0.002 - 0.007 - 0.002 | - 0.001 - 0.001 - 0.012 - 0.000 | - 0.040 | - 0.033 | - 0.011 | - 0.017 | - 0.002 x26 - 0.004 - 0.000 - 0.012 - 0.000 - 0.014 | - 0.008 | - 0.001 | - 0.001 - 0.001 - 0.001 | - 0.001 | - 0.000 - 0.003 | - 0.008 | - 0.002 - 0.004 - 0.080 0.586 - 0.016 - 0.008 - 0.001 0.000 - 0.077 - 0.006 | - 0.002 - 0.003 - 0.028 - 0.000 - 0.002 - 0.000 - 0.001 0.012 - 0.009 - 0.029 - 0.009 - 0.005 0.988 0.037 - 0.035 - 0.001 - 0.025 - 0.005 - 0.030 | - 0.002 0.029 - 0.005 - 0.000 | - 0.005 | - 0.000 x28 - 0.004 - 0.002 - 0.010 0.000 - 0.002 | - 0.001 | - 0.001 | - 0.002 - 0.001 - 0.011 | - 0.000 | - 0.000 0.000 - 0.184 1.000 - 0.000 | - 0.003 | - 0.009 - 0.000 - 0.006 - 0.003 | - 0.020 0.001 0.000 - 0.000 - 0.002 - 0.001 - 0.002 0.005 - 0.006 - 0.011 0.000 0.000 - 0.003 - 0.000 0.001 0.015 - 0.002 - 0.005 - 0.003 - 0.000 - 0.000 0.000 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.001 - 0.004 - 0.001 - 0.000 0.009 0.697 - 0.002 - 0.000 - 0.000 - 0.000 | - 0.002 x30 - 0.000 - 0.003 - 0.000 - 0.002 - 0.001 - 0.000 - 0.002 x31 - 0.000 - 0.000 - 0.002 0.000 - 0.000 - 0.004 - 0.000 | - 0.005 - 0.001 - 0.003 - 0.000 | - 0.000 | - 0.001 - 0.004 - 0.001 - 0.003 - 0.001 1.000 - 0.017 - 0.000 - 0.000 - 0.000 - 0.000 - 0.118 - 0.007 0.001 - 0.000 x32 - 0.001 - 0.000 - 0.000 - 0.001 0.011 - 0.013 - 0.005 - 0.001 - 0.001 - 0.022 | - 0.011 | - 0.023 - 0.013 | - 0.000 - 0.001 - 0.001 | - 0.002 - 0.021 - 0.014 - 0.000 | - 0.018 - 0.000 | 0.990 | - 0.004 - 0.002 | - 0.001 - 0.006 x33 - 0.041 - 0.001 - 0.031 0.039 - 0.040 - 0.005 - 0.027 - 0.016 - 0.004 | - 0.008 | - 0.013 | - 0.018 | - 0.017 - 0.137 | - 0.007 | - 0.011 | - 0.033 | - 0.011 - 0.031 | - 0.102 | - 0.037 | - 0.025 | - 0.007 - 0.018 | - 0.011 | - 0.002 - 0.013 | - 0.003 | 0.977 | - 0.144 | - 0.020 - 0.014 - 0.056 - 0.001 - 0.005 | - 0.012 -0.001 -0.001 -0.001 -0.011 -0.001 -0.000 -0.001 -0.002 -0.005 - 0.018 | - 0.001 | - 0.000 | - 0.005 - 0.000 | - 0.001 | - 0.003 | - 0.001 x34 - 0.002 | - 0.003 | - 0.004 - 0.000 | - 0.001 | - 0.000 - 0.007 | - 0.000 | - 0.001 | - 0.001 | - 0.000 | 0.909 - 0.001 - 0.000 - 0.001 - 0.006 | - 0.002 x35 - 0.001 - 0.000 - 0.002 - 0.001 0.000 |-0.000 |-0.000 |-0.001 - 0.000 | - 0.000 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 | - 0.000 | - 0.000 - 0.003 | - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 | - 0.000 - 0.006 | 0.997 x36 - 0.000 | - 0.000 0.000 - 0.000 | - 0.000 | - 0.001 - 0.000 | - 0.000 | - 0.000 | - 0.000 0.000 - 0.003 - 0.000 - 0.000 - 0.000 | - 0.000 | - 0.000 - 0.001 - 0.000 - 0.000 | - 0.000 - 0.000 | - 0.000 | - 0.000 - 0.001 | - 0.159 0.987 - 0.162 - 0.000 | - 0.000 | - 0.000 | - 0.015 | - 0.001 | 0.998 x37 - 0.001 0.000 - 0.000 | - 0.000 | - 0.000 | - 0.000 - 0.000 0.000 - 0.000 0.000 | - 0.000 x38 - 0.018 - 0.021 - 0.018 0.004 - 0.001 | - 0.024 | - 0.002 | - 0.007 - 0.001 | - 0.000 | - 0.007 - 0.001 - 0.022 | - 0.010 - 0.024 - 0.007 | - 0.001 | - 0.003 - 0.027 - 0.001 - 0.002 | - 0.003 - 0.014 - 0.001 | - 0.009 | - 0.012 | - 0.139 | - 0.152 - 0.103 | - 0.005 0.023 - 0.024 - 0.035 - 0.025 - 0.006 x39 - 0.025 - 0.004 - 0.015 0.000 0.024 | - 0.047 | - 0.003 | - 0.090 | - 0.016 -0.012 | -0.012 | -0.013 | -0.019 | -0.033 | -0.015 | -0.017 | -0.028 | -0.012 | -0.009 | -0.011 | -0.247 | -0.004 - 0.003 | - 0.063 | - 0.008 | - 0.003 | - 0.001 | - 0.007 | - 0.004 | - 0.001 | - 0.121 x40 - 0.063 - 0.010 - 0.038 - 0.004 0.061 - 0.039 | - 0.074 | - 0.108 | - 0.030 0.060 - 0.061 - 0.069 - 0.062 - 0.015 - 0.032 | - 0.031 | - 0.038 | - 0.050 | - 0.083 | - 0.035 | - 0.045 | - 0.073 | - 0.025 | - 0.023 - 0.026 | - 0.011 | - 0.011 - 0.008 | - 0.044 | - 0.021 | - 0.002 | - 0.005 | - 0.010 | - 0.006 | - 0.003 | - 0.018 x41 - 0.000 - 0.001 0.000 - 0.000 | - 0.001 - 0.003 - 0.004 | - 0.000 | - 0.007 x42 - 0.000 - 0 000 - 0 000 | - 0 000 | - 0 000 | - 0 001 - 0 003 - 0 000 I-0.001 I-0.000 - 0 001 0.001 - 0 000 - 0 000 | - 0 000 - 0 000 x43 - 0.001 - 0.007 0.000 0.064 - 0.001 - 0.004 - 0.007 - 0.000 | - 0.050 | - 0.009 - 0.001 0.001 - 0.002 | - 0.003 | - 0.000 - 0.001 | - 0.000 - 0.000 - 0.018 | - 0.001 - 0.000 | - 0.091 - 0.016 - 0.000 - 0.002 x44 - 0.000 | - 0.000 | - 0.000 - 0.000 - 0.000 | - 0.000 - 0.000 - 0.000 0.000 - 0.000 | - 0.000 0.000 0.000 0.000 - 0.000 | - 0.000 - 0.000 - 0.001 - 0.000 | - 0.000 | - 0.000 - 0.000 - 0.000 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 - 0.000 | - 0.000 - 0.000 - 0.000 x45 - 0.001 - 0.002 - 0.012 - 0 000 - 0.000 | - 0.003 | - 0.002 | - 0.000 | - 0.001 - 0.001 - 0 005 - 0.001 | - 0.000 - 0.000 - 0.002 | - 0.003 | - 0.000 | - 0.000 | - 0.001 - 0.000 | - 0.000 0.000 | -0.010 | -0.001 | -0.001 | -0.001 | -0.002 | -0.000 | -0.000 | -0.003 - 0.002 x46 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0 000 - 0.000 - 0.002 - 0.001 - 0 000 - 0 000 - 0.001 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 0.000 - 0.003 - 0.001 - 0.000 - 0.000 | - 0.000 - 0 000 x47 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 | - 0.000 | - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.000 - 0.000 - 0.000 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 | - 0.000 | - 0.000 | - 0.007 x48 - 0.006 x50 - 0.000 | - 0.001 | - 0.004 - 0.000 - 0.001 - 0.000 - 0.000 | - 0.001 0.002 - 0.001 - 0.001 - 0.002 - 0.005 - 0.000 - 0.000 - 0.001 - 0.005 - 0.000 | - 0.000 | - 0.000 - 0.003 | - 0.001 0.001 - 0.001 - 0.006 - 0.000 - 0.000 - 0.001 - 0.002 | - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 | - 0.000 - 0.000 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.002 - 0.000 - 0 000 - 0.001 - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 0.004 - 0.000 0.000 - 0.000 0.000 0.000 - 0.002 - 0.002 0.006 - 0.042 - 0.014 - 0.004 - 0.003 - 0.003 - 0.001 - 0.004 - 0.045 - 0.070 - 0.002 - 0.000 - 0.004 - 0.001 - 0.003 - 0.002 x53 - 0.002 - 0.001 - 0.001 0.000 - 0.022 - 0.011 - 0.067 - 0.006 - 0.003 - 0.003 - 0.014 - 0.000 0.000 - 0.004 - 0.002 - 0.000 - 0.005 | - 0.000 0.000 0.002 - 0.003 - 0.006 | - 0.007 0.004 - 0.000 - 0.003 - 0.007 | - 0.008 0.041 - 0.001 - 0.000 0.002 - 0.031 - 0.004 - 0.002 - 0.000 - 0.004 | - 0.001 0.001 - 0.001 - 0.004 - 0.000 - 0.007 0.002 - 0.003 - 0.000 - 0.002 - 0.004 x55 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 | - 0.000 | - 0.000 - 0.000 | - 0.000 | - 0.000 | - 0.000 - 0.000 | - 0.000 | - 0.000 | - 0.000 | - 0.000 | - 0.000 | - 0.000 | - 0.000 - 0.000 | - 0.000 - 0.000 | - 0.000 | - 0.000 0.000 - 0.000 | - 0.000 | - 0.000 | - 0.000 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 | - 0.017 | - 0.000 0.000 0.017 - 0.020 - 0.009 | - 0.010 0.007 - 0.007 - 0.081 - 0.002 - 0.035 0.037 - 0.030 | - 0.001 - 0.025 - 0.015 - 0.066 | - 0.009 | - 0.003 - 0.001 - 0.004 0.078 - 0.003 0.012 - 0.005 - 0.029 - 0.005 - 0.005 - 0.001 - 0.093 - 0.016 - 0.002 - 0.000 | - 0.000 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 | - 0.000 | - 0.000 | - 0.000 x57 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 0.000 0.000 - 0.000 - 0.017 - 0.000 | - 0.000 - 0.001 - 0.018 0.000 - 0.000 - 0.000 | - 0.000 | - 0.001 - 0.068 | - 0.006 | - 0.031 | - 0.003 | - 0.000 x59 - 0.000 - 0.000 - 0.006 - 0.002 - 0.000 - 0.015 x60 - 0.005 - 0.001 - 0.000 - 0.071 - 0.001 | - 0.000 - 0.003 | - 0.012 - 0.000 - 0.003 - 0.009 - 0.057 - 0.000 - 0.000 - 0.002 - 0.002 - 0.000 - 0.001 | - 0.000 | - 0.000 | - 0.001 - 0.006 - 0.001 - 0.002 | - 0.001 | - 0.000 x61 - 0.000 - 0.000 - 0.002 | - 0.000 | - 0.002 - 0.033 - 0.000 | - 0.003 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.022 - 0.041 - 0.004 - 0.004 x62 - 0.000 - 0.001 0.001 0.000 0.004 - 0.000 - 0.000 0.000 - 0.336 - 0.000 - 0.000 - 0.011 - 0.000 - 0.000 x63 - 0.000 - 0.000 - 0.000 x64 | - 0.000 | - 0.004 | - 0.000 - 0.000 - 0.001 - 0.002 - 0.001 - 0.001 - 0.000 - 0.001 - 0.004 | - 0.000 - 0.000 - 0.001 | - 0.000 | - 0.000 - 0.000 - 0.001 | - 0.000 - 0.005 - 0.002 - 0.004 - 0.000 - 0.000 - 0.000 x65 - 0.000 | - 0.001 - 0.000 - 0.000 | - 0.000 - 0.007 - 0.005 0.000 x66 - 0.000 0.000 0.000 x67 - 0.000 - 0.003 | - 0.001 - 0.000 0.055 - 0.004 - 0.006 - 0.000 - 0.013 - 0.001 - 0.006 - 0.000 | - 0.006 - 0.002 - 0.017 x68 - 0.000 | - 0.001 0.000 - 0.000 0.000 - 0.000 - 0.000 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 - 0.000 x69 - 0.000 - 0.000 - 0.001 - 0.000 | - 0.000 - 0.000 | - 0.000 - 0.001 - 0.000 - 0.000 0.000 0.000 - 0.000 - 0.000 0.003 - 0.001 - 0.002 - 0.000 - 0.001 - 0.000 | - 0.001 - 0.002 - 0.000 x71 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 0.005 x72 | - 0.001 | 0.000 | 0.000 - 0 000 - 0 000 | - 0 000 | - 0 000 l - o ooo - 0.001 | 0.000 | 0,000 |-0,000 |-0,000 - 0 000 | - 0 000 | - 0 000 0.003 - 0 000 - 0 001 x73 - 0 000 | - 0 000 | - 0 001 - 0 000 - 0 000 | - 0 000 - 0 000 - 0 001 - 0.000 - 0 001 - 0 000 | - 0 000 - 0 000 - 0 002 - 0.001 - 0 000 - 0 000 x74 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.000 x75 - 0.000 x76 - 0.000 - 0.000 - 0 000 x77 x78 - 0.000 - 0 000 - 0.000 - 0.000 0.000 0.000 - 0.003 0.000 - 0.000 0.000 - 0.000 0.000 - 0.000 0.000 - 0.000 0.000 - 0.000 - 0.000 | - 0.000 - 0.001 - 0.000 | - 0.000 - 0.000 | - 0.000 - 0.000 - 0.000 - 0.001 | - 0.000 | - 0.000 | - 0.000 | - 0.000 | - 0.000 - 0.005 - 0.000 - 0.000 - 0.000 - 0.001 - 0.003 x81 - 0.000 - 0.000 - 0.001 - 0.000 - 0.000 | - 0.001 | - 0.000 - 0.003 - 0.000 - 0.001 - 0.000

| x38 | x39 | x40
- 0.000 | x41
 | x42 | x43 | x44 | x45
- 0.001 | x46
- 0.008
 | x47 | x48 | x49 | x50 | x51 | x52
 | x53 | x54 | x55 | x56 | x57
 | x58 | x59 | x60
0.000 | x61 | x62
 | x63 | x64 | x65 | x66
- 0.000 | x67 | x68
- 0.001 | x69
- 0.000 | x70
- 0.000
 | x71
- 0.000 | x72
- 0.000 | x73 | x74 x75
 |
|--|---|--
--|--|--|--
---|---|--|---|--
--|--|--
---|---|--|--|--|---------------------------------------
--|---|--|---
--|--|---|--|---|---|---
--|---|--|--
--|
| - 0.000 | - | - 0.000 | -
 | - | - | - | - 0.001 | - 0.008
 | + - | - | - | - | - | + -
 | - | - | - | - | -
 | - | | - | - | -
 | - | - | - | - 0.000 | - | - 0.001 | - 0.000 | - 0.000
 | - 0.000 | - 0.000 | - |
 |
| - | - | - | -
 | - | - | - | - 0.000 | - 0.008
 | - | - | - | - | - | -
 | - | - | - | - | -
 | - | - | - | - | -
 | - | - | - | - | - | - | - | -
 | - | - | - |
 |
| - | - | - | -
 | - | - | - | - | -
 | - | - | - | - | - | -
 | - | - | - | - | -
 | - | - | - | - | -
 | - | - | - | - | - | - | - | -
 | - | - 0.000 | - |
 |
| - 0.000 | - | - | -
 | - | - | - | - | -
 | - | <u> </u> | - | - | - | -
 | - | - | - | - + | -
 | - + | - + | - | - | -
 | - | - | - | - | - | - | - | -
 | - | - | - |
 |
| - 0.010 | - | - 0.000 | -
 | - | - 0.000 | - | - | -
 | - | - | - | - 0.000 | - | -
 | - | - 0.000 | | - 0.000 | -
 | - | - 0.001 | - + | - | -
 | - | - | - | - | - | - | - | - 0.000
 | - | - | - |
 |
| - 0.000 | - 0.000 | - | -
 | - | - | - | - | -
 | - | - | - | - | - | -
 | - | - | - | - | -
 | - 1 | - | - | - | -
 | - | - | - | - | - | - | - | - 0.000
 | - | - | - |
 |
| - 0.000 | - 0.000 | - 0.000 | -
 | - | - 0.000 | - | - 0.140 | - 0.015
 | - | - 0.001 | - | - | - | -
 | - 0.000 | - | | - 0.000 | 0
 | 0.000 - | - 0.000 - | 0.000 - | - 0.000 | -
 | - 0.000 | - | - | - 0.002 | - | - 0.000 | - 0.007 | - 0.002
 | - 0.001 | - 0.016 | - 0.015 | - 0.002 - 0.000
 |
| - | - 0.000 | - | -
 | - | - | - | - 0.008 | - 0.004
 | - | - 0.003 | - | - | - | -
 | - | - | - | - | -
 | - | - - | 0.000 - | - 0.000 | -
 | - | - | - | - 0.000 | - | - 0.000 | - 0.000 | -
 | - 0.000 | - 0.000 | - | - 0.000 - 0.000
 |
| - 0.000 | - | - 0.000
- 0.000 | - 0.004
 | - 0.000 | - 0.000 | - 0.000 | - 0.003
- 0.001 | - 0.001
- 0.000
 | - | - | - 0.000 | - | - | -
 | - | - | | - 0.000 | -
 | - | - 0.000 - | 0.000 | - | -
 | - 0.000 | - | - | - 0.000 | - | - | - | - 0.000
 | - 0.000 | - 0.001 | - | - 0.000 - 0.003
 |
| - 0.000 | - 0.000 | - 0.000 | + -
 | - 0.001 | - 0.000 | - 0.000 | - 0.001 | - 0.000
 | + - | + - | - 0.000 | - 0.000 | + - | +
 | - 0.000 | - | _ | - 0.000 |
 | - | _ | 0.000 | - | -
 | - 0.000 | - | - | | - 0.053 | - 0.001 | - 0.000 | - 0.000
 | - 0.000 | - 0.001 | - 0.017 | - 0.000
 |
| - 0.000 | - | - | -
 | - | - | - | - | -
 | - | - | - | - 0.000 | - | -
 | - | - | - | - | -
 | - | 0.000 | - | - | -
 | - | - | - | - | - | - | - | - 0.000
 | - | - 0.000 | - | 0.000
 |
| - 0.009 | - 0.000 | - 0.000 | -
 | - | - | - 0.002 | - 0.000 | -
 | - | - | - | - 0.000 | - | -
 | - 0.000 | - | | - 0.000 - | 0.000 - 0
 | 0.000 - | - 0.005 - | 0.000 - | - 0.000 | -
 | - | - | - | - | - | - 0.000 | - 0.003 | - 0.000
 | - | - 0.000 | - | 0.000
 |
| - 0.000 | - 0.000 | - 0.000 | - 0.000
 | - 0.002 | - 0.000 | - 0.019 | - 0.001 | - 0.000
 | - 0.039 | - | - 0.002 | - 0.000 | - 0.004 | - 0.001
 | - 0.000 | - 0.002 | - 0.029 - | |
 | - | | | - 0.001 | - 0.001
 | - 0.000 | - 0.000 | - 0.016 | | - 0.002 | - 0.001 | - 0.006 | - 0.003
 | - 0.000 | - 0.001 | - 0.010 | - 0.000 - 0.002
 |
| - 0.000
- 0.013 | - 0.000
- 0.037 | - 0.000
- 0.037 | - 0.000
- 0.172
 | - 0.019
- 0.139 | - 0.000
- 0.028 | - 0.007
- 0.007 | - 0.001
- 0.020 | - 0.000
- 0.001
 | - 0.121 | - 0.001 | - 0.001
- 0.002 | - 0.001 | - 0.007
- 0.001 | - 0.001
 | - 0.000
- 0.007 | - 0.001
- 0.001 | - 0.014 - | _ |
 | - | | - | - 0.004
- 0.000 | - 0.000
 | - 0.000
- 0.000 | - 0.000
- 0.019 | - 0.001
- 0.021 | - 0.000 | - 0.036 | - 0.002
- 0.010 | - 0.048
- 0.007 | - 0.002
- 0.003
 | - 0.007
- 0.001 | - 0.002
- 0.006 | - 0.003
- 0.258 | - 0.000 - 0.003
- 0.000 - 0.000
 |
| - 0.006 | - 0.000 | - 0.000 | - 0.172
 | - 0.133 | - 0.028 | - 0.007 | - 0.004 | - 0.000
 | - 0.003 | - 0.010 | - 0.002 | - 0.002 | - 0.001 | - 0.008
 | - 0.000 | - 0.001 | | - 0.000 | -
 | - | _ | - | - 0.000 | -
 | - 0.000 | - 0.013 | - 0.021 | - 0.000 | - 0.030 | - 0.038 | - 0.000 | - 0.000
 | - 0.000 | - 0.002 | - 0.238 | - 0.000 - 0.003
 |
| - 0.000 | - 0.000 | - 0.000 | -
 | - 0.000 | - | - | - 0.000 | -
 | - | - | - | - | - | -
 | - | - | - | - | -
 | _ | - | 0.000 | - | - 0.002
 | - 0.000 | - | - | - | - | - 0.059 | - 0.001 | - 0.002
 | - 0.000 | - 0.079 | - 0.037 | - 0.000 -
 |
| - 0.010 | - 0.000 | - 0.001 | -
 | - | - 0.000 | - 0.000 | - 0.000 | -
 | - | - | - 0.000 | - 0.000 | - | -
 | - | - | | - 0.000 | -
 | - - | 0.001 - | 0.000 - | - 0.035 | -
 | - 0.000 | - | - | | 0.001 | - 0.000 | - 0.000 | - 0.000
 | - | - 0.000 | - | 0.000
 |
| - 0.033 | - 0.000 | - 0.000 | -
 | - | - 0.001 | - | - 0.000 | - 0.000
 | - | - | - 0.000 | - 0.000 | - | - 0.001
 | - | - 0.000 | | - 0.000 | -
 | _ | 0.006 | - | - 0.000 | -
 | - | - | - | - 0.001 | - | - 0.000 | - 0.002 | - 0.000
 | - | - 0.000 | - | 0.001
 |
| - 0.047
- 0.005 | - 0.000
- 0.001 | - 0.001
- 0.001 | -
 | - | - 0.001
- 0.001 | - | - | -
 | + - | - | - 0.000 | - 0.000
- 0.001 | - | - 0.001
 | - | - | | - 0.000
- 0.000 | -
 | - | | 0.000 | - 0.000 | -
 | - 0.000 | - | - | | - 0.005
- 0.003 | - 0.005
- 0.000 | - 0.000
- 0.000 | - 0.000
 | - 0.001 | - 0.000
- 0.000 | - |
 |
| - 0.003 | - 0.001 | - 0.001 | - 0.000
 | - | - 0.001 | - 0.014 | - 0.006 | - 0.000
 | - 0.008 | - 0.096 | - 0.019 | - 0.001 | - 0.013 | - 0.004
 | - 0.000 | - 0.001 | | |
 | - | | | - 0.000 | - 0.000
 | - 0.000 | - 0.001 | - | | - 0.030 | - 0.003 | - 0.001 | - 0.005
 | - 0.001 | - 0.000 | - 0.009 | - 0.000 - 0.006
 |
| - 0.006 | - 0.015 | - 0.001 | - 0.046
 | - 0.005 | - 0.002 | - 0.005 | - 0.001 | - 0.001
 | - 0.002 | - 0.005 | - 0.006 | - 0.004 | - 0.002 | - 0.119
 | - 0.000 | - 0.000 | | - 0.097 |
 | _ | | | - 0.000 | - 0.000
 | - 0.000 | - 0.000 | | | - 0.001 | - 0.027 | - 0.001 | - 0.002
 | - 0.000 | - 0.003 | - | - 0.000 - 0.002
 |
| - 0.007 | - 0.001 | - 0.003 | - 0.211
 | - 0.001 | - 0.056 | - 0.004 | - 0.001 | - 0.001
 | - 0.009 | - 0.000 | - 0.003 | - 0.003 | - 0.087 | - 0.002
 | - 0.000 | - 0.000 | | - 0.000 |
 | - | | | - 0.000 | - 0.000
 | - 0.000 | - 1 | - | | - 0.005 | - 0.003 | - 0.001 | - 0.054
 | - 0.002 | - 0.005 | - 1 | 0.001
 |
| - 0.001
- 0.001 | - 0.010
- 0.010 | - 0.014
- 0.005 | - 0.000
- 0.055
 | - 0.002
- 0.051 | - 0.036
- 0.085 | - 0.001
- 0.000 | - 0.001
- 0.000 | - 0.003
- 0.001
 | - 0.001 | - 0.001 | - 0.001
- 0.002 | - 0.000
- 0.001 | - 0.002 | - 0.000
 | - 0.000
- 0.000 | - 0.002
- 0.000 | - 0.011 - | - 0.005
- 0.000 | 0
 | _ | | 0.001 - | - 0.000 | -
 | - 0.000
- 0.000 | - 0.030
- 0.000 | - | | - 0.007
- 0.001 | - 0.156
- 0.002 | - 0.001 | - 0.000
- 0.004
 | - 0.001
- 0.000 | - 0.013
- 0.001 | - 0.029 | 0.000
 |
| - 0.001 | - 0.010 | - 0.005 | - 0.000
 | - 0.051 | - 0.000 | - 0.000 | - 0.000 | - 0.001
 | - 0.006 | - 0.028 | - 0.002 | - 0.001 | - 0.002 | -
 | - 0.000 | - 0.000 | - 0.011 - | | 0.000 - 0
 | - | _ | - | - 0.000 | - 0.000
 | - 0.000 | - 0.000 | - 0.043 | | - 0.001 | - 0.002 | - 0.000 | - 0.004
 | - 0.005 | - 0.001 | - 0.007 | - 0.000 - 0.017
 |
| - 0.002 | - 0.000 | - 0.000 | - 0.003
 | - | - 0.000 | - 0.000 | - 0.000 | - 0.000
 | - 0.000 | - | - 0.000 | - 0.001 | - 0.000 | - 0.000
 | - 0.000 | - | | - 0.000 | -
 | - | - | - | - 0.000 | -
 | - 0.000 | - 0.000 | - | | - 0.000 | - 0.000 | - 0.000 | - 0.000
 | - 0.000 | - 0.000 | - 0.000 | - 0.000 - 0.033
 |
| - 0.001 | - 0.000 | - 0.005 | - 0.033
 | - | - 0.001 | - 0.008 | - 0.000 | - 0.001
 | - 0.000 | - 0.001 | - 0.000 | - 0.001 | - 0.004 | - 0.007
 | - 0.001 | - 0.000 | - 0.005 - | - 0.000 | -
 | - - | 0.002 - | 0.000 - | - 0.000 | - 0.000
 | - 0.000 | - 0.003 | - | - 0.000 | - 0.000 | - 0.003 | - 0.000 | - 0.000
 | - 0.000 | - 0.000 | - |
 |
| - 0.005 | - 0.001 | - 0.012 | - 0.002
 | - 0.001 | - 0.001 | - 0.003 | - 0.035 | - 0.011
 | - 0.003 | - 0.002 | - 0.008 | - 0.005 | - 0.004 | - 0.006
 | - 0.001 | - 0.001 | | _ |
 | - | _ | - | - 0.001 | - 0.001
 | - 0.000 | _ | - 0.000 | | 0.002 | - 0.004 | - 0.003 | - 0.005
 | - 0.006 | - 0.022 | - 0.067 | - 0.000 - 0.004
 |
| - 0.000
- 0.000 | - 0.001
- 0.000 | - 0.001
- 0.000 | - 0.000
- 0.000
 | - 0.000 | - 0.000
- 0.000 | - 0.000
- 0.000 | - 0.001
- 0.000 | - 0.001
- 0.000
 | - 0.000
- 0.001 | - 0.002 | - 0.002 | - 0.000
- 0.000 | - 0.000 | - 0.000
- 0.000
 | - 0.000
- 0.000 | - 0.000
- 0.000 | - 0.003 | _ |
 | | | - | - 0.000
- 0.000 | - 0.000
- 0.000
 | - 0.000
- 0.000 | - 0.000
- 0.000 | - 0.000 | | - 0.003
- 0.001 | - 0.001
- 0.000 | - 0.000
- 0.000 | - 0.001
- 0.000
 | - 0.002
- 0.001 | - 0.008
- 0.002 | - 0.002
- 0.000 | - 0.000 - 0.003
- 0.000 - 0.000
 |
| - 0.000 | - 0.000 | - 0.000 | - 0.000
 | - 0.000 | - 0.000 | - 0.000 | - 0.000 | - 0.000
 | - 0.001 | - | - 0.000 | - 0.000 | - 0.000 | - 0.000
 | - 0.000 | - 0.000 | | |
 | | | | - 0.000 | - 0.000
 | - 0.000 | - 0.000 | - | | - 0.001 | - 0.000 | - 0.000 | - 0.000
 | - 0.001 | - 0.002 | - 0.000 | - 0.000 - 0.000
 |
| - 0.000 | - 0.000 | - 0.000 | -
 | - | - | - 0.000 | - 0.000 | - 0.000
 | - 0.000 | - | - | - 0.000 | - | -
 | - 0.000 | - | | - 0.000 | -
 | _ | | - | - 0.000 | -
 | - 0.000 | - 0.000 | - | - 0.000 | - | - 0.002 | - 0.000 | - 0.000
 | - 0.000 | - 0.000 | - |
 |
| 0.842 | - 0.008 | - 0.002 | - 0.002
 | - 0.048 | - 0.011 | - 0.013 | - 0.027 | - 0.030
 | - 0.015 | - | - 0.001 | - 0.008 | - 0.011 | - 0.010
 | - 0.069 | - 0.006 | - 0.008 - | - 0.025 - | 0.002 - 0
 | 0.153 - | 0.019 - | 0.002 - | - 0.006 | - 0.000
 | - 0.000 | - 0.003 | - | - 0.000 | 0.006 | - 0.012 | - 0.002 | - 0.147
 | - 0.037 | - 0.122 | - | - 0.003 - 0.070
 |
| - 0.006 | 0.933
- 0.011 | - 0.007
0.974 | - 0.019
- 0.038
 | - 0.031 | - 0.059 | - 0.016 | - 0.017 | - 0.021
 | - 0.008 | - 0.005 | - 0.001 | - 0.001 | - 0.002 | - 0.053
 | - 0.003 | - 0.000 | - 0.002 - | - 0.005 - | 0.001 -0
 | 0.001 - | - 0.006 - | 0.000 - | - 0.002 | - 0.007
 | - 0.000 | | - 0.004 | | - 0.020 | - 0.003 | - 0.006 | - 0.003
 | - 0.002 | - 0.004 | - 0.028 | - 0.000 - 0.002
 |
| | | |
 | | | | |
 | 1 0 0 0 0 | 0.012 | 0.000 | 0.001 | 1 0 004 | 0.000
 | 0.000 | 0.001 | 0.000 | 0.012 | 0.004
 | 0.002 | 0.011 | - | 0.004 |
 | | | | | | 0.000 | 0.011 | 0.000
 | 0.000 | | |
 |
| - 0.017 | - 0.011 | | _
 | - 0.038 | - 0.010 | - 0.006 | - 0.042 | - 0.009
 | - 0.020 | - 0.012 | - 0.002 | - 0.001 | - 0.004 | - 0.008
 | - 0.002 | - 0.001 | - 0.006 - | - 0.013 - | 0.004 - 0
 | - | _ | - | - 0.004 | - 0.000
 | - 0.000 | - 0.004 | - 0.011 | - 0.004 | - 0.021 | - 0.008 | - 0.011 | - 0.002
 | - 0.003 | - 0.008 | - 0.070 | - 0.001 - 0.004
 |
| - 0.017
- 0.003
- 0.000 | - 0.000 | - 0.000
- 0.000 | 0.984
 | - 0.038 | - 0.010 | - 0.006 | - 0.042
-
- 0.003 | - 0.009
-
- 0.000
 | - 0.020
-
- 0.000 | - 0.012
-
- 0.000 | - 0.002
- 0.000
- 0.000 | - 0.001
- 0.000
- 0.000 | - 0.004
- 0.000
- 0.000 | - 0.008
- 0.000
 | - 0.002
-
- 0.000 | - 0.001
- 0.000
- 0.000 | - | - | -
 | - - | 0.002 | 0.001 | - 0.004
-
- 0.000 | - 0.000
-
-
 | - 0.000
-
- 0.000 | - 0.004
- 0.000 | - 0.011 | - | - 0.021 | - 0.008
-
- 0.001 | - 0.011
-
- 0.001 | - 0.002
- 0.002
- 0.000
 | | - 0.008
- 0.000
- 0.000 | - 0.070 | - 0.001 - 0.004
 |
| - 0.003 | - | - 0.000 | 0.984
 | - | - | - 0.006
-
-
- 0.003 | - | -
 | - | - | - 0.000 | - 0.000 | - 0.000 | - 0.000
 | - | - 0.000 | | - | 0.000 - 0
 |
0.000 - | - 0.002
- 0.000 - | 0.001 - | - | - 0.000
-
-
 | - | - | - 0.011
-
- | - 0.000 | - | - | - | - 0.002
 | - | - 0.000 | |
 |
| - 0.003
- 0.000
- 0.008
- 0.000 | - 0.000
- 0.005
- 0.000 | - 0.000
- 0.000
- 0.015
- 0.000 | 0.984
- 0.000
- 0.014
- 0.000
 | -
0.986
-
- 0.000 | -
- 0.000
0.989
- 0.000 | -
-
- 0.003
0.730 | -
- 0.003
- 0.003
- 0.000 | - 0.000
- 0.001
- 0.000
 | - 0.000
- 0.000 | -
- 0.000
-
- 0.000 | - 0.000
- 0.000
- 0.001
- 0.000 | - 0.000
- 0.000
- 0.003
- 0.000 | - 0.000
- 0.000
0.000 | - 0.000
-
-
- 0.000
 | -
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
0.000 | | - 0.000 - 0.000 - | - 0.000 - 0
0
 |
0.000 -
0.006 -
0.000 - | - 0.002
- 0.000 -
- 0.000 - | 0.001 -
- 0.000 -
0.000 -
0.000 - | - 0.000
- 0.013
- 0.000 | -
-
-
 | - 0.000
- 0.000
- 0.000 | -
- 0.000
-
- 0.000 | - 0.011 | - 0.000
- 0.003
- 0.000 | -
- 0.002
- 0.013
- 0.000 | - 0.001
- 0.018
- 0.000 | - 0.001
- 0.001
- 0.000 | - 0.002
- 0.000
- 0.000
- 0.001
 | -
- 0.000
- 0.001
- 0.000 | - 0.000
- 0.000
- 0.001
- 0.000 | -
-
- 0.000 |
 |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.001 | - 0.000
- 0.005
- 0.000
- 0.002 | - 0.000
- 0.000
- 0.015
- 0.000
- 0.001 | 0.984
- 0.000
- 0.014
- 0.000
- 0.003
 | -
0.986
-
- 0.000
- 0.007 | -
- 0.000
0.989
- 0.000
- 0.002 | -
- 0.003
0.730
- 0.004 | -
- 0.003
- 0.003
- 0.000
0.932 | - 0.000
- 0.001
- 0.000
- 0.002
 | - 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.003
- 0.000
- 0.001 | - 0.000
- 0.000
0.000
- 0.014 | - 0.000
-
-
- 0.000
- 0.012
 | - 0.000
- 0.000
- 0.000
- 0.001 | - 0.000
- 0.000
0.000
- 0.002 | | - 0.000 - 0.000 - 0.000 - 0.002 - | - 0.000 - 0
0
0.000 - 0
0.001 - 0
 | | - 0.002
- 0.000 - 1
- 0.000 - 1
- 0.000 - 1
- 0.017 - 1 | 0.001 -
0.000 -
0.000 -
0.000 -
0.003 - | - 0.000
- 0.013
- 0.000
- 0.002 | -
-
- 0.000
 | - 0.000
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.002 | - 0.011
-
-
-
- | - 0.000
- 0.003
- 0.000
- 0.019 | -
- 0.002
- 0.013
- 0.000
- 0.077 | - 0.001
- 0.018
- 0.000
- 0.008 | -
- 0.001
- 0.001
- 0.000
- 0.003 | - 0.002
- 0.000
- 0.000
- 0.001
- 0.007
 | - 0.000
- 0.001
- 0.000
- 0.006 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.010 | -
-
- |
 |
| - 0.003
- 0.000
- 0.008
- 0.000 | - 0.000
- 0.005
- 0.000 | - 0.000
- 0.000
- 0.015
- 0.000 | 0.984
- 0.000
- 0.014
- 0.000
 | -
0.986
-
- 0.000 | -
- 0.000
0.989
- 0.000 | -
-
- 0.003
0.730 | -
- 0.003
- 0.003
- 0.000 | - 0.000
- 0.001
- 0.000
 | - 0.000
- 0.000 | -
- 0.000
-
- 0.000 | - 0.000
- 0.000
- 0.001
- 0.000 | - 0.000
- 0.000
- 0.003
- 0.000 | - 0.000
- 0.000
0.000 | - 0.000
-
-
- 0.000
 | -
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
0.000 | | - 0.000 - 0.000 - 0.000 - 0.002 - 0.000 - | - 0.000 - 0
0
0.000 - 0
0.001 - 0
 | | - 0.002
- 0.000 -
- 0.000 -
- 0.000 -
- 0.017 -
- 0.004 - | 0.001 -
0.000 -
0.000 -
0.000 -
0.003 -
0.000 - | - 0.000
- 0.013
- 0.000 | -
-
- 0.000
 | - 0.000
- 0.000
- 0.000 | -
- 0.000
-
- 0.000 | - 0.011
-
-
-
-
-
- | - 0.000
- 0.003
- 0.000
- 0.019
- 0.004 | -
- 0.002
- 0.013
- 0.000 | - 0.001
- 0.018
- 0.000 | - 0.001
- 0.001
- 0.000 | - 0.002
- 0.000
- 0.000
- 0.001
 | -
- 0.000
- 0.001
- 0.000 | - 0.000
- 0.000
- 0.001
- 0.000 | -
-
- 0.000 |
 |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.001
- 0.000 | - 0.000
- 0.005
- 0.000
- 0.002
- 0.001 | - 0.000
- 0.000
- 0.015
- 0.000
- 0.001
- 0.000 | 0.984
- 0.000
- 0.014
- 0.000
- 0.003
- 0.000
 | -
0.986
-
- 0.000
- 0.007
- 0.001 | - 0.000
0.989
- 0.000
- 0.002 | -
- 0.003
0.730
- 0.004
- 0.001 | - 0.003
- 0.003
- 0.000
0.932
- 0.016 | - 0.000
- 0.001
- 0.000
- 0.002
0.999
 | -
- 0.000
-
- 0.000
- 0.002
- 0.001 | - 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.003
- 0.000
- 0.001
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.014
- 0.001 | - 0.000

 | - 0.000
- 0.000
- 0.000
- 0.001
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.002
- 0.000 | | - 0.000 - 0.000 - 0.000 - 0.002 - 0.000 - | - 0.000 - 0
0
0.000 - 0
0.001 - 0
0.000 - 0
 | | - 0.002
- 0.000 -
- 0.000 -
- 0.000 -
- 0.017 -
- 0.004 - | 0.001 -
0.000 -
0.000 -
0.000 -
0.003 -
0.000 - | - 0.000
- 0.013
- 0.000
- 0.002
- 0.000 | -
-
- 0.000
-
- 0.000
 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.002
- 0.001 | - 0.011
-
-
-
-
-
-
-
- | - 0.000
- 0.003
- 0.000
- 0.019
- 0.004 | -
- 0.002
- 0.013
- 0.000
- 0.077
- 0.007 | - 0.001
- 0.018
- 0.000
- 0.008
- 0.001 | - 0.001
- 0.001
- 0.000
- 0.003
- 0.001 | - 0.002
- 0.000
- 0.000
- 0.001
- 0.007
- 0.001
 | - 0.000
- 0.001
- 0.000
- 0.006
- 0.003 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.010
- 0.002 | -
-
- 0.000 |
 |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.001
- 0.000
- 0.000 | - 0.000
- 0.005
- 0.000
- 0.002
- 0.001
- 0.000 | - 0.000
- 0.000
- 0.015
- 0.000
- 0.001
- 0.000
- 0.000
 | 0.984
- 0.000
- 0.014
- 0.000
- 0.003
- 0.000
- 0.000
 | - 0.986
- 0.000
- 0.007
- 0.001
- 0.014 | - 0.000
0.989
- 0.000
- 0.002
- 0.002
- 0.000
0.000 | - 0.003
0.730
- 0.004
- 0.001
- 0.002 | - 0.003
- 0.003
- 0.000
0.932
- 0.016
- 0.000
0.001 | - 0.000
- 0.001
- 0.000
- 0.002
- 0.000
- 0.000
- 0.000
 | - 0.000
- 0.000
- 0.002
- 0.001
- 0.990
 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.995
- 0.090 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.011
0.932 | - 0.000
- 0.000
- 0.003
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.001
- 0.001
- 0.002
 | - 0.000
- 0.000
- 0.012
- 0.001
- 0.000
 | - 0.000
- 0.000
- 0.000
- 0.001
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.002
- 0.000
- 0.001
 | | - 0.000 - 0.000 - 0.002 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 - 0
- 0.000 - 0
0.000 - 0
0.001 - 0
0.000 - 0
0.000 - 0
 | 0.000 - 0.006 - 0.000 - 0.002 - 0.003 | 0.002 | 0.001 - 0.000 - 0.000 - 0.000 - 0.003 - 0.000 - 0.000 - 0.000 - 0.000 - | - 0.000
- 0.013
- 0.000
- 0.002
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.001
- 0.000
 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.002
- 0.001
- 0.000 | - 0.011
 | - 0.000
- 0.003
- 0.000
- 0.019
- 0.004
- 0.000 | - 0.002
- 0.013
- 0.000
- 0.077
- 0.007
- 0.003 | - 0.001
- 0.018
- 0.000
- 0.008
- 0.001
- 0.000 | - 0.001
- 0.001
- 0.000
- 0.003
- 0.001
- 0.006
0.000 | - 0.002
- 0.000
- 0.000
- 0.001
- 0.007
- 0.001
- 0.001
- 0.001
- 0.000
 | - 0.000
- 0.001
- 0.000
- 0.006
- 0.003
- 0.001 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.010
- 0.002
- 0.000
- 0.000
- 0.000 | -
-
- 0.000
-
-
-
- |
 |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.001
- 0.000
- 0.000
 | - 0.000
- 0.005
- 0.000
- 0.002
- 0.001
- 0.000
 | - 0.000
- 0.000
- 0.015
- 0.000
- 0.001
- 0.000
- 0.000
0.001 | 0.984
- 0.000
- 0.014
- 0.000
- 0.003
- 0.000
 | - 0.986
0.000
- 0.007
- 0.001
- 0.014
0.001 | - 0.000
0.989
- 0.000
- 0.002
- 0.002
- 0.000
0.000
- 0.001 | - 0.003
0.730
- 0.004
- 0.001
- 0.002
0.008 | - 0.003
- 0.003
- 0.000
0.932
- 0.016
- 0.000
0.001
- 0.018 | - 0.000
- 0.001
- 0.002
- 0.002
0.999
- 0.000
- 0.000
0.001
 | - 0.000
- 0.000
- 0.002
- 0.001
- 0.990
 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.995
- 0.090
- 0.016 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.011
0.932
- 0.017 | - 0.000
- 0.000
- 0.003
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
0.905 | - 0.000
- 0.000
- 0.000
- 0.014
- 0.001
- 0.002
 | - 0.000
- 0.000
- 0.012
- 0.001
- 0.000
- 0.000
- 0.000
 | - 0.000
- 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
0.014 | - 0.000
- 0.000
- 0.000
- 0.002
- 0.000
- 0.001
0.001 | | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.0013 - 0.0013 - 0.0013 - 0.0013 | - 0.000 - 0
0
0.000 - 0
0.001 - 0
0.000 - 0
0.000 - 0
- 0.000 - 0
- 0.001 - 0
 | | - 0.002 | 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - | - 0.000
- 0.013
- 0.000
- 0.002
- 0.000
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.001
 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.002
- 0.001
- 0.000
0.007 | - 0.011
 | - 0.000 - 0.003 - 0.000 - 0.019 - 0.004 - 0.000 0.006 | - 0.002
- 0.013
- 0.000
- 0.077
- 0.007
- 0.003
0.015 | - 0.001
- 0.018
- 0.000
- 0.008
- 0.001
- 0.000
0.003 | - 0.001
- 0.001
- 0.000
- 0.003
- 0.001
- 0.006
0.000
- 0.011 | - 0.002
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.001
- 0.000
- 0.002
 | - 0.000
- 0.001
- 0.000
- 0.006
- 0.003
- 0.001
0.002 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.010
- 0.002
- 0.000
- 0.000
- 0.000
- 0.000 | -
-
- 0.000 |
 |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.001
- 0.000
- 0.000 | - 0.000
- 0.005
- 0.000
- 0.002
- 0.001
- 0.000 | - 0.000
- 0.000
- 0.015
- 0.000
- 0.001
- 0.000
- 0.000
 | 0.984
- 0.000
- 0.014
- 0.000
- 0.003
- 0.000
- 0.000
 | - 0.986
- 0.000
- 0.007
- 0.001
- 0.014 | - 0.000
0.989
- 0.000
- 0.002
- 0.002
- 0.000
0.000
- 0.001
- 0.000 | - 0.003
0.730
- 0.004
- 0.001
- 0.002
0.008 | - 0.003
- 0.003
- 0.000
- 0.000
- 0.016
- 0.000
0.001
- 0.018
- 0.001 | - 0.000
- 0.001
- 0.002
- 0.002
- 0.000
- 0.000
- 0.000
- 0.001
- 0.000
 | - 0.000
- 0.000
- 0.002
- 0.001
- 0.990
 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.995
- 0.090
- 0.016 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.011
0.932 | - 0.000
- 0.000
- 0.003
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
0.905
- 0.002 | - 0.000
- 0.000
- 0.000
- 0.014
- 0.001
- 0.002
 | - 0.000
- 0.000
- 0.012
- 0.001
- 0.000
 | - 0.000
- 0.000
- 0.000
- 0.001
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.002
- 0.000
- 0.001
 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.0018 - 0.0018 - 0.0018 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.0013 - 0.0004 - 0. | - 0.000 - 0 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.001 - 0 0.159 - 0
 | | 0.002
0.000 -
0.000 -
0.000 -
0.017 -
0.004 -
0.001 -
-
0.003 -
0.004 - | 0.001 - 0.000 - 0.000 - 0.003 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - | - 0.000
- 0.013
- 0.000
- 0.002
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.002
- 0.001
- 0.000 | - 0.011
 | - 0.000 - 0.003 - 0.000 - 0.019 - 0.004 - 0.000 0.006 | - 0.002
- 0.013
- 0.000
- 0.077
- 0.007
- 0.003 | - 0.001
- 0.018
- 0.000
- 0.008
- 0.001
- 0.000 | - 0.001
- 0.001
- 0.000
- 0.003
- 0.001
- 0.006
0.000 | - 0.002
- 0.000
- 0.000
- 0.001
- 0.007
- 0.001
- 0.001
- 0.001
- 0.000
 | - 0.000
- 0.001
- 0.000
- 0.006
- 0.003
- 0.001 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.010
- 0.002
- 0.000
- 0.000
- 0.000 | -
-
- 0.000
-
-
-
- |
 |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.001
- 0.000
- 0.000
 | - 0.000
- 0.005
- 0.000
- 0.002
- 0.001
- 0.000
0.003
- 0.000 | - 0.000
- 0.000
- 0.015
- 0.000
- 0.001
- 0.000
- 0.000
0.001
- 0.000 | 0.984
- 0.000
- 0.014
- 0.000
- 0.003
- 0.000
- 0.000
 | - 0.986
0.000
- 0.007
- 0.001
- 0.014
0.001 | - 0.000
0.989
- 0.000
- 0.002
- 0.002
- 0.000
0.000
- 0.001
- 0.000 | -
- 0.003
0.730
- 0.004
- 0.001
- 0.002

- 0.008
- 0.002
- 0.002 | - 0.003
- 0.003
- 0.000
- 0.000
- 0.016
- 0.000
0.001
- 0.018
- 0.001
- 0.004 | - 0.000
- 0.001
- 0.002
- 0.002
- 0.000
- 0.000
- 0.000
- 0.001
 | - 0.000
- 0.000
- 0.002
- 0.001
0.990
 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.995
- 0.090
- 0.016 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.011
0.932
- 0.017
- 0.000 | - 0.000
- 0.000
- 0.003
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
0.905
- 0.002 | - 0.000
- 0.000
- 0.000
- 0.014
- 0.001
- 0.002
 | - 0.000

 | - 0.000
- 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.002
- 0.000
- 0.001
- 0.001
- 0.001
- 0.000 | - 0.000 - 0.001 - 0.001 - 0.018 - 0.092 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.0013 - 0.0004 - 0.0005 - 0 | - 0.000 - 0 - 0.000 - 0 0.001 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.001 - 0 0.159 - 0 0.002 - 0
 | | 0.002
-0.000 -
-0.000 -
-0.000 -
-0.001 -
-0.001 -
 | 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - | - 0.000
- 0.013
- 0.000
- 0.002
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
 | - 0.000
- 0.000 | - 0.000
- 0.000
- 0.002
- 0.001
- 0.000
- 0.000
- 0.0007
- 0.0007 | - 0.001
 | - 0.000 - 0.003 - 0.000 - 0.019 - 0.004 - 0.000 0.006 - 0.002 - 0.003 | - 0.002
- 0.013
- 0.000
- 0.077
- 0.007
- 0.003
 | - 0.001
- 0.018
- 0.000
- 0.008
- 0.001
- 0.000
0.003
- 0.006 | - 0.001
- 0.000
- 0.000
- 0.003
- 0.001
- 0.006
0.000
- 0.011
- 0.017 | - 0.002
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.001
- 0.000
- 0.002
- 0.004
 | - 0.000
- 0.001
- 0.000
- 0.006
- 0.003
- 0.001
0.002
- 0.001 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.010
- 0.002
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000 | -
-
- 0.000
-
-
-
-
-
-
- 0.002 |
 |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.000 | - 0.000
- 0.005
- 0.000
- 0.002
- 0.001
- 0.000
 | - 0.000
- 0.000
- 0.015
- 0.000
- 0.001
- 0.000
- 0.000 | 0.984
- 0.000
- 0.014
- 0.000
- 0.003
- 0.000
- 0.0000
- 0.00000
- 0.0000
- 0.00000
- 0.0000
- 0.00000
- 0.00000
- 0.0000
- 0.0000
- 0.0000
- 0.0000
- 0.0 | - 0.986
0.000
- 0.007
- 0.001
- 0.014
0.000

 | -0.000
0.989
-0.000
-0.002
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000 | - 0.003
0.730
- 0.004
- 0.001
- 0.002
- 0.008
- 0.002
- 0.002
- 0.002
- 0.003
- 0.001 | - 0.003
- 0.003
- 0.000
0.932
- 0.016
- 0.000
- 0.001
- 0.018
- 0.001
- 0.004
- 0.004 | -0.000
-0.001
-0.000
-0.002
0.999
-0.000
-0.000
-0.0001
-0.0001
-0.0001
-0.0001 | - 0.000
- 0.000
- 0.002
- 0.001
0.990
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.995
- 0.090
- 0.016 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.001
- 0.011
0.932
- 0.017
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.001
- 0.000
- 0.0000
- 0.000
- 0.00 | - 0.000
- 0.000
- 0.000
- 0.014
- 0.001
- 0.002
- 0.021
0.998
- 0.119
- 0.002
- 0.002
- 0.003 | - 0.000
- 0.000
- 0.012
- 0.001
- 0.000
- 0.000
- 0.003
- 0.030
- 0.982
- 0.002 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
0.014
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
 | - 0.000
- 0.000
- 0.000
- 0.002
- 0.000
- 0.001
- 0.001
- 0.000
- 0.002
- 0.002
- 0.071
- 0.999 | | - 0.000 - 0.00 | - 0.000 - 0 - 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.001 - 0 0.002 - 0 0.001 - 0 0.002 - 0 0.001 - 0 | | 0.002
0.000 -
0.000 -
0.001 -
0.001 -
0.001 -
-
0.003 -
0.003 -
0.004 -
0.002 -
0.008 -
0.008 - | 0.001 - 0.000 -
 | - 0.000
- 0.013
- 0.000
- 0.002
- 0.000
- 0.001
- 0.001
- 0.001 | - 0.000
- 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000 | - 0.000
- 0.000
- 0.002
- 0.001
- 0.000
0.007
- 0.007
- 0.034
- 0.009 | -
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
- | - 0.000
- 0.003
- 0.000
- 0.019
- 0.004
- 0.000

 | - 0.002
- 0.013
- 0.000
- 0.077
- 0.007
- 0.003
0.015
- 0.000
0.008 | - 0.001
- 0.018
- 0.000
- 0.008
- 0.001
- 0.000
0.003
- 0.006
- 0.001
- 0.002
- 0.0001 | - 0.001
- 0.001
- 0.000
- 0.003
- 0.001
- 0.006
- 0.001
- 0.011
- 0.017
- 0.096
- 0.018
- 0.005 | - 0.002
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.001
- 0.000
- 0.002
- 0.002
- 0.002
- 0.005
- 0.002
- 0.005
- 0.002
- 0.005
- 0.002
- 0.005
- 0.000 | - 0.000
- 0.001
- 0.000
- 0.006
- 0.003
- 0.001
0.002
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.010
- 0.002
- 0.000
- 0.0000
- 0.000
- 0.00 | - 0.000
 | |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.001
- 0.000
- 0.000 | - 0.000
- 0.005
- 0.000
- 0.002
- 0.000
- 0.000
- 0.003
- 0.000
- 0.000
- 0.003
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.015
- 0.000
- 0.001
- 0.000
- 0.000 | 0.984
- 0.000
- 0.014
- 0.000
- 0.003
- 0.000
- 0.000

 | - 0.986
- 0.000
- 0.007
- 0.001
- 0.014
0.001
- 0.000
 | -0.000
0.989
-0.000
-0.002
-0.000
-0.000
-0.000
-0.001
-0.000
-0.000
-0.001
-0.000 | - 0.003
0.730
- 0.004
- 0.001
- 0.002
- 0.008
- 0.002
- 0.002
- 0.002
- 0.003
- 0.001 | - 0.003
- 0.003
- 0.000
0.932
- 0.006
- 0.000
0.018
- 0.001
- 0.004
- 0.004
- 0.004 | -0.000
-0.001
-0.000
-0.002
0.999
-0.000
-0.000
-0.000
-0.000
-0.001
-0.006
-0.001
-0.000
 | - 0.000
- 0.000
- 0.000
- 0.002
- 0.001
- 0.990
0.024
- 0.002
- 0.113
- 0.007
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.995
- 0.090
- 0.016
- 0.000 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.001
- 0.001
- 0.017
- 0.000
- 0.000
- 0.003
- 0.002
- 0.000 | - 0.000
- 0.000
- 0.003
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.014
- 0.001
- 0.002
 | - 0.000
- 0.000
- 0.012
- 0.001
- 0.000
- 0.031
- 0.031
- 0.030
0.982
- 0.002
- 0.002
 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
0.014
- 0.000
- 0.092
- 0.092
- 0.005
- 0.005 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.002
- 0.001
- 0.001
- 0.001
- 0.000
- 0.007
- 0.000
- 0.000
- 0.000
- 0.000 | - 0.000 - 0.000 - 0.001 - 0.018 - 0.092 - 0.001 - 0.098 | - 0.000 - 0.00 | - 0.000 - 0 - 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0
 | | 0.002 | 0.001 0.000 - | - 0.000 - 0.013 - 0.000 - 0.013 - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000
 | - 0.000
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.002
- 0.000
- 0.000
- 0.007
- 0.007
- 0.007
- 0.034
- 0.009
- 0.000 | -
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
- | - 0.000 - 0.003 - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.0002 - 0.0002 - 0.0002 - 0.0032 - 0.0012 - 0.0000 | - 0.002
- 0.003
- 0.000
- 0.077
- 0.003
 | - 0.001
- 0.018
- 0.000
- 0.008
- 0.001
- 0.000
0.003
- 0.006
- 0.001
- 0.002
- 0.0001 | | - 0.002
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.001
- 0.002
- 0.002
- 0.004
- 0.005
- 0 | - 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.0001
0.001
0.002
- 0.001
- 0.0002
- 0.0002
- 0.0003
- 0.0003
 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.010
- 0.000
- 0.0000
- 0.000
- 0.00 | - 0.000 | |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.0000
- 0.000
- 0.00 | - 0.000
- 0.005
- 0.000
- 0.000
- 0.000
- 0.000
 | - 0.000
- 0.000
- 0.015
- 0.000
- 0 | 0.984 - 0.000 - 0.014 - 0.000 - 0.003 - 0.000 - 0.000 - 0.000 0.000 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.986
0.000
- 0.007
- 0.001
- 0.014
0.000
 | -0.000
0.989
-0.000
-0.002
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000 | - 0.003
0.730
- 0.004
- 0.001
- 0.002
- 0.008
- 0.002
- 0.002
- 0.002
- 0.003
- 0.001
- 0.000
- 0.001
 | - 0.003
- 0.003
- 0.000
0.932
- 0.001
- 0.001
- 0.001
- 0.018
- 0.001
- 0.004
- 0.004
- 0.004
- 0.004
- 0.0004
- 0.0004 | -0.000
-0.001
-0.000
-0.002
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000 | -0.000
-0.000
-0.000
-0.002
-0.001
-0.001
-0.002
-0.002
-0.113
-0.007
-0.001
-0.000
-0.000 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.995
- 0.090
- 0.016
- 0.000
 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.000
- 0.017
- 0.000
- 0.0000
- 0.000
- 0.00 | - 0.000
- 0.000
- 0.003
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.014
- 0.001
- 0.002
- 0.021
0.998
- 0.119
- 0.002
-
0.003
- 0.003
- 0.003
- 0.003
- 0.003 | - 0.000
- 0.000
- 0.012
- 0.001
- 0.000
- 0.031
- 0.031
- 0.030
0.982
- 0.002
- 0.002
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
0.014
- 0.000
- 0.092
- 0.005
- 0.005
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.002
- 0.001
- 0.002
- 0.07
0.999
- 0.000
- 0.018 | - 0.000 - 0.000 - 0.001 - 0.018 - 0.001 - 0.001 - 0.001 - 0.018 - 0.092 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0008
 | - 0.000 - 0.00 | - 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.001 - 0 0.002 - 0 0.002 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 | | 0.002 | 0.001 0.000 - | - 0.000 - 0.013 - 0.000 - 0.013 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 -
0.000 - 0.00 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.002
- 0.000
- 0.000
- 0.007
- 0.007
- 0.034
- 0.009
- 0.000
- 0.000
- 0.000 | -
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
- | - 0.000 - 0.003 - 0.000 - 0.019 - 0.004 - 0.000 0.000 0.000 0.000 - 0.000 - 0.0002 - 0.0002 - 0.0003 - 0.0002 - 0.0003 - 0.0002 - 0.0000 - 0.0006 - 0.0000 - 0.0006 | - 0.002
- 0.003
- 0.000
- 0.007
- 0.003
0.015
- 0.000
- 0.008
- 0.008
- 0.004
- 0.000
- 0.126
 | - 0.001
- 0.018
- 0.000
- 0.008
- 0.000
- 0.000
0.003
- 0.006
- 0.001
- 0.002
- 0.001
- 0.000 | | - 0.002
- 0.000
- 0.000
- 0.001
- 0.007
- 0.001
- 0.001
- 0.001
- 0.002
- 0.002 | - 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.003
- 0.001
0.002
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.010
- 0.000
- 0.0000
- 0.000
- 0.00 | - 0.000 0.002 0.000 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 |
 |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.001
- 0.000
- 0.0000
- 0.000
- 0.00 | - 0.000
- 0.005
- 0.000
- 0.002
- 0.000
- 0.000
- 0.003
- 0.000
- 0.000
- 0.003
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.015
- 0.000
- 0.001
- 0.000
- 0.000 | 0.984
- 0.000
- 0.014
- 0.000
- 0.003
- 0.000
- 0.000 | - 0.986
- 0.000
- 0.007
- 0.001
- 0.001
- 0.001
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0 | -0.000
0.989
-0.000
-0.002
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000 | - 0.003
0.730
- 0.004
- 0.001
- 0.002
- 0.008
- 0.002
- 0.002
- 0.002
- 0.003
- 0.001
 | - 0.003
- 0.003
- 0.000
0.932
- 0.001
- 0.001
- 0.001
- 0.018
- 0.001
- 0.004
- 0.004
- 0.004
- 0.004
- 0.0004
- 0.0004 | -0.000
-0.001
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.001
-0.000
-0.000
-0.000
-0.000
-0.000 | - 0.000
- 0.000
- 0.000
- 0.002
- 0.001
- 0.990
0.024
- 0.002
- 0.113
- 0.007
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.099
- 0.016
- 0.000
 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.001
- 0.001
- 0.017
- 0.000
- 0.000
- 0.003
- 0.002
- 0.000 | - 0.000
- 0.000
- 0.003
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.000
 | - 0.000
- 0.000
- 0.000
- 0.014
- 0.001
- 0.002
0.021
0.998
- 0.119
- 0.002
- 0.003
- 0.000
- 0.003
- 0.000 | - 0.000
- 0.000
- 0.012
- 0.001
- 0.000
- 0.031
- 0.031
- 0.030
0.982
- 0.002
- 0.002 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
0.014
- 0.000
- 0.092
- 0.092
- 0.005
- 0.005 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.002
- 0.001
- 0.001
- 0.001
-
0.000
- 0.007
- 0.000
- 0.000
- 0.000
- 0.000 | - 0.000 - 0.001 - 0.018 - 0.092 - 0.001 - 0.098 - 0.008 | - 0.000 - 0.00 | - 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.159 - 0 0.002 - 0 0.001 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 | | 0.002 | 0.001 0.000 -
 | - 0.000 - 0.013 - 0.000 - 0.013 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.00 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.002
- 0.000
- 0.000
- 0.007
- 0.007
- 0.007
- 0.034
- 0.009
- 0.000 | -
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
- | - 0.000 - 0.003 - 0.000 - 0.019 - 0.004 - 0.000 0.000 0.000 0.000 0.000 - 0.000
 | - 0.002
- 0.003
- 0.000
- 0.077
- 0.003
 | - 0.001
- 0.018
- 0.000
- 0.008
- 0.001
- 0.000
0.003
- 0.006
- 0.001
- 0.002
- 0.0001 | | - 0.002
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.001
- 0.002
- 0.002
- 0.004
- 0.005
- 0 | - 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.003
- 0.001
0.002
- 0.001
- 0.000
- | - 0.000
- 0.000
- 0.001
- 0.000
- 0.010
- 0.000
- 0.0000
- 0.000
- 0.00 | - 0.000 | |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0 | - 0.000
- 0.005
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.001
- 0.035
- 0.004
- 0.005
- 0.005
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0000
- 0.000
- 0. | - 0.000
- 0.000
- 0.015
- 0.000
- 0.001
- 0.000
- 0.000
- 0.001
- 0.000
- 0 | 0.984 - 0.000 - 0.014 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.986
- 0.000
- 0.007
- 0.001
- 0.001
- 0.001
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0 | -0.000
0.989
-0.000
-0.002
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000
-0.000 | - 0.003
0.730
- 0.004
- 0.001
- 0.002
- 0.008
- 0.002
- 0.002
- 0.002
- 0.003
- 0.001
- 0.000
- 0.001 | - 0.003
- 0.003
- 0.000
0.932
- 0.016
- 0.000
- 0.018
- 0.001
- 0.004
- 0.010
- 0.004
- 0.000
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.001
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
 | -0.000
-0.000
-0.002
-0.001
0.990
-0.002
-0.013
-0.007
-0.001
-0.000
-0.000
-0.000 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.099
- 0.016
- 0.000
 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.011
0.932
- 0.017
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0 | - 0.000
- 0.000
- 0.003
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.002
- 0.002
- 0.002
- 0.002
- 0.000
- 0 | - 0.000
- 0.000
- 0.000
- 0.014
- 0.001
- 0.002
0.021
0.998
- 0.119
- 0.002
- 0.003
- 0.000
- 0.003
- 0.000 | - 0.000
- 0.000
- 0.001
- 0.001
- 0.000
- 0.003
- 0.031
- 0.030
- 0.982
- 0.002
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000
 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.000
- 0.002
- 0.071
0.999
- 0.000
- 0.018
- 0.000
- 0.018 | - 0.000 - 0.001 - 0.001 - 0.018 - 0.092 - 0.071 - 0.001 - 0.098 - 0.008 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.002 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.00 | - 0.000 - 0 - 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.001 - 0 0.001 - 0 0.002 - 0 0.001 - 0 0.000 - 0 0. | | 0.002 | 0.001 - 0.000 -
0.000 - 0.000 | - 0.000 - 0.013 - 0.000 - 0.013 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.0056 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.002
- 0.000
- 0.000
- 0.007
- 0.007
- 0.034
- 0.009
- 0.000
- 0.000
- 0.000 | -
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
- | - 0.000 - 0.003 - 0.000 - 0.019 - 0.004 - 0.000 0.000 0.000 0.000 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 -
0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.002
- 0.002
- 0.013
- 0.000
- 0.077
- 0.003
0.015
- 0.000
0.008
- 0.008
- 0.004
- 0.000
- 0.0126
- 0.000 | - 0.001
- 0.018
- 0.000
- 0.008
- 0.000
0.000
0.003
- 0.006
- 0.001
- 0.002
- 0.001
- 0.000
- 0.001
- 0.000 | -0.001 -0.001 -0.000 -0.000 -0.000 -0.000 -0.001 -0.000 -0.011 -0.017 -0.096 -0.018 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 | - 0.002
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.001
- 0.000
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000 | - 0.000
- 0.001
- 0.000
- 0.000
- 0.0003
- 0.001
0.000
- 0.000
- 0 | -0.000 -0.000 -0.001 -0.000 -0.001 -0.000
 | - 0.000 - 0.00 | - 0.000 - 0.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0 | - 0.000
- 0.005
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.001
- 0.000
- 0.00 | - 0.000
- 0.000
- 0.015
- 0.000
- 0.001
- 0.000
- 0 | 0.984 - 0.000 - 0.014 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.986
- 0.000
- 0.007
- 0.001
- 0.014
- 0.001
- 0.001
- 0.000
- 0.000
- 0.000
- 0.075
- 0.000 | -0.000 0.989 -0.000 -0.002 -0.000 | - 0.003
0.730
- 0.001
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.003
- 0.001
- 0.000
- 0.013
- 0.000 | - 0.003
- 0.003
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.004
- 0.000
- 0.00 | - 0.000
- 0.001
- 0.000
- 0.000
- 0.099
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0000
- 0.000
- 0. | -0.000 -0.000 -0.000 -0.000 -0.001 -0.990 -0.024 -0.002 -0.0113 -0.007 -0.001 -0.000 -0.046 -0.000 -0.046 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.016
- 0.000
- 0.016
- 0.000
- 0.019
- 0.019 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.011
0.932
- 0.017
- 0.000
- 0.0000
- 0.000
- 0.00 | - 0.000
- 0.000
- 0.003
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.002
- 0.002
- 0.002
- 0.002
- 0.000
- 0.0000
- 0.000
- 0.00 | - 0.000
- 0.000
- 0.000
- 0.001
- 0.001
- 0.002
- 0.021
- 0.021
- 0.002
- 0.013
- 0.000
- 0.053
- 0.0058
- 0.039 | - 0.000
- 0.000
- 0.012
- 0.001
- 0.000
- 0.031
- 0.031
- 0.032
- 0.002
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.001
- 0.000
- 0.00 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.001
- 0.001
- 0.000
- 0.002
- 0.071
0.999
- 0.000
- 0.018
- 0.000 | - 0.000 - 0.001 - 0.001 - 0.018 - 0.092 - 0.071 - 0.001 - 0.098 - 0.008 | - 0.000 - 0.00 | - 0.000 - 0 - 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.001 - 0 0.001 - 0 0.002 - 0 0.001 - 0 0.000 - 0 0. | | 0.002 | 0.001 - 0.000 | - 0.000 - 0.013 - 0.000 - 0.013 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.0056 - 0.001 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000
- 0.000
- 0.002
- 0.001
- 0.000
- 0.007
- 0.007
- 0.007
- 0.004
- 0.009
- 0.000
- 0.000
- 0.000
- 0.000 | | - 0.000 - 0.003 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.002 - 0.002 - 0.003 - 0.002 - 0.003 - 0.002 - 0.006 - 0.000 - 0.006 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.001 - 0.001 - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.0001 - | - 0.002
- 0.002
- 0.013
- 0.000
- 0.007
- 0.003
 | - 0.001
- 0.018
- 0.000
- 0.008
- 0.000
0.000
0.003
- 0.006
- 0.001
- 0.002
- 0.001
- 0.000
- 0.001
- 0.000 | -0.001 -0.001 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.011 -0.017 -0.096 -0.018 -0.000 -0.000 -0.001 -0.000 -0.000 -0.0001 -0.000 | - 0.002
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.001
- 0.000
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.000
- 0.000 | - 0.000
- 0.001
- 0.000
- 0.00 | -0.000 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.001 -0.001 | - 0.000 0.000 0.000 | |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.010
- 0.000
- 0 | - 0.000
- 0.005
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.001
- 0.000
- 0.002
- 0.000
- 0.002
- 0.000
- 0.00 | - 0.000
- 0.000
- 0.015
- 0.000
- 0.001
- 0.000
- 0.000 | 0.984 - 0.000 - 0.014 - 0.000 - 0.003 - 0.000 - 0.000 - 0.000 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.986
- 0.000
- 0.007
- 0.001
- 0.001
- 0.001
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0 | -0.000 0.989 -0.000 -0.002 -0.000 | - 0.003
0.730
- 0.004
- 0.001
- 0.002
- 0.008
- 0.002
- 0.002
- 0.003
- 0.001
- 0.000
- 0.013
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0 | - 0.003
- 0.003
- 0.000
0.932
- 0.006
- 0.000
- 0.018
- 0.001
- 0.004
- 0.004
- 0.000
- 0.004
- 0.000
- 0.000 | -0.000 -0.001 -0.000 | -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.001 -0.001 -0.001 -0.000 -0.046 -0.000 -0.044 -0.000 -0.0040 -0.004 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.099
- 0.016
- 0.000
 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.011
0.932
- 0.017
- 0.000
- 0.003
- 0.002
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0 | - 0.000
- 0.000
- 0.003
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.002
- 0.002
- 0.002
- 0.000
- 0 | - 0.000
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.002
- 0.011
- 0.098
- 0.119
- 0.002
- 0.013
- 0.000
- 0.053
- 0.000
- 0.053
- 0.000
- 0.053
- 0.000
- 0.059 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.003 - 0.031 - 0.030 - 0.982 - 0.002 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.0001 - 0.0004 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.014
- 0.000
- 0.000
- 0.005
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.000
- 0.002
- 0.071
0.999
- 0.000
- 0.018
- 0.000
- 0.018 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.008 - 0.008 - 0.008 - 0.008 - 0.008 - 0.0001 | - 0.000 - 0.00 | - 0.000 - 0 - 0.00 | | 0.002 | 0.001 0.000 - 0.00 | - 0.000 | - 0.000 - 0.00 | - 0.000
- 0.000 | - 0.000 - 0.000 - 0.000 - 0.002 - 0.001 - 0.000 | | - 0.000 | - 0.002
- 0.002
- 0.013
- 0.000
- 0.077
- 0.003
0.015
- 0.000
0.008
- 0.008
- 0.004
- 0.000
- 0.0126
- 0.000 | - 0.001
- 0.018
- 0.000
- 0.008
- 0.000
- 0.001
- 0.003
- 0.006
- 0.001
- 0.002
- 0.001
- 0.000
- 0.001
- 0.000
- 0.001
- 0.000 | | - 0.002
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.001
- 0.002
- 0.000
- 0.002
- 0.000
- 0.002
- 0.000
- 0 | - 0.000
- 0.001
- 0.000
- 0.006
- 0.003
- 0.001
0.002
- 0.001
- 0.000
- 0.002
- 0.003
- 0.000
- 0.008
- 0.000
- 0. | - 0.000 - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 | - 0.000 - 0.00 | |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.0000
- 0.000
- 0.00 | - 0.000
- 0.005
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.001
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0000
- 0.000
- 0. | - 0.000
- 0.000
- 0.015
- 0.000
- 0.001
- 0.000
- 0 | 0.984 - 0.000 - 0.014 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.986
- 0.000
- 0.007
- 0.001
- 0.014
- 0.001
- 0.001
- 0.000
- 0.000
- 0.000
- 0.075
- 0.000 | -0.000 0.989 -0.000 -0.002 -0.000 | - 0.003
0.730
- 0.004
- 0.001
- 0.002
- 0.008
- 0.002
- 0.002
- 0.003
- 0.001
- 0.000
- 0.013
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0 | - 0.003
- 0.003
- 0.000
0.932
- 0.006
- 0.000
- 0.018
- 0.001
- 0.004
- 0.004
- 0.000
- 0.004
- 0.000
- 0.000 | -0.000 -0.001 -0.000 | -0.000 -0.000 -0.000 -0.000 -0.001 -0.990 -0.024 -0.002 -0.0113 -0.007 -0.001 -0.000 -0.046 -0.000 -0.046 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.099
- 0.016
- 0.000
 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.011
0.932
- 0.017
- 0.000
- 0.0000
- 0.000
- 0.00 | - 0.000
- 0.000
- 0.003
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.002
- 0.002
- 0.002
- 0.002
- 0.000
- 0.0000
- 0.000
- 0.00 | - 0.000
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.002
- 0.011
- 0.098
- 0.119
- 0.002
- 0.013
- 0.000
- 0.053
- 0.000
- 0.053
- 0.000
- 0.053
- 0.000
- 0.059 | - 0.000
- 0.000
- 0.012
- 0.001
- 0.000
- 0.031
- 0.031
- 0.032
- 0.002
- 0.000
- 0.000 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.001
- 0.000
- 0.00 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.018 - 0.000 - 0.018 - 0.000 - 0.016 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.008 - 0.008 - 0.008 - 0.008 - 0.008 - 0.0001 | - 0.000 - 0.00 | - 0.000 - 0 - 0.00 | | 0.002 | 0.001 - 0.000 | - 0.000 | - 0.000 - 0.00 | - 0.000
- 0.000 | - 0.000
- 0.000
- 0.002
- 0.001
- 0.000
- 0.007
- 0.007
- 0.007
- 0.004
- 0.009
- 0.000
- 0.000
- 0.000
- 0.000 | | - 0.000 - 0.003 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.002 - 0.002 - 0.003 - 0.002 - 0.003 - 0.002 - 0.006 - 0.000 - 0.006 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.001 - 0.001 - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.0001 - | - 0.002
- 0.002
- 0.013
- 0.000
- 0.007
- 0.003
 | - 0.001
- 0.018
- 0.000
- 0.008
- 0.000
0.000
0.003
- 0.006
- 0.001
- 0.002
- 0.001
- 0.000
- 0.001
- 0.000 | -0.001 -0.001 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.011 -0.017 -0.096 -0.018 -0.000 -0.000 -0.001 -0.000 -0.000 -0.0001 -0.000 | - 0.002
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.001
- 0.000
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.000
- 0.000 | - 0.000
- 0.001
- 0.000
- 0.006
- 0.003
- 0.001
0.002
- 0.001
- 0.000
- 0.002
- 0.003
- 0.000
- 0.008
- 0.000
- 0. | -0.000 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.001 -0.001 | - 0.000 0.000 0.001 | |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0 | - 0.000 - 0.005 - 0.000 - 0.002 - 0.000 | - 0.000
- 0.000
- 0.015
- 0.000
- 0.001
- 0.000
- 0.000 | 0.984 - 0.000 - 0.014 - 0.000 - 0.003 - 0.000 - 0.000 - 0.000 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.986
- 0.000
- 0.007
- 0.001
- 0.014
- 0.001
- 0.000
- 0.000
- 0.000
- 0.075
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000 | -0.000 0.989 -0.000 -0.002 -0.000 | - 0.003
0.730
- 0.004
- 0.001
- 0.002
- 0.008
- 0.002
- 0.002
- 0.003
- 0.001
- 0.000
- 0.013
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0 | - 0.003
- 0.003
- 0.000
- 0.001
- 0.001
- 0.001
- 0.004
- 0.000
- 0.004
- 0.000
- 0.00 | -0.000 -0.001 -0.000 | -0.000 -0.000 -0.000 -0.000 -0.000 -0.002 -0.001 -0.002 -0.0113 -0.007 -0.001 -0.000 -0.046 -0.000 -0.044 -0.004 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.016
- 0.000
- 0.019
- 0.019
- 0.000
- 0.001 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.011
0.932
- 0.017
- 0.000
- 0.003
- 0.002
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0 | - 0.000 - 0.001 - 0.000 - 0.001 - 0.001 - 0.001 - 0.003 | - 0.000
- 0.000
- 0.000
- 0.014
- 0.001
- 0.001
- 0.002
- 0.019
- 0.002
- 0.013
- 0.000
- 0.053
- 0.000
- 0.053
- 0.009
- 0.059
- 0.009
- 0 | - 0.000
- 0.000
- 0.001
- 0.001
- 0.000
- 0.001
- 0.031
- 0.030
0.982
- 0.002
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0 | - 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0000
- 0.000
- 0. | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.018 - 0.000 - 0.016 - 0.001 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.008 - 0.008 - 0.008 - 0.001 - 0.001 - 0.00 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.002 - 0.001 - 0.002 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.00 | - 0.000 - 0 - 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.001 - 0 0.001 - 0 0.002 - 0 0.001 - 0 0.005 - 0 0.002 - 0 0.005 - 0 0.006 - 0 0.006 - 0 0.007 - 0 0.008 - 0 0.0099 - 0 0.002 - 0 0.0099 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 | | 0.002 | 0.001 - 0.000 | - 0.000 | - 0.000
- 0.000
- 0.000
- 0.001
- 0.000
- 0.00 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.007 - 0.007 - 0.0034 - 0.009 - 0.0067 - 0.000 - 0.0067 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | | - 0.000 - 0.003 - 0.000 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.002 - 0.003 - 0.032 - 0.012 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 | - 0.002
- 0.003
- 0.000
- 0.077
- 0.007
- 0.003
 | - 0.001 - 0.018 - 0.000 - 0.008 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 | -0.001 -0.001 -0.001 -0.000 -0.000 -0.001 -0.000 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.000 -0.011 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 | - 0.002
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.001
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.000
- 0.0000
- 0.00000
- 0.0000
- 0.0000 | - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.002 - 0.003 - 0.000 - 0.00 | -0.000 -0.000 -0.001 -0.000 -0.001 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.000 -0.000 -0.001 -0.000 -0.001 -0.000 -0.000 -0.000 | - 0.000 0.000 0.003 0.000 | |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0 | - 0.000 - 0.005 - 0.000 - 0.005 - 0.000 - 0.001 - 0.003 - 0.000 - 0.001 - 0.003 - 0.000 - 0.002 - 0.000 - 0.002 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 - 0.000 - 0.0015 - 0.000 - 0.001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 | 0.984 - 0.000 - 0.014 - 0.000 | - 0.986
- 0.000
- 0.000
- 0.001
- 0.014
- 0.001
- 0.000
- 0.000
- 0.075
- 0.000
- 0.004
- 0.0004
- 0.0001
 | -0.000 0.989 -0.0001 -0.0001 -0.0001 | - 0.003
- 0.003
- 0.004
- 0.001
- 0.002
- 0.002
- 0.003
- 0.002
- 0.003
- 0.001
- 0.000
- 0.001
- 0.000
- 0.0000
- 0.000
- 0.00 | - 0.003
- 0.003
- 0.000
- 0.001
- 0.001
- 0.001
- 0.004
- 0.000
- 0.004
- 0.000
- 0.00 | - 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.001
- 0.006
- 0.001
- 0.000
- 0.00 | -0.000 -0.000 -0.000 -0.000 -0.001 -0.990 -0.013 -0.007 -0.001 -0.000 -0.000 -0.000 -0.004 -0.004 -0.004 -0.004 -0.005 -0.005 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.016
- 0.019
- 0.000
- 0.015
- 0.000
- 0.001 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.011
0.932
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0 | - 0.000
- 0.000
- 0.003
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.002
- 0.002
- 0.002
- 0.002
- 0.000
- 0.0000
- 0.00000
- 0.0000
- 0.00000
- 0.0000
- 0 | - 0.000
- 0.000
- 0.000
- 0.001
- 0.001
- 0.002
- 0.021
- 0.021
- 0.002
- 0.013
- 0.000
- 0.058
- 0.039
- 0.079
- 0.079
- 0.001 | - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.003 - 0.031 - 0.030 - 0.982 - 0.002 - 0.002 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 | - 0.000
 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.002 - 0.071 0.999 - 0.000 - 0.018 - 0.000 - 0.016 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.008 - 0.001 - 0.000 - 0.001 - 0.000 - 0.00 | - 0.000 - 0.00 | - 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.001 - 0 0.001 - 0 0.001 - 0 0.002 - 0 0.001 - 0 0.000 - 0 0.00 | | 0.002 | 0.001 - 0.000 -
0.000 - 0.000 | - 0.000 - 0.013 - 0.000 - 0.013 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 | - 0.000
- 0.000
- 0.000
- 0.001
- 0.000
- 0.00 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.007 - 0.007 - 0.034 - 0.009 - 0.000 - 0.007 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | | - 0.000 - 0.003 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.005 - 0.005 - 0.0005 | - 0.002
- 0.002
- 0.013
- 0.000
- 0.007
- 0.003
0.005
- 0.008
- 0.014
- 0.000
- 0.126
- 0.000
- 0.126
- 0.000
- 0.010
0.000
0.000
 | - 0.001
- 0.018
- 0.000
- 0.000
- 0.000
0.003
- 0.006
- 0.001
- 0.002
- 0.001
- 0.000
- 0.001
- 0.000
- 0.001
- 0.000
- 0.001
- 0.000
- 0.001
- 0.000 | -0.001 -0.001 -0.003 -0.003 -0.000 -0.001 -0.006 -0.001 -0.001 -0.009 -0.011 -0.009 -0.018 -0.000 | - 0.002
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.001
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.000
- 0.002
- 0.000
- 0.002
- 0.000
- 0.002
- 0.000
- 0.001
- 0.001 | - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.00 | -0.000 -0.000 -0.001 -0.000 -0.001 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.001 -0.001 -0.001 -0.001 -0.000 -0.001
 | - 0.000 - 0.00 | |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0 | - 0.000 - 0.005 - 0.000 - 0.005 - 0.000 | - 0.000 - 0.000 - 0.015 - 0.000 - 0.001 - 0.000 | 0.984 - 0.000 - 0.014 - 0.000 - 0.003 - 0.000 - 0.000 0.000 0.005 - 0.005 - 0.006 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.986
- 0.000
- 0.007
- 0.001
- 0.014
- 0.001
- 0.000
- 0.000
- 0.000
- 0.075
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
 | -0.000 0.989 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.000 | - 0.003
0.7300
- 0.001
- 0.002
- 0.002
- 0.002
- 0.002
- 0.003
- 0.001
- 0.000
- 0.013
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0 | - 0.003
- 0.003
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.004
- 0.000
- 0.00 | - 0.000 - 0.001 - 0.000 | -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.990 -0.001 -0.002 -0.013 -0.007 -0.001 -0.000 -0.040 -0.040 -0.040 -0.041 -0.005 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.016
- 0.019
- 0.000
- 0.015
- 0.000
- 0.001 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.011
0.932
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0 | - 0.000 - 0.003 - 0.000 - 0.003 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.002 - 0.002 - 0.002 - 0.000 - 0.001 - 0.003 - 0.001 - 0.003 - 0.001 - 0.003 - 0.003 - 0.003 - 0.003 - 0.003 - 0.003 | - 0.000
- 0.000
- 0.000
- 0.001
- 0.014
- 0.001
- 0.021
- 0.021
0.998
- 0.119
- 0.002
- 0.013
- 0.000
- 0.058
- 0.039
- 0.039
- 0.003
- 0.003 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.003 - 0.031 - 0.030 - 0.982 - 0.002 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001
 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.000 - 0.002 - 0.071 0.999 - 0.000 - 0.018 - 0.000 - 0.016 - 0.016 - 0.000 - 0.000 - 0.016 - 0.000 - 0.000 | - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.008 - 0.008 - 0.001 - 0.000 - 0.00 | - 0.000 - 0.00 | - 0.000 - 0 - 0.000 - 0 - 0.000 - 0 - 0.000 - 0 - 0.000 - 0 - 0.000 - 0 - 0.001 - 0 - 0.001 - 0 - 0.001 - 0 - 0.002 - 0 - 0.005 - 0 - 0.005 - 0 - 0.005 - 0 - 0.007 - 0
- 0.007 - 0 - 0.00 | | 0.002 | 0.001 - 0.000 | - 0.000 - 0.013 - 0.000 - 0.013 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.342 - 0.001 - 0.000 - 0.000 - 0.000 - 0.006 - 0.001 - 0.006 - 0.001 - 0.000 | - 0.000
- 0.000
- 0.000
- 0.001
- 0.000
- 0.00 | - 0.000 - 0.00 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.007 - 0.007 - 0.034 - 0.009 - 0.000 - 0.007 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 -
0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | | - 0.000 - 0.003 - 0.000 - 0.001 - 0.001 - 0.004 - 0.006 - 0.002 - 0.003 - 0.003 - 0.003 - 0.003 - 0.003 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 | - 0.002
- 0.002
- 0.013
- 0.000
- 0.007
- 0.003
 | - 0.001
- 0.018
- 0.000
- 0.000
- 0.000
0.003
- 0.006
- 0.001
- 0.002
- 0.001
- 0.000
- 0.001
- 0.000
- 0.001
- 0.000
- 0.001
- 0.000
- 0.001
- 0.000 | -0.001 -0.001 -0.001 -0.000 -0.000 -0.001 -0.000 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.000 -0.011 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 | - 0.002
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.001
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.000
- 0.002
- 0.000
- 0.002
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.001
- 0.001
- 0.001
- 0.001
- 0.001
- 0.001 | - 0.000
- 0.001
- 0.000
- 0.003
- 0.001
- 0.002
- 0.000
- 0.00 | -0.000 -0.000 -0.000 -0.001 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.001 -0.001 -0.000 -0.001 -0.000 -0.000 -0.001 -0.000 -0.000 -0.001 -0.000 -0.000
-0.000 | - 0.000 0.000 0.015 0.000 0.000 | |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.010
- 0.000
- 0.010
- 0.000
- 0.001
- 0.000
- 0.001
- 0.000
- 0.000 | - 0.000 - 0.005 - 0.000 - 0.005 - 0.000 | - 0.000 - 0.000 - 0.015 - 0.000 - 0.001 - 0.000 | 0.984 - 0.000 - 0.014 - 0.000 | - 0.986
- 0.000
- 0.000
- 0.001
- 0.014
- 0.001
- 0.000
- 0.000
- 0.075
- 0.000
- 0.004
- 0.0004
- 0.0001
 | -0.000 | - 0.003
0.7004
- 0.001
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.003
- 0.001
- 0.000
- 0.013
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0 | - 0.003
- 0.003
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.004
- 0.000
- 0.001
- 0.000
- 0.00 | -0.000 -0.001 -0.000 | -0.000 -0.000 -0.000 -0.000 -0.001 -0.990 -0.013 -0.007 -0.001 -0.000 -0.000 -0.000 -0.004 -0.004 -0.004 -0.004 -0.005 -0.005 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.016 - 0.000 - 0.019 - 0.000 - 0.015 - 0.000 - 0.001 - 0.000 - 0.001 | - 0.000 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.011 - 0.000 - 0.001 - 0.000 - 0.003 - 0.002 - 0.000 - 0.015 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 | - 0.000 - 0.003 - 0.000 - 0.001 - 0.001 - 0.001 - 0.003 - 0.003 - 0.0003 - 0.0000 - 0.0000
 | - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.002 - 0.021 - 0.002 - 0.013 - 0.000 - 0.053 - 0.000 - 0.058 - 0.039 0.079 - 0.003 0.001 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.003 - 0.003 - 0.002 - 0.002 - 0.000 - 0.005 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.002 - 0.071 0.999 - 0.000 - 0.018 - 0.000 - 0.016 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 -
0.000 - 0.00 | - 0.000 - 0.00 | - 0.000 - 0 - 0.000 - 0 - 0.000 - 0 - 0.000 - 0 - 0.000 - 0 - 0.000 - 0 - 0.001 - 0 - 0.001 - 0 - 0.002 - 0 - 0.001 - 0 - 0.002 - 0 - 0.000 - 0 - 0.00 | | 0.002 -0.000 - 0.000 - 0.000 - 0.0010.0010.0010.003 0.004 0.000 0.000 | 0.001 0.000 - | - 0.000 - 0.013 - 0.000 - 0.013 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.0056 - 0.001 - 0.004 - 0.004 - 0.004 - 0.0056 - 0.001 - 0.004 - 0.000 - 0.004 - 0.000 - 0.000 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.00000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000
 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 | - 0.000
- 0.000
- 0.000
- 0.001
- 0.000
- 0.00 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.007 - 0.007 - 0.034 - 0.009 - 0.000 - 0.007 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | | - 0.000 - 0.003 - 0.000 - 0.001 - 0.001 - 0.004 - 0.002 - 0.003 - 0.002 - 0.003 - 0.003 - 0.003 - 0.003 - 0.001 - 0.000 - 0.001 - 0.00 | - 0.002
- 0.002
- 0.013
- 0.000
- 0.007
- 0.003
- 0.015
- 0.000
- 0.008
- 0.014
- 0.000
- 0.126
- 0.000
- 0.010
- 0.000
- 0.010
- 0.000
- 0.0000
- 0.000
- | - 0.001 - 0.018 - 0.000 - 0.008 - 0.000 - 0.000 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 | | - 0.002
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.001
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.000
- 0.029
- 0.000
- 0.000
- 0.001
- 0.001
 | - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.003 - 0.001 - 0.002 - 0.000 | -0.000 -0.000 -0.001 -0.000 -0.001 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 | - 0.000 - 0.00 | |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0 | - 0.000 - 0.005 - 0.000 - 0.005 - 0.000 | - 0.000 - 0.000 - 0.015 - 0.000 - 0.001 - 0.000 | 0.984 - 0.000 - 0.014 - 0.000 | - 0.986
- 0.000
- 0.000
- 0.001
- 0.014
- 0.001
- 0.000
- 0.000
- 0.075
- 0.000
- 0.004
- 0.0004
- 0.0001
 | -0.000 | - 0.003
- 0.003
- 0.004
- 0.001
- 0.002
- 0.002
- 0.003
- 0.002
- 0.003
- 0.001
- 0.000
- 0.0000
- 0.000
- 0.00 | - 0.003
- 0.003
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.004
- 0.000
- 0.00 | -0.000 -0.001 -0.000 | -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.001 -0.002 -0.0113 -0.007 -0.001 -0.000 -0.046 -0.000 -0.046 -0.000 -0.041 -0.004 -0.005 -0.005 -0.005 | - 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.016
- 0.019
- 0.000
- 0.015
- 0.000
- 0.001 | - 0.000
- 0.000
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.011
0.932
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0 | - 0.000 - 0.003 - 0.000 - 0.003 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.002 - 0.002 - 0.002 - 0.000 - 0.001 - 0.003 - 0.001 - 0.003 - 0.001 - 0.003 - 0.003 - 0.003 - 0.003 - 0.003 - 0.003 | - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.002 - 0.021 - 0.002 - 0.013 - 0.000 - 0.053 - 0.000 - 0.058 - 0.039 0.079 - 0.003 0.001 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.003 - 0.031 - 0.030 - 0.982 - 0.002 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001
 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.000 - 0.002 - 0.071 0.999 - 0.000 - 0.018 - 0.001 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.00 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.002 - 0.001 - 0.001 - 0.001 - 0.000 - 0.00 | - 0.000 - 0 0.000 -
0 0.000 - 0 0.00 | | 0.002 | 0.001 - 0.000 | - 0.000 | - 0.000
- 0.000
- 0.000
- 0.001
- 0.000
- 0.00 | - 0.000 - 0.00 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.007 - 0.007 - 0.003 - 0.009 - 0.000 - 0.007 - 0.000 - 0.000 - 0.000 -
0.000 - 0.000 | | - 0.000 - 0.003 - 0.000 - 0.001 - 0.001 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.001 - 0.000 - 0.0001 - 0.001 - 0.000 - 0.0001 - 0.00 | - 0.002
- 0.002
- 0.013
- 0.000
- 0.007
- 0.003
 | - 0.001
- 0.018
- 0.000
- 0.000
- 0.000
0.003
- 0.006
- 0.001
- 0.002
- 0.001
- 0.000
- 0.001
- 0.000
- 0.001
- 0.000
- 0.001
- 0.000
- 0.001
- 0.000 | -0.001 -0.001 -0.003 -0.003 -0.000 -0.001 -0.006 -0.001 -0.001 -0.009 -0.011 -0.009 -0.018 -0.000 | - 0.002
- 0.000
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.000
- 0.002
- 0.001
- 0.001 | - 0.000 - 0.001 - 0.000 - 0.003 - 0.001 - 0.000 - 0.002 - 0.000
 | -0.000 -0.000 -0.000 -0.001 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.001 -0.001 -0.000 -0.001 -0.000 -0.000 -0.001 -0.000 -0.000 -0.001 -0.000 -0.000 -0.000 | - 0.000 0.000 | |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.000 | - 0.000 - 0.005 - 0.000 - 0.005 - 0.000 - 0.001 - 0.003 - 0.000 - 0.001 - 0.035 - 0.004 - 0.000 - 0.002 - 0.0001 - 0.0001 - 0.0001 | - 0.000 - 0.000 - 0.001 - 0.001 - 0.000 | 0.984 - 0.000 - 0.014 - 0.000 - 0.003 - 0.000 | - 0.986
- 0.000
- 0.000
- 0.001
- 0.014
- 0.001
- 0.000
- 0.000
- 0.075
- 0.000
- 0.004
- 0.0004
- 0.0001
 | -0.000 -0.001 -0.001 -0.001 -0.001 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.000 -0.001 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 | - 0.003
0.7304
- 0.001
- 0.002
- 0.002
- 0.002
- 0.002
- 0.003
- 0.001
- 0.000
- 0.000
- 0.000
- 0.000
- 0.002
- 0.000
- 0. | - 0.003
- 0.000
- 0.000
- 0.001
- 0.001
- 0.018
- 0.001
- 0.004
- 0.000
- 0.001
- 0.000
- 0.000 | -0.000 -0.001 -0.000 | -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.002 -0.001 -0.002 -0.013 -0.007 -0.001 -0.000 -0.000 -0.004 -0.004 -0.004 -0.004 -0.0050.0050.001 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.016 - 0.000 - 0.019 - 0.000 - 0.0015 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.011 0.932 - 0.017 - 0.000 - 0.003 - 0.002 - 0.000 - 0.015 - 0.000 - 0.005 - 0.005 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000
 | - 0.000 - 0.003 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.000 - 0.001 - 0.001 - 0.003 - 0.003 - 0.003 - 0.0049 - 0.003 - 0.003 - 0.000 - 0.000 - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.002 - 0.003 - 0.003 - 0.003 - 0.003 - 0.003 - 0.000 - 0.003 - 0.003 - 0.000 - 0.003 - 0.000 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.003 - 0.031 - 0.030 - 0.982 - 0.002 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 | - 0.000 -
0.000 - 0.00 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.00 | - 0.000 - 0.00 | - 0.000 - 0.00 | | 0.002
 | 0.001 - 0.000 | - 0.000 - 0.013 - 0.000 - 0.013 - 0.000 - 0.00 | - 0.000 - 0.00 | - 0.000 - 0.00 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.007 - 0.007 - 0.0034 - 0.009 - 0.0067 - 0.000 -
0.000 - 0.000 | | - 0.000 - 0.003 - 0.000 - 0.004 - 0.000 - 0.000 - 0.002 - 0.003 - 0.002 - 0.003 - 0.002 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.006 - 0.001 - 0.006 - 0.000 - 0.001 - 0.006 - 0.000 - 0.001 - 0.006 - 0.000 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.002 - 0.013 - 0.000 - 0.077 - 0.007 - 0.007 - 0.005 - 0.005 - 0.008 - 0.014 - 0.000 - 0.126 - 0.000 | - 0.001 - 0.018 - 0.000 - 0.008 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 | -0.001 -0.001 -0.001 -0.000 -0.000 -0.001 -0.000 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.000 -0.011 -0.000 | - 0.002
- 0.000
- 0.000
- 0.000
- 0.001
- 0.001
- 0.001
- 0.001
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.002
- 0.000
- 0.002
- 0.001
- 0.001 | - 0.000 - 0.001 - 0.001 - 0.003 - 0.001 - 0.000 - 0.001 - 0.000 - 0.002 - 0.000 - 0.002 - 0.003 - 0.000
 | -0.000 -0.000 -0.001 -0.000 -0.001 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.000 -0.001 -0.001 -0.001 -0.001 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 | - 0.000 0.000 0.001 | |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.000 | - 0.000 - 0.005 - 0.000 - 0.005 - 0.000 - 0.001 - 0.003 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 | - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 | 0.984 - 0.000 - 0.014 - 0.000 | - 0.986
- 0.000
- 0.007
- 0.001
- 0.014
- 0.001
- 0.000
- 0.000
- 0.075
- 0.004
- 0.001
- 0.000
- 0.0000
- 0.000
- 0.00 | -0.000 -0.000 -0.000
-0.000 | - 0.003
0.730
- 0.004
- 0.001
- 0.002
- 0.002
- 0.002
- 0.002
- 0.003
- 0.001
- 0.000
- 0.000
- 0.000
- 0.002
- 0.000
- 0.0 | - 0.003
- 0.003
- 0.000
- 0.001
- 0.001
- 0.001
- 0.004
- 0.000
- 0.00 | -0.000 -0.001 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 | -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.002 -0.0113 -0.007 -0.001 -0.000 -0.004 -0.004 -0.004 -0.004 -0.0050.0050.0001 -0.0001 -0.0001 -0.0001 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 | - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 | - 0.000 - 0.003 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.003 - 0.001 - 0.003 - 0.001 - 0.003 - 0.000 - 0.003 - 0.000 - 0.000 - 0.000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.002 - 0.003 - 0.003 - 0.003 - 0.003 - 0.003 - 0.000 - 0.003 - 0.003 - 0.000 - 0.003 - 0.000 - 0.003
 | - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.003 - 0.003 - 0.002 - 0.000 - 0.000 - 0.001 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.000 - 0.002 - 0.071 0.999 - 0.000 - 0.018 - 0.016 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.00 | - 0.000 -
0.000 - 0.00 | - 0.000 - 0.00 | | 0.002 | 0.001 - 0.000 | - 0.000 - 0.013 - 0.000 - 0.013 - 0.000 - 0.001 - 0.000 - 0.00 | - 0.000 -
0.000 - 0.00 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.007 - 0.007 - 0.0034 - 0.009 - 0.000 | | - 0.000 - 0.003 - 0.000 - 0.003 - 0.000 - 0.000 - 0.001 - 0.001 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.00 | - 0.002 - 0.003 - 0.005 - 0.007 - 0.007 - 0.007 - 0.008 - 0.014 - 0.000 - 0.126 - 0.000 - 0.009 - 0.009 - 0.009 - 0.0888 - 0.001 - 0.009 - 0.009 - 0.009 - 0.009 - 0.0001 - 0.009 - 0.0001 - 0.0002 - 0.0001 - 0.0002 - 0.0001 - 0.0002 - 0.0001 - 0.0002 - 0.0001 - 0.0002 - 0.0001 - 0.0002 - 0.0001 - 0.0002 - 0.0001 - 0.0002 - 0.0001 - 0.0002 - 0.0001 - 0.0002 - 0.0001 - 0.0002 - 0.0001 - 0.0002 - 0.0001 - 0.0001 - 0.0002 - 0.0001 - 0.0001 - 0.0001 - 0.0002 - 0.0001
- 0.0001 | - 0.001 - 0.018 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | -0.001 -0.000 -0.000 -0.000 -0.001 -0.000 -0.001 -0.000 -0.011 -0.007 -0.006 -0.001 -0.000 | - 0.002 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.001 - 0.002 - 0.002 - 0.001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 | - 0.000 - 0.005 - 0.994 | -0.000 -0.000 -0.001 -0.000 -0.001 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.001 -0.001 -0.001 -0.000 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.000 -0.001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 | - 0.000 0.000 0.000
 | |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.000 | - 0.000 - 0.005 - 0.000 - 0.005 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 | - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 | 0.984 - 0.000 - 0.014 - 0.000 | - 0.986 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.000 - 0.075
 | -0.000 | - 0.003
- 0.003
- 0.000
- 0.001
- 0.002
- 0.002
- 0.002
- 0.002
- 0.003
- 0.001
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0000
- 0.000
- 0.000 | - 0.003 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.00 | -0.000 -0.001 -0.000 | -0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.016 - 0.000 - 0.015 - 0.001 - 0.000 - 0.015 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 | - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000
 | - 0.000 - 0.003 - 0.000 | - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.002 - 0.001 - 0.002 - 0.001 - 0.000 - 0.0053 - 0.000 - 0.053 - 0.000 - 0.053 - 0.000 - 0.053 - 0.000 - 0.053 - 0.000 - 0.053 - 0.000 - 0.055 - 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.003 - 0.031 - 0.032 - 0.002 - 0.002 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 | - 0.000
 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.000 - 0.002 - 0.071 0.999 - 0.000 - 0.018 - 0.001 | - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.00 | - 0.000 - 0.00 | - 0.000 - 0 - 0.000 - 0 - 0.000 - 0 - 0.000 - 0 - 0.000 - 0 - 0.000 - 0 - 0.001 - 0 - 0.001 - 0 - 0.001 - 0 - 0.001 - 0 - 0.002 - 0 - 0.005 - 0 - 0.001 - 0 - 0.000 - 0 | | 0.002 -0.000 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.000
-0.000 -0.0 | 0.001 - 0.000 - | - 0.000 - 0.013 - 0.000 - 0.013 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0. | - 0.000 - 0.00 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.007 - 0.007 - 0.0034 - 0.009 - 0.000
- 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | | - 0.000 - 0.003 - 0.000 - 0.001 - 0.004 - 0.006 - 0.002 - 0.003 - 0.002 - 0.003 - 0.003 - 0.003 - 0.003 - 0.003 - 0.001 | - 0.002 - 0.003 - 0.007 - 0.007 - 0.007 - 0.005 - 0.005 - 0.008 - 0.014 - 0.0001 - 0.0001 - 0.0001 - 0.0001 | - 0.001 - 0.018 - 0.008 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.0000 - 0.0000 - 0.0000 - 0.0001 | | - 0.002 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.001 - 0.002 - 0.001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 | - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.003 - 0.001 - 0.000
 | -0.000 -0.000 -0.001 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.001 -0.001 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.0015 - 0.0000 - 0.00000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.00000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.00000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.00000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.00000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.00000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.00000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.00000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.00000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.00000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.00000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.00000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.00000 - 0.0000 - 0.0000 - 0.0000 - 0.00000 - 0.0000 - 0.00000 - 0.000000 - 0.00000 - 0.000000000 - 0.0000000000 | |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.000 | - 0.000 - 0.005 - 0.000 - 0.005 - 0.000 - 0.001 - 0.003 - 0.000 - 0.001 - 0.003 - 0.000 | - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 | 0.984 - 0.000 - 0.014 - 0.000 | - 0.986 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.000 - 0.075
 | -0.000 | - 0.003
- 0.003
- 0.000
- 0.001
- 0.002
- 0.002
- 0.002
- 0.002
- 0.003
- 0.001
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0000
- 0.000
- 0.000 | - 0.003 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.00 | -0.000 -0.001 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 | -0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 | - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000
 | - 0.000 - 0.003 - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.002 - 0.002 - 0.002 - 0.003 - 0.003 - 0.000 - 0.058 - 0.039 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.003 - 0.031 - 0.030 - 0.982 - 0.002 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 | - 0.000
 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.000 - 0.002 - 0.071 0.999 - 0.000 - 0.018 - 0.016 | - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.00 | - 0.000 - 0.00 | - 0.000 - 0 - 0.000 - 0 - 0.000 - 0 - 0.000 - 0 - 0.000 - 0 - 0.000 - 0 - 0.001 - 0 - 0.001 - 0 - 0.001 - 0 - 0.001 - 0 - 0.002 - 0 - 0.005 - 0 - 0.001 - 0 - 0.000 - 0 | | 0.002 -0.000 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.000
-0.000 -0.0 | 0.001 - 0.000 | - 0.000 - 0.013 - 0.000 - 0.013 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0. | - 0.000 - 0.00 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.007 - 0.007 - 0.0034 - 0.009 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 -
0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | | - 0.000 - 0.003 - 0.000 - 0.001 - 0.004 - 0.006 - 0.002 - 0.003 - 0.002 - 0.003 - 0.003 - 0.003 - 0.003 - 0.003 - 0.001 | - 0.002 - 0.003 - 0.005 - 0.007 - 0.007 - 0.007 - 0.008 - 0.014 - 0.000 - 0.126 - 0.000 - 0.009 - 0.009 - 0.009 - 0.0888 - 0.001 - 0.009 - 0.009 - 0.009 - 0.009 - 0.0001 - 0.009 - 0.0001 - 0.0002 - 0.0001 - 0.0001 - 0.0002 - 0.0001 - 0.0001 - 0.0002 - 0.0001 - 0.0002 - 0.0001 - 0.0001 - 0.0002 - 0.0001 - 0.0001 - 0.0002 - 0.0001 - 0.0002 - 0.0001 - 0.0001 - 0.0002 - 0.0001 | - 0.001 - 0.018 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | -0.001 -0.000 -0.000 -0.000 -0.001 -0.000 -0.001 -0.000 -0.011 -0.007 -0.006 -0.001 -0.000 | - 0.002 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.001 - 0.002 - 0.002 - 0.001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 | - 0.000 -
0.000 - 0.000 - 0.005 - 0.994 | -0.000 -0.000 -0.001 -0.000 -0.001 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.001 -0.001 -0.001 -0.000 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.000 -0.001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 | - 0.000 | |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.000 | - 0.000 - 0.00 | - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 | 0.984 - 0.000 - 0.014 - 0.000 | - 0.986 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.000 - 0.075
 | -0.000 | - 0.003
- 0.003
- 0.000
- 0.001
- 0.002
- 0.002
- 0.002
- 0.002
- 0.003
- 0.001
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0000
- 0.000
- 0.000 | - 0.003 - 0.001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 | -0.000 -0.001 -0.000 | -0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.016 - 0.000 - 0.016 - 0.000 - 0.015 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000
 | - 0.000 - 0.003 - 0.000 | - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.002 - 0.001 - 0.002 - 0.001 - 0.000 - 0.0053 - 0.000 - 0.053 - 0.000 - 0.053 - 0.000 - 0.053 - 0.000 - 0.053 - 0.000 - 0.053 - 0.000 - 0.055 - 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.003 - 0.031 - 0.032 - 0.002 - 0.002 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 | - 0.000
 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.002 - 0.002 - 0.071 0.999 - 0.000 - 0.018 - 0.001 | - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.00 | - 0.000 - 0.00 | - 0.000 - 0 | | 0.002
 | 0.001 - 0.000 - | - 0.000 - 0.001 - 0.001 - 0.000 - 0.00 | - 0.000 - 0.00 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.007 - 0.007 - 0.0034 - 0.009 - 0.000 -
0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | | - 0.000 - 0.003 - 0.000 - 0.001 - 0.004 - 0.006 - 0.002 - 0.003 - 0.002 - 0.003 - 0.003 - 0.003 - 0.003 - 0.003 - 0.001 | - 0.002 - 0.003 - 0.007 - 0.007 - 0.007 - 0.005 - 0.005 - 0.008 - 0.014 - 0.0001 - 0.0001 - 0.0001 - 0.0001 | - 0.001 - 0.018 - 0.008 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.0000 - 0.0000 - 0.0000 - 0.0001 | | - 0.002 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.000 - 0.029 - 0.000 - 0.029 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 | - 0.000 -
0.000 - 0.00 | -0.000 -0.000 -0.001 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.001 -0.001 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 | - 0.000 0.000 0.000 | |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.000 | - 0.000 - 0.00 | - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 | 0.984 - 0.000 - 0.014 - 0.000 | - 0.986 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.000 - 0.075
 | -0.000 | - 0.003
- 0.003
- 0.000
- 0.001
- 0.002
- 0.002
- 0.002
- 0.002
- 0.003
- 0.001
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.000
- 0.0000
- 0.000
- 0.000 | - 0.003 - 0.003 - 0.000 - 0.001 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 | -0.000 -0.001 -0.000 | -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.001 -0.001 -0.000 -0.046 -0.000 -0.041 -0.005 -0.001 -0.005 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000
 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.002 - 0.001 - 0.002 - 0.019 - 0.003 - 0.005 - 0.003 - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.002 - 0.002 - 0.002 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 | - 0.000
 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.00 | - 0.000 - 0.00 | - 0.000 - 0.00 | | 0.002
 | 0.001 - 0.000 | - 0.000 - 0.013 - 0.000 - 0.013 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.000 - 0.000 - 0.0 | - 0.000 - 0.00 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.007 - 0.007 - 0.0034 - 0.009 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 -
0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | | - 0.000 - 0.003 - 0.000 - 0.001 - 0.004 - 0.006 - 0.002 - 0.003 - 0.002 - 0.003 - 0.003 - 0.003 - 0.003 - 0.003 - 0.001 | - 0.002 - 0.013 - 0.000 - 0.007 - 0.007 - 0.003 | - 0.001 - 0.018 - 0.008 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | | - 0.002 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.002 - 0.002 - 0.002 - 0.002 - 0.000 - 0.002 - 0.000 - 0.002 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 | - 0.000 -
0.000 - 0.00 | -0.000 -0.000 -0.001 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.001 -0.001 -0.001 -0.000 -0.000 -0.000 -0.000 -0.001 -0.001 -0.001 -0.001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 | - 0.000 0.000 0.000 | |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.000 | - 0.000 - 0.005 - 0.000 - 0.005 - 0.000 - 0.001 - 0.003 - 0.000 - 0.001 - 0.000 | - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 | 0.984 - 0.000 - 0.014 - 0.000 | - 0.986 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.075
 | -0.000 | - 0.003
0.730
- 0.001
- 0.002
- 0.002
- 0.003
- 0.002
- 0.003
- 0.001
- 0.000
- 0.000
- 0.002
- 0.000
- 0.002
- 0.000
- 0.0 | - 0.003 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.00 | -0.000 -0.001 -0.000 | -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.002 -0.0113 -0.007 -0.001 -0.000 -0.004 -0.004 -0.004 -0.004 -0.001 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.0001 -0.0001 -0.0001 -0.0001 -0.0001 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000
 | - 0.000 - 0.003 - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.002 - 0.002 - 0.002 - 0.002 - 0.003 - 0.000 - 0.058 - 0.039 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | -0.000 -0.000 -0.001 -0.001 -0.0031 -0.002 -0.002 -0.000 -0.000 -0.000 -0.000 -0.001 -0.001 -0.001 -0.001 -0.001 -0.000 -0.001 -0.001 -0.000 -0.001 | - 0.000
 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.002 - 0.071 0.999 - 0.000 - 0.018 - 0.000 - 0.016 | - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.00 | - 0.000 - 0.00 | - 0.0000 - 0.0000 - 0 | | 0.002 -0.000 -0.000 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.0 | 0.001 - 0.000 - 0.000 - 0.000 - 0.000
- 0.000 | - 0.000 - 0.013 - 0.000 - 0.013 - 0.000 - 0.000 - 0.0 | - 0.000 - 0.00 | - 0.000 | - 0.000 -
0.000 - 0.00 | | - 0.000 - 0.003 - 0.000 - 0.001 - 0.001 - 0.004 - 0.002 - 0.002 - 0.003 - 0.002 - 0.003 - 0.002 - 0.003 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 | - 0.002 - 0.003 - 0.007 - 0.007 - 0.007 - 0.008 - 0.014 - 0.000 - 0.126 - 0.000 - 0.010 - 0.009 - 0.009 - 0.009 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 | - 0.001 - 0.018 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | | - 0.002 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.001 - 0.001 - 0.002 - 0.002 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 | - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.003 - 0.001 - 0.000
 | -0.000 -0.000 -0.001 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 | - 0.000 | |
| - 0.003 - 0.000 | - 0.000 - 0.005 - 0.000 - 0.005 - 0.000 | - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 | 0.984 - 0.000 - 0.014 - 0.000
 | - 0.986 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.075 | -0.000 | - 0.003
- 0.003
- 0.0001
- 0.002
- 0.002
- 0.002
- 0.002
- 0.003
- 0.001
- 0.000
- 0.001
- 0.000
- 0.002
- 0.000
- | - 0.003 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.001 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 | -0.000 -0.001 -0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.002 - 0.001 - 0.001 - 0.000 - 0.004 - 0.000 - 0.004 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.015 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 -
0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 - 0.003 - 0.000 | - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.002 - 0.001 - 0.002 - 0.019 - 0.003 - 0.003 - 0.003 - 0.000 - 0.0058 - 0.009 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.003 - 0.031 - 0.030 - 0.982 - 0.002 - 0.000 - 0.000 - 0.001 | - 0.000 -
0.000 - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.000 - 0.002 - 0.071 0.999 - 0.000 - 0.018 - 0.001 | - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.00 | - 0.000 - 0.00 | - 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.000 - 0 0.001 - 0 0.001 - 0 0.002 - 0 0.001 - 0 0.000 - 0 0.000 - 0 0.001 - 0 0.001 - 0 0.001 - 0 0.001 - 0 0.001 - 0 0.001 - 0 0.001 - 0 0.001 - 0 0.001 - 0 0.001 - 0 0.001 - 0 0.001 - 0 0.001 - 0 0.001 - 0 0.000 - 0 | | 0.002 -0.000
-0.000 -0.0 | 0.001 - 0.000 | - 0.000 - 0.013 - 0.000 - 0.013 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0. | - 0.000 - 0.00 | - 0.000
 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.007 - 0.007 - 0.007 - 0.009 - 0.000 | | - 0.000 - 0.003 - 0.000 - 0.00 | - 0.002 - 0.003 - 0.007 - 0.007 - 0.007 - 0.007 - 0.008 - 0.014 - 0.000 | - 0.001 - 0.018 - 0.000 | | - 0.002 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.000 - 0.002 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 | - 0.000 - 0.001 -
0.000 - 0.001 - 0.000 - 0.001 - 0.000 | -0.000 -0.000 -0.001 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 | - 0.000 | |
| - 0.003
- 0.000
- 0.008
- 0.000
- 0.000 | - 0.000 - 0.005 - 0.000 - 0.005 - 0.000 - 0.001 - 0.003 - 0.000 - 0.001 - 0.000 | - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 | 0.984 - 0.000 - 0.014 - 0.000 | - 0.986 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.005 - 0.000 - 0.075 0.001 - 0.001 - 0.000 0.000 0.000 0.000 0.000 0.000
 | -0.000 | - 0.003
- 0.003
- 0.0001
- 0.0002
- 0.0002
- 0.0002
- 0.0003
- 0.0001
- 0.0000
- 0.0002
- 0.0002
- 0.0002
- 0.00002
- 0.0000
- 0.0000 | - 0.003 - 0.003 - 0.000 - 0.001 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0 | -0.000 -0.001 -0.000
 | -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.000 -0.001 -0.000 -0.004 -0.000 -0.004 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 - 0.003 - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.002 - 0.002 - 0.001 - 0.002 - 0.013 - 0.000 - 0.058 - 0.039 - 0.079 - 0.003 0.001 0.001 0.001 0.001 0.000 0.001 0.000 0.000 0.000 | - 0.000 - 0.000 - 0.001 - 0.001 - 0.0031 - 0.030 - 0.982 - 0.002 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.001
 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.002 - 0.071 0.999 - 0.000 - 0.018 - 0.000 - 0.016 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.00 | - 0.000 - 0.00 | - 0.000 - 0.00 |
 | 0.002 0.0000 0.0000 | 0.001 - 0.000 | - 0.000 - 0.013 - 0.000 - 0.013 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0. | - 0.000 - 0.00 | - 0.000
 | - 0.000 - 0.00 | | - 0.000 - 0.003 - 0.000 - 0.003 - 0.000 - 0.001 - 0.002 - 0.003 - 0.032 - 0.002 - 0.003 - 0.000 | - 0.002 - 0.003 - 0.007 - 0.007 - 0.007 - 0.008 - 0.014 - 0.000 - 0.126 - 0.000 - 0.010 - 0.009 - 0.009 - 0.009 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 | - 0.001 - 0.018 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | | - 0.002 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.001 - 0.001 - 0.002 - 0.002 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001 - 0.0001
 | - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.003 - 0.001 - 0.000 | -0.000 -0.000 -0.001 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 | - 0.000 |
 |
| - 0.003 - 0.000 | - 0.000 | - 0.000 - 0.000 - 0.015 - 0.000 - 0.001 - 0.000 | 0.984 - 0.000 - 0.014 - 0.000 - 0.003 - 0.000 - 0.000 0.000 0.000 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000
 | - 0.986 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.005 - 0.000 - 0.075 0.001 - 0.001 - 0.000 0.000 0.000 0.000 0.000 0.000 | -0.000 | - 0.003
- 0.003
- 0.0001
- 0.0002
- 0.0002
- 0.0002
- 0.0003
- 0.0001
- 0.0000
- 0.0002
- 0.0002
- 0.0002
- 0.00002
- 0.0000
- 0.0000 | - 0.003 - 0.003 - 0.000 - 0.001 - 0.001 - 0.000 - 0.001 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 | - 0.000 - 0.001 - 0.000
 | -0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 | - 0.000 | - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.002 - 0.001 - 0.002 - 0.003 - 0.003 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 | -0.000 -0.001 -0.001 -0.001 -0.001 -0.003 -0.003 -0.002 -0.0002 -0.0002 -0.0001 -0.0001 -0.0015 -0.0015 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.001 -0.0001
 | - 0.000 - 0.00 | -0.000 -0.000 -0.000 -0.000 -0.000 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 -0.001 -0.000 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.00 | - 0.000 - 0.00 | - 0.000 -
0.000 - 0.00 | | 0.002 0.000 | 0.001 - 0.000 | - 0.000 - 0.001 - 0.001 - 0.000 - 0.00 | - 0.000 - 0.00
 | - 0.000 | - 0.000 - 0.00 | | - 0.000 - 0.003 - 0.000 - 0.003 - 0.000 - 0.003 - 0.000 - 0.003 - 0.002 - 0.002 - 0.003 - 0.002 - 0.001 - 0.006 - 0.000 - 0.001 - 0.006 - 0.000 - 0.001 - 0.006 - 0.000 - 0.00 | - 0.002 - 0.003 - 0.000 - 0.003 - 0.000 - 0.008 - 0.008 - 0.000 | - 0.001 - 0.001 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.001 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 | | - 0.002 - 0.000 - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.000 - 0.002 - 0.001 - 0.000 - 0.002 - 0.001 - 0.000 - 0.001 - 0.001 - 0.000
 | - 0.000 - 0.001 - 0.001 - 0.001 - 0.001 - 0.001 - 0.002 - 0.001 - 0.000 - 0.002 - 0.003 - 0.000 | -0.0000 -0.000 | - 0.000 - 0.00 |
 |

x76	x77	x78	x79	x80	x81
0.124	-	- 0.000	- 0.000	-	-
	<u> </u>	-	 	 	+-
-	-	-		-	-
	-	-	-	 	+
-	-	-	-	 -	 -
-	-	-	- 0.000	-	- 0.003
-	-	-	-	-	-
0.000	-	- 0.003	- 0.005	-	- 0.000
-	-	- 0.000	- 0.001	-	- 0.000
-	-	- 0.000	- 0.000	-	-
-	-	-	- 0.000	-	-
0.000	-	- 0.004	- 0.000	-	- 0.000
-	-	- 0.000	-	-	-
0.000	-	-	-	-	- 0.005
0.001	- 0.000	- 0.000	- 0.004	- 0.002	- 0.001
0.000	-	- 0.003	- 0.002	- 0.000	- 0.000
0.001	- 0.000	- 0.002	- 0.004	- 0.000	- 0.001
-	- 0.000	- 0.000	-	-	- 0.010
0.000	-	- 0.000	- 0.001	-	- 0.000
-	-	- 0.000	-	<u> </u>	- 0.012
0.000	-	- 0.000	- 0.002	<u> </u>	- 0.010
-	-	- 0.000	-	-	- 0.019
0.002	-	- 0.000	- 0.000	- 0.000	- 0.010
0.003	- 0.011	- 0.009	- 0.003	- 0.020	- 0.005
0.000	- 0.000	- 0.001	- 0.000	- 0.007	- 0.003
0.015	- 0.000	- 0.002	- 0.012	- 0.108	- 0.002
0.000	-	- 0.000	- 0.006	-	- 0.000
0.000	-	-	- 0.001	-	- 0.001
0.000	- 0.001	- 0.004	- 0.002	- 0.002	- 0.001
0.000	- 0.001	- 0.000	- 0.000	- 0.000	- 0.000
- 0.000	- 0.001	- 0.000	- 0.005	- 0.000	- 0.000
0.002	- 0.000	- 0.006	- 0.004	- 0.002	- 0.001
0.021	- 0.000	- 0.001	- 0.000	- 0.000	- 0.000
0.000	- 0.000	- 0.000	- 0.000	- 0.000	- 0.000
0.000	-	- 0.000	- 0.000	- 0.000	- 0.000
0.000	-	- 0.000	- 0.000	- 0.000	- 0.000
0.020	- 0.028	- 0.004	- 0.009	- 0.004	- 0.111
0.011	- 0.000	- 0.001	- 0.003	- 0.018	- 0.004
0.028	- 0.001	- 0.004	- 0.004	- 0.005	- 0.005
0.000	- 0.000	- 0.000	- 0.000	- 0.000	- 0.000
-	- 0.001	- 0.000	- 0.001	- 0.000	- 0.001
0.000	- 0.000	- 0.000	- 0.000	- 0.000	- 0.000
0.000	- 0.011	- 0.128	- 0.008	- 0.003	- 0.001
0.000	- 0.000	- 0.013	- 0.004	- 0.001	- 0.001
0.001	- 0.000	- 0.000	- 0.001	- 0.000	- 0.000
-	-	-	-	-	- 0.000
-	-	-	-	-	- 0.010
0.000	- 0.003	- 0.001	- 0.003	- 0.000	- 0.003
0.000	- 0.003	- 0.000	- 0.000	- 0.003	- 0.001
-	- 0.000	- 0.000	- 0.000	- 0.000	- 0.000
0.000	- 0.001	- 0.003	- 0.010	- 0.014	- 0.004
0.000	- 0.001	- 0.005	- 0.002	- 0.015	- 0.001
0.000	-	- 0.000	- 0.000	- 0.000	- 0.000
0.006	- 0.014	- 0.028	- 0.001	- 0.004	- 0.052
0.000	- 0.000	- 0.000	- 0.000	- 0.000	- 0.000
-	- 0.180	-	- 0.000	- 0.000	- 0.000
-	-	-	-	- 0.104	- 0.004
-	-	-	- 0.087	-	- 0.002
-	- 0.031	- 0.014	- 0.001	- 0.001	- 0.004
-	-	- 0.006	- 0.047	- 0.000	- 0.003
-	-	-	-	-	-
0.000	-	- 0.003	- 0.005	- 0.000	- 0.003
-	-	-	- 0.009	-	-
-	-	- 0.001	- 0.000	-	- 0.001
-	-	- 0.000	-	- 0.000	-
-	-	- 0.000	- 0.000	-	- 0.000
0.044	-	-	- 0.000	-	- 0.002
0.000	-	- 0.000	- 0.017	-	- 0.000
0.000	-	- 0.000	- 0.000	- 0.000	- 0.000
-	-	- 0.003	- 0.001	-	- 0.000
0.000	-	- 0.014	- 0.013	-	- 0.000
-	-	-	- 0.001	-	-
0.000	-	- 0.002	- 0.015	<u> </u>	-
0.998	-	- 0.000	- 0.005	-	-
	1.000	- 0.000	-	-	-
-		0.989	- 0.020	-	-
-	- 0.226			_	
-	-	- 0.002	1.000	-	-
-				1.000	- - 0.000 1.000

APPENDIX IV

I-A in	verse matr	ix based or	ı Input - oı	itput table	s in 201
v1	v2	v2	V/I	V5	v6

I-A inverse mat	rix based o	n Input - o	ıtput table	s in 2011																													
x1 x2	х3	x4	x5	х6	x7	x8	x9 x10	x11	x12	x13	x14	x15	x16	x17	x18	x19	x20	x21	x22	x23	x24	x25	x26	x27	x28	x29	x30	x31	x32	x33	x34	x35	x36 x37
x1 1.310 0.001	0.057	-	0.000	0.000	0.001 0	.000	0.284 0.091	0.282	0.278	0.102	0.004	0.000	0.000	0.000	0.000	0.000	0.331	0.001	0.001	0.000	0.001	0.000	0.000	0.001 0	.002 (0.001	0.001	0.001	0.000	0.000	0.001	0.001 0	0.000 0.000
x2 0.000 1.004	0.000	-	0.000	0.000	0.000	.000	0.000 0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 0	.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000 0.000
x3 0.000 0.000	1.008	-	0.000	0.000	0.000	.000	0.000 0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 0	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 0.000
x4 0.000 0.000	0.000	1.000	0.000	0.000			0.000 0.001		0.000	0.000	0.000	0.000	0.000		0.000	0.000	0.000	0.000	0.007	0.000	0.000		0.000	0.000 0	.000	0.000	0.000	0.000	0.000	0.000			0.000 0.000
x5 0.031 0.014	0.033	-	1.002	0.017	-		0.025 0.026		0.012			0.021	0.050		0.416	0.116	0.022	0.033	0.050	0.020	0.027				-			0.015	0.005	0.208			0.007 0.047
x6 0.003 0.002	0.003	+ -	0.001	1.350			0.003 0.006		0.002		0.003	0.008	0.007		0.002	0.004	0.002	0.015	0.009	0.384	0.104							0.010	0.013	0.004			0.005 0.002
	0.003	+ -		0.000							_	$\overline{}$	0.007		0.002	0.002	0.002	0.013		0.001	0.001				-			0.001	0.001				0.002 0.001
		+	0.000				0.001 0.011		0.000			0.001			-	_						_								0.000			
x8 0.001 0.001	0.001	-	0.028	0.001	-		0.001 0.004		0.000			0.001	0.002		0.012	0.005	0.001	0.002	0.023	0.001	0.001	-						0.001	0.000	0.006			0.001 0.001
x9 0.003 0.001	0.090	-	0.001	0.000			1.351 0.010		0.001			0.001	0.001		0.001	0.001	0.001	0.002	0.002	0.000	0.000				-			0.001	0.000	0.001			0.000 0.001
x10 0.000 0.000	0.000	-	0.000	0.000	0.000	.000	0.000 1.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 0	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 0.000
x11 0.000 0.000	0.000	-	0.000	0.000	0.000	.000	0.000 0.000	1.429	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 0	.000 0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 0.000
x12 0.000 0.000	0.004	-	0.000	0.000	0.000	.000	0.002 0.000	0.004	1.136	0.415	0.015	0.000	0.000	0.001	0.000	0.001	0.040	0.001	0.001	0.000	0.004	0.001	0.000	0.001 0	.001 (0.003	0.001	0.001	0.000	0.000	0.000	0.001 0	0.000 0.000
x13 0.000 0.001	0.002	-	0.001	0.001	0.001 0	.001	0.003 0.001	0.005	0.001	1.024	0.001	0.001	0.001	0.001	0.001	0.002	0.099	0.002	0.002	0.001	0.007	0.001	0.001	0.002 0	.003 (0.006	0.002	0.001	0.000	0.001	0.001	0.003 0	0.001 0.000
x14 0.000 0.000	0.000	-	0.000	0.000	0.000	.001	0.000 0.000	0.000	0.003	0.092	1.478	0.000	0.000	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.001	0.000	0.000	0.000 0	.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001 0	0.001 0.000
x15 0.001 0.001	0.001	-	0.001	0.000			0.001 0.003		0.001		_	1.637	0.003		0.001	0.007	0.001	0.009	0.002	0.001	0.002							0.003	0.001	0.001			0.002 0.001
x16 0.001 0.001	0.005	<u> </u>	0.000	0.001	-		0.007 0.059		0.001			0.008	1.321		0.000	0.002	0.002	0.005	0.004	0.001	0.003							0.013	0.002	0.001			0.002 0.001
x17 0.000 0.000	0.003	+	0.000	0.001			0.007 0.003		0.001			0.003	0.001		0.000	0.002	0.002	0.000	0.000	0.000	0.003				-			0.000	0.002	0.001			0.001 0.000
		+													-				$\overline{}$		_									-			
x18 0.054 0.036	0.068	+	0.005	0.015			0.039 0.033	_	0.020			0.030	0.022		1.166	0.213	0.036	0.049	0.056	0.019	0.044							0.021	0.009	0.011			0.007 0.097
x19 0.009 0.015	0.006	<u> </u>	0.002	0.007			0.007 0.043		0.004			0.041	0.037		0.005	1.127	0.067	0.127	0.060	0.039	0.078							0.053	0.006	0.005			0.004 0.003
x20 0.000 0.000	0.016	-	0.000	0.000			0.000 0.000		0.000			0.000	0.000		0.000	0.000	1.121	0.000	0.000	0.000	0.000				-			0.001	0.001	0.000			0.000 0.000
x21 0.007 0.003	0.006	-	0.002	0.002	0.009 0	.008	0.015 0.263	0.066	0.003	0.030	0.133	0.160	0.410	0.140	0.002	0.040	0.008	1.502	0.025	0.008	0.033	0.039	0.017	0.008 0	.008 (0.029	0.146	0.285	0.008	0.010	0.021	0.015 0	0.003
x22 0.005 0.014	0.003	<u> </u>	0.001	0.006	0.122 0	.008	0.007 0.181	0.004	0.004	0.004	0.004	0.006	0.010	0.006	0.001	0.012	0.003	0.021	1.229	0.009	0.009	0.076	0.013	0.005 0	.003 (0.025	0.005	0.015	0.003	0.003	0.013	0.012 0	0.010 0.002
x23 0.008 0.004	0.008	-	0.003	0.008	0.030	.045	0.007 0.016	0.008	0.006	0.013	0.008	0.021	0.017	0.012	0.005	0.012	0.005	0.039	0.023	1.068	0.215	0.107	0.205	0.121 0	.015 (0.017	0.018	0.026	0.035	0.010	0.107	0.020 0	0.014 0.006
x24 0.003 0.006	0.003	-	0.001	0.001	0.006	.007	0.003 0.007	7 0.003	0.001	0.004	0.002	0.006	0.004	0.003	0.001	0.007	0.002	0.008	0.006	0.002	1.006	0.024	0.016	0.044 0	.008 (0.035	0.005	0.006	0.018	0.004	0.014	0.003 0	0.003 0.001
x25 0.003 0.003	0.005	T -	0.000	0.001			0.010 0.008		0.003			0.015	0.013		0.002	0.006	0.006	0.016	0.009	0.003	0.004							0.014	0.010	0.013			0.005 0.003
x26 0.014 0.005	0.026	† -	0.002	0.004			0.018 0.021		0.009			0.066	0.026		-	0.014	0.013	0.035		0.009	0.017				_			0.085	0.065	0.025			0.013 0.010
x27 0.013 0.003	0.012	1 -	0.003	0.002			0.014 0.013		0.007			0.006	0.010		0.002	0.005	0.008	0.023	0.022	0.002	0.033				-			0.008	0.029	0.014			0.033 0.013
x28 0.010 0.003	0.012	+ -	0.003	0.002			0.014 0.013		0.007			0.003	0.010		0.002	0.003	0.006	0.023		0.002	0.008				-			0.008	0.029	0.014			0.007 0.011
		+-																	$\overline{}$		_												
x29 0.007 0.023	0.035	+-	0.001	0.002			0.007 0.005	_	0.005			0.013	0.004	_	-	0.002	0.005	0.003		0.003	0.003	_			_			0.004	0.006	0.013			0.002 0.003
x30 0.001 0.001	0.006	ļ -	0.000	0.000			0.001 0.002		0.001			0.010	0.001	_	0.001	0.000	0.004	0.002	0.002	0.000	0.001							0.004	0.001	0.001			0.002 0.001
x31 0.001 0.001	0.001	-	0.002	0.000			0.001 0.006		0.000			0.195	0.001		0.001	0.009	0.001	0.003	0.001	0.001	0.006							1.001	0.018	0.001			0.000
x32 0.007 0.002	0.007	-	0.001	0.017	0.027 0	.016	0.008 0.007	7 0.037	0.016	0.036	0.004	0.003	0.005	0.021	0.002	0.004	0.007	0.006	0.011	0.007	0.027	0.022	0.007	0.092 0	.377 (0.006	0.008	0.003	1.015	0.008	0.052	0.013 0	0.006
x33 0.061 0.006	0.044	-	0.002	0.058	0.065	.015	0.057 0.064	0.055	0.025	0.033	0.046	0.046	0.209	0.068	0.016	0.048	0.036	0.062	0.141	0.062	0.047	0.033	0.053	0.025 0	.013 (0.014	0.036	0.034	0.010	1.028	0.177	0.033	0.020 0.064
x34 0.004 0.004	0.006	-	0.000	0.000	0.002 0	.002	0.003 0.015	0.007	0.001	0.002	0.006	0.010	0.028	0.009	0.000	0.006	0.002	0.002	0.003	0.001	0.005	0.003	0.001	0.002 0	.001 (0.008	0.003	0.002	0.001	0.001	1.101	0.003 0	0.003
x35 0.001 0.000	0.002	-	0.001	0.000	0.000	.000	0.001 0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.003	0.000	0.000	0.000 0	.000	0.000	0.000	0.000	0.000	0.000	0.007	1.004 0	0.000 0.000
x36 0.001 0.000	0.000	-	0.000	0.000	0.000	.000	0.001 0.001	0.000	0.000	0.001	0.000	0.000	0.001	0.003	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.000 0	.000	0.000	0.000	0.000	0.000	0.000	0.002	0.165 1	013 0.165
x37 0.001 0.000	0.000	-	0.000	0.000			0.000 0.000		0.000		_	0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000	0.000 0	.000		0.000	0.000	0.000	0.000			0.001 1.002
x38 0.034 0.028	0.030	<u> </u>	0.007	0.003			0.019 0.027		0.016			0.015	0.020		0.018	0.042	0.016	0.030	0.020	0.009	0.042							0.014	0.016	0.021			0.128 0.033
x39 0.043 0.008	0.035	+ -	0.002	0.003			0.147 0.039		0.010			0.023	0.020		0.019	0.032	0.010	0.030	$\overline{}$	0.046	0.042				-			0.022	0.018	0.021			0.013 0.137
	0.053	+	0.002								_	0.023			-		0.001	0.039		0.110	_				-			0.022					0.013 0.137
		 -		0.088			0.177 0.068		0.094			_	0.069	_	0.051	0.075					0.061	_							0.012	0.013			
x41 0.001 0.000	0.001	-	0.000	0.000	-		0.000 0.004		0.000			0.000	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.000	-			-			0.000	0.005	0.000			0.001 0.000
x42 0.000 0.000	0.000	-	0.000	0.000			0.000 0.001		0.000			0.000	0.000		0.000	0.000	0.000	0.000	$\overline{}$	0.000	0.000				-			0.000	0.000	0.000			0.000 0.000
x43 0.009 0.009	0.006	-	0.001	0.007	0.076	.005	0.016 0.017	0.010	0.005	0.058	0.021	0.006	0.022		0.003	0.007	0.012	0.011	0.024	0.008	0.008	0.006	0.007	0.005 0	.002 (0.003	0.033	0.006	0.002	0.096			0.005
x44 0.000 0.000	0.000	-	0.000	0.000	0.000	.000	0.000 0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000 0	.000 (0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
x45 0.002 0.003	0.014	-	0.000	0.001	0.005	.004	0.002 0.004	0.009	0.003	0.003	0.010	0.002	0.002	0.003	0.001	0.001	0.001	0.005	0.007	0.001	0.001	0.004	0.002	0.002 0	.001 (0.001	0.017	0.004	0.001	0.003	0.004	0.003 0	0.001 0.004
x46 0.001 0.001	0.002	-	0.000	0.000	0.001 0	.001	0.001 0.001	0.001	0.000	0.002	0.003	0.001	0.001	0.001 0	0.000	0.000	0.001	0.003	0.001	0.000	0.000	0.001	0.001	0.001 0	.001 (0.000	0.006	0.001	0.001	0.001	0.001	0.001 0	0.000 0.000
x47 0.000 0.000	0.000	-	0.000	0.000	0.000	.000	0.000 0.000	0.000	0.000	0.000		0.002	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 0	.000	0.000	0.000	0.000	0.000	0.000		0.001 0	0.007 0.001
x48 0.000 0.000	0.000	-	0.000	0.000			0.000 0.000	_	0.000			0.000	0.000		0.000	0.000	0.007	0.000	0.000	0.000	0.000				_			0.000	0.000	0.000			0.000 0.000
x49 0.000 0.000	0.000	 -	0.000	0.000			0.000 0.000		0.000	0.000	0.000	0.000	0.000		0.000	0.000	0.001	0.000	0.000	0.000	0.000						0.000	0.000	0.000	0.000			0.000 0.000
x50 0.001 0.001	0.006	 	0.000	0.000			0.003 0.003		0.003			0.012	0.004		0.001	0.002	0.001	0.004	$\overline{}$	0.001	0.004							0.002	0.000	0.002			0.001 0.002
x51 0.000 0.000	0.000	+ -	0.000	0.000			0.000 0.001		0.000			$\overline{}$	0.004		$\overline{}$	0.002		0.004		0.000	0.000				-			0.001					0.000 0.000
		 -						_				-			_																		
x52 0.000 0.000			0.000	0.000			0.001 0.001		_				0.001	_	0.000	0.005	0.001	0.002		0.000	0.001				-			0.001	0.001	0.001			0.001 0.001
x53 0.008 0.003		 -	0.001	0.003			0.043 0.053						0.034		-	0.008	0.018	0.076	$\overline{}$	0.007	0.011				-			0.019	800.0	0.006			0.006 0.010
	0.003	-	0.000	0.001			0.012 0.012		0.003		_	-	0.057		-	0.003	0.038	0.007	0.005	0.001	0.006		0.003					0.003	0.007	0.003			0.006
	0.000	<u> </u>	0.000	0.000			0.000 0.000		0.000				0.000	_		0.000	0.000	0.000		0.000	0.000				-			0.000	0.000	0.000			0.000
x56 0.007 0.020	0.010	-	0.002	0.004	0.038 0	.032	0.029 0.046	0.043	0.019	0.103	0.035	0.086	0.089	0.062	0.006	0.039	0.037	0.119	0.037	0.011	0.013	0.032	0.146	0.023 0	.011 (0.019	0.038	0.064	0.015	0.013	0.016	0.110 0	0.023 0.012
x57 0.000 0.000	0.000	-	0.000	0.000	0.000	.000	0.000 0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 0	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000 0.000
x58 0.000 0.000	0.000		0.001	0.000	0.005	.019	0.001 0.001	0.002	0.000	0.002	0.001	0.000	0.001	0.019	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.001	0.000	0.001 0	.000 (0.000	0.001	0.000	0.000	0.002	0.001	0.001 0	0.000 0.000
x59 0.007 0.004	0.006	-	0.001	0.003	0.007	.009	0.007 0.010	0.007	0.004	0.006	0.007	0.021	0.011	0.008	0.012	0.012	0.005	0.008	0.010	0.004	0.008	0.028	0.008	0.006 0	.007 (0.002	0.011	0.088	0.013	0.042	0.032	0.023 0	0.014 0.008
	0.004	-	0.003	0.001			0.004 0.003						0.002			0.005		0.002		0.001	0.003		_		-			0.005	0.059	0.004			0.004 0.002
	0.003	† -	0.000	0.002			0.012 0.038		0.004			0.005	0.005		-	0.004	0.006	0.007	$\overline{}$	0.003	0.003				-			0.003	0.002	0.001			0.001 0.009
x62 0.005 0.004	0.005	 -	0.003	0.002			0.012 0.009		0.004		_	-	0.010		-	0.007	0.007	0.007	$\overline{}$	0.004	0.003				-			0.009	0.345	0.001			0.009 0.005
x62 0.003 0.004 x63 0.000 0.000		+ -										0.000	0.000		0.000			0.000	_	0.004													
	0.000	- -	0.000	0.000			0.000 0.000		0.000			_			_	0.000	0.000				0.000							0.000	0.000	0.000			
				0.000							0.003	0.001	0.001	0.006 0	0.000	0.001	0.001	0.003	0.002	0.001	0.001	0.001	0.002	0.002 0	.002 0	0.000	0.009					0.002 0	0.001 0.001
x64 0.001 0.005	0.001	+	0.000				0.002 0.003						$\overline{}$		0.000	0.000	0.000	0.004	0.000	0.000	0.000		0.040		-			0.003	0.005	0.001		2004 -	0.000
x64 0.001 0.005 x65 0.001 0.001	0.001 0.000	-	0.000	0.000	0.000	.000	0.000 0.001	0.000	0.000	0.000	0.000	0.001	0.000	0.000		0.000	0.000	0.001		0.000	0.008	0.001		0.001 0	.000 (0.000	0.000	0.001	0.001	0.001	0.001		
x64 0.001 0.005 x65 0.001 0.001 x66 0.000 0.000	0.001 0.000 0.000	-	0.000	0.000 0.000	0.000 C	.000	0.000 0.001 0.000 0.000	0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.001 0.000	0.000 0.000	0.000 C	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001 0.000	0.000	0.001 0 0.000 0	.000 (0.000	0.000	0.001 0.000	0.001 0.000	0.001 0.000	0.001 0.000	0.000	0.000 0.000
x64 0.001 0.005 x65 0.001 0.001 x66 0.000 0.000 x67 0.001 0.001	0.001 0.000 0.000 0.001	-	0.000 0.000 0.000	0.000	0.000 0 0.000 0 0.004 0	.000 .000 .005	0.000 0.001 0.000 0.000 0.003 0.004	0.000 0.000 0.090	0.000 0.000 0.006	0.000 0.000 0.004	0.000 0.000 0.001	0.001 0.000 0.001	0.000 0.000 0.001	0.000 C 0.000 C 0.001 C	0.000	0.000 0.003	0.000 0.001	0.000 0.002	0.000 0.019	0.000 0.001	0.000 0.002	0.001 0.000 0.010	0.000 0.003	0.001 0 0.000 0 0.008 0	.000 (.000 (.001 (0.000 0.000 0.001	0.000 0.000 0.002	0.001 0.000 0.001	0.001 0.000 0.001	0.001 0.000 0.003	0.001 (0.000 (0.002 (0.000 0. 0.021 0	0.000 0.000 0.001 0.001
x64 0.001 0.005 x65 0.001 0.001 x66 0.000 0.000 x67 0.001 0.001	0.001 0.000 0.000	- - -	0.000	0.000 0.000	0.000 0 0.000 0 0.004 0	.000 .000 .005	0.000 0.001 0.000 0.000	0.000 0.000 0.090	0.000 0.000	0.000 0.000 0.004	0.000 0.000 0.001	0.001 0.000	0.000 0.000	0.000 C 0.000 C 0.001 C	0.000	0.000	0.000	0.000	0.000 0.019	0.000	0.000	0.001 0.000 0.010	0.000 0.003	0.001 0 0.000 0 0.008 0	.000 (.000 (.001 (0.000 0.000 0.001	0.000 0.000 0.002	0.001 0.000	0.001 0.000	0.001 0.000	0.001 (0.000 (0.002 (0.000 0. 0.021 0	0.000 0.000
x64 0.001 0.005 x65 0.001 0.001 x66 0.000 0.000 x67 0.001 0.001	0.001 0.000 0.000 0.001	-	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0 0.000 0 0.004 0 0.000 0	.000 .000 .005	0.000 0.001 0.000 0.000 0.003 0.004	0.000 0.000 0.090 0.000	0.000 0.000 0.006	0.000 0.000 0.004 0.000	0.000 0.000 0.001 0.000	0.001 0.000 0.001	0.000 0.000 0.001	0.000 C 0.000 C 0.001 C 0.000 C	0.000	0.000 0.003	0.000 0.001	0.000 0.002	0.000 0.019 0.000	0.000 0.001	0.000 0.002	0.001 0.000 0.010 0.000	0.000 0.003 0.000	0.001 0 0.000 0 0.008 0 0.000 0	.000 (.000 (.001 (0.000 0.000 0.001 0.000	0.000 0.000 0.002 0.000	0.001 0.000 0.001	0.001 0.000 0.001	0.001 0.000 0.003	0.001 (0.000 (0.002 (0.000 (0.000 0 0.021 0 0.000 0	0.000 0.000 0.001 0.001
x64 0.001 0.005 x65 0.001 0.001 x66 0.000 0.000 x67 0.001 0.001 x68 0.000 0.001	0.001 0.000 0.000 0.001 0.000 0.001	- - - -	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0 0.000 0 0.004 0 0.000 0 0.002 0	.000 .000 .005 .000	0.000 0.001 0.000 0.000 0.003 0.004 0.000 0.000	0.000 0 0.000 1 0.090 0 0.000 1 0.009	0.000 0.000 0.006 0.000	0.000 0.000 0.004 0.000 0.002	0.000 0.000 0.001 0.000 0.001	0.001 0.000 0.001 0.000 0.001	0.000 0.000 0.001 0.000	0.000 C 0.000 C 0.001 C 0.000 C 0.001 C	0.000 0.008 0.000 0.001	0.000 0.003 0.000	0.000 0.001 0.000 0.001	0.000 0.002 0.000	0.000 0.019 0.000 0.003	0.000 0.001 0.000	0.000 0.002 0.000	0.001 0.000 0.010 0.000 0.002	0.000 0.003 0.000 0.001	0.001 0 0.000 0 0.008 0 0.000 0 0.004 0	.000 (0 .000 (0 .001 (0 .000 (0	0.000 0.000 0.001 0.000 0.000	0.000 0.000 0.002 0.000 0.002	0.001 0.000 0.001 0.000	0.001 0.000 0.001 0.000	0.001 0.000 0.003 0.000	0.001 (0.000 (0.002 (0.000 (0.001 (0.	0.000 0 0.021 0 0.000 0 0.003 0	0.000 0.000 0.001 0.001 0.000 0.000
x64 0.001 0.005 x65 0.001 0.001 x66 0.000 0.000 x67 0.001 0.001 x68 0.000 0.001 x68 0.000 0.001 x69 0.001 0.000 x70 0.000 0.000	0.001 0.000 0.000 0.001 0.000 0.001 0.000		0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.001 0.000	0.000 C 0.000 C 0.004 C 0.000 C 0.002 C 0.000 C	.000 .000 .005 .000 .001	0.000 0.001 0.000 0.000 0.003 0.004 0.000 0.000 0.003 0.001 0.001 0.001	0.000 0.000 4 0.090 0 0.000 1 0.009 1 0.001	0.000 0.000 0.006 0.000 0.001 0.000	0.000 0.000 0.004 0.000 0.002 0.004	0.000 0.000 0.001 0.000 0.001 0.001	0.001 0.000 0.001 0.000 0.001 0.001	0.000 0.000 0.001 0.000 0.001 0.002	0.000 C 0.000 C 0.001 C 0.000 C 0.001 C 0.002 C	0.000 0.008 0.000 0.001 0.000	0.000 0.003 0.000 0.001 0.000	0.000 0.001 0.000 0.001 0.001	0.000 0.002 0.000 0.001 0.004	0.000 0.019 0.000 0.003 0.001	0.000 0.001 0.000 0.001 0.000	0.000 0.002 0.000 0.001 0.000	0.001 0.000 0.010 0.000 0.002 0.001	0.000 0.003 0.000 0.001 0.000	0.001 0 0.000 0 0.008 0 0.000 0 0.004 0 0.001 0	.000 (0 .000 (0 .001 (0 .000 (0 .000 (0	0.000 0.000 0.001 0.000 0.000 0.000	0.000 0.000 0.002 0.000 0.002 0.001	0.001 0.000 0.001 0.000 0.002 0.001	0.001 0.000 0.001 0.000 0.000 0.000	0.001 0.000 0.003 0.000 0.001 0.002	0.001 (0.000 (0.002 (0.000 (0.001 (0.001 (0.000 0 0.021 0 0.000 0 0.003 0 0.000 0	0.000 0.000 0.001 0.001 0.000 0.000 0.000 0.002 0.000 0.000
x64 0.001 0.005 x65 0.001 0.001 x66 0.000 0.000 x67 0.001 0.001 x68 0.000 0.001 x69 0.001 0.000 x70 0.000 0.000 x71 0.000 0.000	0.001 0.000 0.000 0.001 0.000 0.001 0.000 0.000	-	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.001 0.000	0.000 0 0.000 0 0.004 0 0.000 0 0.002 0 0.000 0	.000 .000 .005 .000 .001 .000	0.000 0.001 0.000 0.000 0.003 0.004 0.000 0.000 0.003 0.001 0.001 0.001 0.000 0.000	0.000 0.000 4 0.090 0 0.000 1 0.009 1 0.001 0 0.000	0.000 0.000 0.006 0.000 0.001 0.000 0.000	0.000 0.000 0.004 0.000 0.002 0.004 0.000	0.000 0.000 0.001 0.000 0.001 0.001 0.000	0.001 0.000 0.001 0.000 0.001 0.001 0.001	0.000 0.000 0.001 0.000 0.001 0.002 0.000	0.000 C 0.000 C 0.001 C 0.000 C 0.001 C 0.002 C 0.000 C	0.000 0.008 0.000 0.001 0.000 0.000	0.000 0.003 0.000 0.001 0.000 0.000	0.000 0.001 0.000 0.001 0.001 0.000	0.000 0.002 0.000 0.001 0.004 0.000	0.000 0.019 0.000 0.003 0.001 0.000	0.000 0.001 0.000 0.001 0.000 0.000	0.000 0.002 0.000 0.001 0.000 0.000	0.001 0.000 0.010 0.000 0.002 0.001 0.000	0.000 0.003 0.000 0.001 0.000 0.000	0.001 0 0.000 0 0.008 0 0.000 0 0.004 0 0.001 0	.000 (0 .000 (0 .001 (0 .000 (0 .000 (0 .000 (0	0.000 0.000 0.001 0.000 0.000 0.000 0.000	0.000 0.000 0.002 0.000 0.002 0.002 0.001	0.001 0.000 0.001 0.000 0.002 0.001 0.000	0.001 0.000 0.001 0.000 0.000 0.000 0.000	0.001 0.000 0.003 0.000 0.001 0.002 0.000	0.001 (0.000 (0.000 (0.001 (0.	0.000 0 0.021 0 0.000 0 0.003 0 0.000 0	0.000 0.000 0.001 0.001 0.000 0.000 0.000 0.002 0.000 0.000 0.000 0.000
x64 0.001 0.005 x65 0.001 0.001 x66 0.000 0.000 x67 0.001 0.001 x68 0.000 0.001 x69 0.001 0.000 x70 0.000 0.000 x71 0.000 0.000 x72 0.001 0.000	0.001 0.000 0.000 0.001 0.000 0.001 0.000 0.000 0.000	-	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.001 0.000 0.000	0.000 0 0.000 0 0.004 0 0.000 0 0.002 0 0.000 0 0.000 0	.000 .000 .005 .000 .001 .000 .001	0.000 0.001 0.000 0.000 0.003 0.004 0.000 0.000 0.003 0.001 0.003 0.001 0.001 0.001 0.000 0.000 0.000 0.000	0.000 0.000 1 0.090 0 0.000 1 0.009 1 0.001 0 0.000 0 0.000	0.000 0.000 0.006 0.000 0.001 0.000 0.000 0.000	0.000 0.000 0.004 0.000 0.002 0.002 0.004 0.000	0.000 0.000 0.001 0.000 0.001 0.001 0.000 0.000	0.001 0.000 0.001 0.000 0.001 0.001 0.000 0.000	0.000 0.000 0.001 0.000 0.001 0.002 0.000 0.000	0.000 C 0.000 C 0.001 C 0.000 C 0.001 C 0.002 C 0.000 C	0.000 0.008 0.000 0.001 0.000 0.000 0.000	0.000 0.003 0.000 0.001 0.000 0.000 0.000	0.000 0.001 0.000 0.001 0.001 0.000 0.000	0.000 0.002 0.000 0.001 0.004 0.000 0.000	0.000 0.019 0.000 0.003 0.001 0.000 0.000	0.000 0.001 0.000 0.001 0.000 0.000 0.000	0.000 0.002 0.000 0.001 0.000 0.000	0.001 0.000 0.010 0.000 0.002 0.001 0.000 0.000	0.000 0.003 0.000 0.001 0.000 0.000 0.000	0.001 0 0.000 0 0.008 0 0.000 0 0.004 0 0.001 0 0.000 0	.000 (0 .000 (0 .001 (0 .000 (0 .000 (0 .000 (0 .002 (0	0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.002 0.000 0.002 0.001 0.000 0.000	0.001 0.000 0.001 0.000 0.002 0.001 0.000 0.000	0.001 0.000 0.001 0.000 0.000 0.000 0.005 0.000	0.001 0.000 0.003 0.000 0.001 0.002 0.000 0.000	0.001 (0.000 (0.	0.000 0 0.021 0 0.000 0 0.003 0 0.000 0 0.000 0	0.000 0.000 0.001 0.001 0.000 0.000 0.000 0.002 0.000 0.000 0.000 0.000 0.000 0.000
x64 0.001 0.005 x65 0.001 0.001 x66 0.000 0.000 x67 0.001 0.001 x68 0.000 0.001 x69 0.001 0.000 x70 0.000 0.000 x71 0.000 0.000 x72 0.001 0.000 x73 0.001 0.000	0.001 0.000 0.000 0.001 0.000 0.001 0.000 0.000 0.000 0.000	-	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000	0.000 0 0.000 0 0.004 0 0.000 0 0.002 0 0.000 0 0.000 0 0.000 0 0.000 0	.000 .000 .005 .000 .001 .000 .001 .000	0.000 0.001 0.000 0.000 0.003 0.004 0.000 0.000 0.003 0.001 0.001 0.001 0.000 0.000 0.000 0.000 0.001 0.000 0.001 0.001 0.001 0.001 0.001 0.001	0.000 0.000 4 0.090 0 0.000 1 0.009 1 0.001 0 0.000 0 0.000 0 0.000	0.000 0.000 0.006 0.000 0.001 0.000 0.000 0.000 0.000	0.000 0.000 0.004 0.000 0.002 0.004 0.000 0.000 0.000	0.000 0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000	0.001 0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000	0.000 0.000 0.001 0.000 0.001 0.002 0.000 0.000 0.000	0.000 C 0.000 C 0.001 C 0.000 C 0.001 C 0.002 C 0.000 C 0.000 C 0.000 C	0.000 0.008 0.000 0.001 0.000 0.000 0.000 0.000	0.000 0.003 0.000 0.001 0.000 0.000 0.001 0.000	0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000	0.000 0.002 0.000 0.001 0.004 0.000 0.000 0.000	0.000 0.019 0.000 0.003 0.001 0.000 0.000 0.000	0.000 0.001 0.000 0.001 0.000 0.000 0.000 0.000	0.000 0.002 0.000 0.001 0.000 0.000 0.000 0.000	0.001 0.000 0.010 0.000 0.002 0.001 0.000 0.000 0.000	0.000 0.003 0.000 0.001 0.000 0.000 0.000 0.000	0.001 0 0.000 0 0.008 0 0.000 0 0.004 0 0.001 0 0.001 0 0.000 0	.000 (0 .000 (0 .001 (0 .000 (0 .000 (0 .000 (0 .002 (0 .000 (0	0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.004	0.000 0.000 0.002 0.000 0.002 0.001 0.000 0.000 0.000	0.001 0.000 0.001 0.000 0.002 0.001 0.000 0.000 0.000	0.001 0.000 0.001 0.000 0.000 0.000 0.005 0.000 0.000	0.001 0.000 0.003 0.000 0.001 0.002 0.000 0.000 0.000	0.001 (0.000 (0.000 (0.001 (0.001 (0.001 (0.001 (0.001 (0.001 (0.001 (0.001 (0.000 (0.	0.000 0 0.021 0 0.000 0 0.003 0 0.000 0 0.000 0 0.000 0	0.000 0.000 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
x64 0.001 0.005 x65 0.001 0.001 x66 0.000 0.000 x67 0.001 0.001 x68 0.000 0.001 x69 0.001 0.000 x70 0.000 0.000 x71 0.000 0.000 x72 0.001 0.000 x73 0.001 0.000 x74 0.000 0.000	0.001 0.000 0.000 0.001 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000	-	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000	0.000 C 0.000	.000 .000 .005 .000 .001 .000 .001 .000 .000	0.000 0.001 0.000 0.000 0.003 0.004 0.000 0.000 0.001 0.001 0.001 0.001 0.000 0.000 0.001 0.000 0.001 0.001 0.001 0.001 0.000 0.000 0.000 0.000	0.000 0.000 1 0.000 1 0.000 1 0.000 1 0.000 1 0.000 1 0.000 1 0.000 1 0.000 1 0.000	0.000 0.000 0.006 0.000 0.001 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.004 0.000 0.002 0.004 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000 0.000	0.001 0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.001 0.000 0.001 0.002 0.000 0.000 0.000 0.001	0.000 C 0.000 C 0.001 C 0.002 C 0.000	0.000 0.008 0.000 0.001 0.000 0.000 0.000 0.000 0.000	0.000 0.003 0.000 0.001 0.000 0.000 0.001 0.000 0.000	0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000 0.001	0.000 0.002 0.000 0.001 0.004 0.000 0.000 0.000 0.002 0.000	0.000 0.019 0.000 0.003 0.001 0.000 0.000 0.000 0.001	0.000 0.001 0.000 0.001 0.000 0.000 0.000 0.000 0.000	0.000 0.002 0.000 0.001 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.010 0.000 0.002 0.001 0.000 0.000 0.000 0.000 0.000	0.000 0.003 0.000 0.001 0.000 0.000 0.000 0.000 0.000	0.001 0 0.000 0 0.008 0 0.000 0 0.004 0 0.001 0 0.001 0 0.000 0 0.000 0 0.000 0 0.000 0	.000 (0.0	0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.002 0.000 0.002 0.001 0.000 0.000 0.000 0.003 0.000	0.001 0.000 0.001 0.000 0.002 0.001 0.000 0.000 0.000 0.001	0.001 0.000 0.001 0.000 0.000 0.000 0.005 0.000 0.000 0.000	0.001 0.000 0.003 0.000 0.001 0.002 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.002 0.000 0.001 0.001 0.001 0.000	0.000 0 0.021 0 0.000 0 0.003 0 0.000 0 0.000 0 0.000 0 0.000 0 0.001 0 0.001 0 0.000 0	0.000 0.000 0.001 0.001 0.000 0.000 0.000 0.002 0.000 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
x64 0.001 0.005 x65 0.001 0.001 x66 0.000 0.000 x67 0.001 0.001 x68 0.000 0.001 x69 0.001 0.000 x71 0.000 0.000 x72 0.001 0.000 x73 0.001 0.000 x74 0.000 0.000 x75 0.000 0.000	0.001 0.000 0.000 0.001 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000	-	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000	0.000 C 0.000	.000	0.000 0.001 0.000 0.000 0.003 0.004 0.003 0.001 0.003 0.001 0.001 0.001 0.000 0.000 0.000 0.000 0.001 0.001 0.001 0.000 0.001 0.001 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 4 0.090 0.000 1 0.009 1 0.001 0 0.000 0 0.000 1 0.000 0 0.000 0 0.000	0.000 0.000 0.006 0.000 0.001 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.004 0.000 0.002 0.004 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.001 0.000 0.001 0.002 0.000 0.000 0.000 0.000 0.000	0.000 C 0.000	0.000 0.008 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.003 0.000 0.001 0.000 0.000 0.001 0.000 0.000 0.000	0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.002 0.000 0.001 0.004 0.000 0.000 0.000 0.002 0.000 0.000	0.000 0.019 0.000 0.003 0.001 0.000 0.000 0.001 0.000 0.000 0.000	0.000 0.001 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.002 0.000 0.001 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.010 0.000 0.002 0.001 0.000 0.000 0.000 0.000 0.000 0.002	0.000 0.003 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0 0.000 0 0.008 0 0.000 0 0.004 0 0.001 0 0.001 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0	.000 (0.0	0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.002 0.000 0.002 0.001 0.000 0.000 0.000 0.003 0.000 0.000	0.001 0.000 0.001 0.000 0.002 0.001 0.000 0.000 0.001 0.000 0.000	0.001 0.000 0.001 0.000 0.000 0.000 0.005 0.000 0.000 0.000 0.000	0.001 0.000 0.003 0.000 0.001 0.002 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.002 0.001 0.001 0.001 0.001 0.001 0.000	0.000 0 0.021 0 0.000 0 0.003 0 0.000 0 0.000 0 0.000 0 0.001 0 0.001 0 0.000 0 0.000 0	0.000 0.000 0.001 0.001 0.000 0.000 0.000 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
x64 0.001 0.005 x65 0.001 0.001 x66 0.000 0.000 x67 0.001 0.001 x68 0.000 0.001 x70 0.000 0.000 x71 0.000 0.000 x72 0.001 0.000 x73 0.001 0.000 x74 0.000 0.000 x75 0.000 0.000 x76 0.000 0.000	0.001 0.000 0.000 0.001 0.000 0.001 0.000 0.000 0.001 0.000 0.000 0.000		0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 C 0.000	.000	0.000 0.001 0.000 0.000 0.003 0.004 0.000 0.000 0.001 0.001 0.001 0.000 0.000 0.000 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 4 0.090 0.000 1 0.000 1 0.001 0 0.000 0 0.000 1 0.000 0 0.000 0 0.000 0 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.004 0.000 0.002 0.004 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.001 0.000 0.001 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.001 0.000 0.001 0.002 0.000 0.000 0.000 0.000 0.000 0.000	0.000 C 0.000	0.000 0.008 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.003 0.000 0.001 0.000 0.000 0.001 0.000 0.000 0.000 0.000	0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.002 0.000 0.001 0.004 0.000 0.000 0.002 0.000 0.000 0.000	0.000 0.019 0.000 0.003 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.001 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.002 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.010 0.000 0.002 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.003 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0 0.000 0 0.008 0 0.000 0 0.004 0 0.001 0 0.001 0 0.000 0 0.000 0 0.000 0 0.000 0	.000 (0.0	0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.002 0.000 0.002 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.001 0.000 0.002 0.001 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000	0.001 0.000 0.001 0.000 0.000 0.000 0.005 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.003 0.000 0.001 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 (0.000 (0.	0.000 0 0.021 0 0.000 0 0.003 0 0.000 0 0.000 0 0.001 0 0.001 0 0.000 0 0.000 0 0.000 0	0.000 0.000 0.001 0.001 0.000 0.000 0.000 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
x64 0.001 0.005 x65 0.001 0.001 x66 0.000 0.000 x67 0.001 0.001 x68 0.000 0.001 x69 0.001 0.000 x71 0.000 0.000 x72 0.001 0.000 x73 0.001 0.000 x74 0.000 0.000 x75 0.000 0.000	0.001 0.000 0.000 0.001 0.000 0.001 0.000 0.000 0.001 0.000 0.000 0.000		0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000	0.000 C 0.000	.000	0.000 0.001 0.000 0.000 0.003 0.004 0.003 0.001 0.003 0.001 0.001 0.001 0.000 0.000 0.000 0.000 0.001 0.001 0.001 0.000 0.001 0.001 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 4 0.090 0.000 1 0.000 1 0.001 0 0.000 0 0.000 1 0.000 0 0.000 0 0.000 0 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.004 0.000 0.002 0.004 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.001 0.000 0.001 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.001 0.000 0.001 0.002 0.000 0.000 0.000 0.000 0.000	0.000 C 0.000	0.000 0.008 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.003 0.000 0.001 0.000 0.000 0.001 0.000 0.000 0.000	0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.002 0.000 0.001 0.004 0.000 0.000 0.000 0.002 0.000 0.000	0.000 0.019 0.000 0.003 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.001 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.002 0.000 0.001 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.010 0.000 0.002 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.003 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0 0.000 0 0.008 0 0.000 0 0.004 0 0.001 0 0.001 0 0.000 0 0.000 0 0.000 0 0.000 0	.000 (0.0	0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.002 0.000 0.002 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.001 0.000 0.002 0.001 0.000 0.000 0.001 0.000 0.000	0.001 0.000 0.001 0.000 0.000 0.000 0.005 0.000 0.000 0.000 0.000	0.001 0.000 0.003 0.000 0.001 0.002 0.000 0.000 0.000 0.000 0.000 0.000	0.001 (0.000 (0.	0.000 0 0.021 0 0.000 0 0.003 0 0.000 0 0.000 0 0.001 0 0.001 0 0.000 0 0.000 0 0.000 0	0.000 0.000 0.001 0.001 0.000 0.000 0.000 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
x64 0.001 0.005 x65 0.001 0.0001 x66 0.000 0.0000 x67 0.001 0.001 x68 0.000 0.000 x70 0.000 0.000 x71 0.000 0.000 x72 0.001 0.000 x73 0.001 0.000 x74 0.000 0.000 x75 0.000 0.000 x76 0.000 0.000	0.001 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000		0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 C 0.000	.000	0.000 0.001 0.000 0.000 0.003 0.004 0.000 0.000 0.001 0.001 0.001 0.000 0.000 0.000 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.004 0.000 0.002 0.004 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.001 0.000 0.001 0.002 0.000 0.000 0.000 0.000 0.000 0.000	0.000 C 0.000	0.000 0.008 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.003 0.000 0.001 0.000 0.000 0.001 0.000 0.000 0.000 0.000	0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.002 0.000 0.001 0.004 0.000 0.000 0.002 0.000 0.000 0.000	0.000 0.019 0.000 0.003 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.001 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.002 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.010 0.000 0.002 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.003 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0 0.000 0 0.008 0 0.000 0 0.004 0 0.001 0 0.001 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0	.000 (c.000 (c.0	0.000 0.000 0.000 0.001 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000	0.000 0.000 0.000 0.001 0.001 0.001 0.001 0.000	0.001 0.000 0.001 0.000 0.002 0.001 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000	0.001 0.000 0.001 0.000 0.000 0.000 0.005 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.003 0.000 0.001 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 (0.000 (0.	0.000 0 0.021 0 0.000 0 0.003 0 0.000 0 0.000 0 0.000 0 0.001 0 0.001 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0	0.000 0.000 0.001 0.001 0.000 0.000 0.000 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
x64 0.001 0.005 x65 0.001 0.001 x66 0.000 0.000 x67 0.001 0.001 x68 0.000 0.001 x69 0.001 0.000 x71 0.000 0.000 x72 0.001 0.000 x73 0.001 0.000 x74 0.000 0.000 x74 0.000 0.000 x75 0.000 0.000 x77 0.000 0.000 x77 0.000 0.000	0.001 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000		0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 C 0.000	.000	0.000 0.001 0.000 0.002 0.003 0.004 0.000 0.000 0.001 0.001 0.001 0.001 0.000 0.000 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.004 0.000 0.002 0.004 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.001 0.000 0.001 0.002 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000	0.000 C 0.000	0.000 0.008 0.008 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.003 0.000 0.001 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000	0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.002 0.000 0.001 0.004 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.019 0.000 0.003 0.001 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.001 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.002 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.010 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.003 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0 0.000 0 0.008 0 0.000 0 0.001 0 0.001 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0	.000 (.0	0.000 0.000 0.000 0.001 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000	0.000 0.000 0.002 0.000 0.002 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.001 0.000 0.002 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.003 0.000 0.001 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 (0.000 (0.	0.000 0 0.021 0 0.000 0 0.003 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0	0.000 0.000 0.001 0.001 0.000 0.000 0.000 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
x64 0.001 0.005 x65 0.001 0.001 x66 0.000 0.000 x67 0.001 0.001 x68 0.000 0.001 x70 0.000 0.000 x71 0.000 0.000 x72 0.001 0.000 x73 0.001 0.000 x74 0.000 0.000 x75 0.000 0.000 x76 0.000 0.000 x78 0.000 0.000	0.001 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000		0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 C 0.000	.000	0.000 0.001 0.000 0.002 0.003 0.004 0.000 0.000 0.001 0.001 0.001 0.001 0.000 0.002 0.001 0.001 0.001 0.001 0.000 0.002 0.000 0.002 0.000 0.002 0.000 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000	0.000 0.000 0.006 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.004 0.000 0.002 0.004 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.001 0.000 0.001 0.000 0.001 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0	0.001 0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.001 0.000 0.001 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 C 0.000	0.000 0.008 0.008 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.003 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.002 0.000 0.001 0.004 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.019 0.000 0.003 0.001 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.00	0.000 0.001 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.002 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.010 0.000 0.002 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.003 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0 0.000 0 0.008 0 0.000 0 0.004 0 0.001 0 0.001 0 0.001 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0	.000 (.0	0.000 0.000 0.000 0.001 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000	0.000 0.000 0.002 0.000 0.002 0.001 0.000	0.001 0.000 0.001 0.000 0.002 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.003 0.000 0.001 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 (0.000 (0.	0.000 0 0.021 0 0.000 0 0.003 0 0.003 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0	0.000 0.000 0.001 0.001 0.000 0.000 0.000 0.000
x64 0.001 0.005 x65 0.001 0.001 x66 0.000 0.000 x67 0.001 0.001 x68 0.000 0.001 x70 0.000 0.000 x71 0.000 0.000 x72 0.001 0.000 x73 0.001 0.000 x74 0.000 0.000 x75 0.000 0.000 x76 0.000 0.000 x77 0.000 0.000 x78 0.000 0.000 x79 0.000 0.000	0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000		0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 C 0.000	.000	0.000 0.001 0.000 0.002 0.003 0.004 0.000 0.000 0.003 0.001 0.001 0.001 0.001 0.002 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.000 0.001 0.000 0.001 0.000 0.001 0.000 0.001	1 0.000 0 0.000 1 0.000	0.000 0.000 0.006 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.004 0.000 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.001 0.000 0.001 0.000 0.001 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0	0.001 0.000 0.001 0.000 0.001 0.000 0.001 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000	0.000 0.000 0.001 0.000 0.001 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 C 0.001 C 0.000	0.000 0.008 0.008 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.003 0.000 0.001 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.001 0.000 0.001 0.001 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.002 0.000 0.001 0.004 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.019 0.000 0.003 0.001 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000	0.000 0.001 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.002 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.010 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.003 0.000 0.001 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000	0.001 0 0.000 0 0.008 0 0.008 0 0.000 0 0.004 0 0.001 0 0.001 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0	.000 (.0	0.000 0.000 0.001 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.00	0.000 0.000 0.002 0.000 0.002 0.000 0.001 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.00	0.001 0.000 0.001 0.000 0.002 0.001 0.000 0.	0.001 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.001 0.000 0.003 0.000 0.001 0.002 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.00	0.001 (0.000 (0.	0.000 0 0.021 0 0.0021 0 0.000 0 0.003 0 0.000 0 0.000 0 0.0001 0 0.0001 0 0.0000 0 0.0000 0 0.0000 0 0.0000 0 0.0000 0 0.0000 0 0.0000 0	0.000 0.000 0.001 0.001 0.001 0.001 0.000

x38 x39 x40 x41 x42	x43 x44 x45 x46 x47 0.001 0.001 0.047 0.016 0.000	x48 x49 x50 x51 0.001 0.000 0.000 0.001	x52 x53 x54 x55 0.001 0.000 0.000 0.000	x56 x57 x58 x59 x60 x61 x62 x63 x64 x65 x66 x67 x68 x69 x70 x71 x72 x73 x74 x75 0.000 0.001 0.001 0.002 0.001 0.000 0.001 0.000 0.000 0.000 0.000 0.002 0.011 0.021 0.003 0.002 0.001 0.033 0.018 0.001 0.002
	0.000		0.000 0.000 0.000 0.000	0.000 0.000
0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.008 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	0.000 0.000 0.000 0.000 0.000		0.000 0.000 0.000 0.000	0.000 0
	0.017 0.010 0.025 0.005 0.011 0.005 0.003 0.003 0.001 0.004	0.012 0.006 0.004 0.008 0.005 0.002 0.002 0.008		0.015 0.009 0.007 0.009 0.002 0.005 0.001 0.000 0.001 0.000 0.011 0.001 0.005 0.030 0.016 0.009 0.008 0.004 0.014 0.127 0.001 0.005 0.001 0.002 0.001 0.002 0.000 0.001 0.000 0.001 0.000 0.001 0.000 0.003 0.006 0.003 0.007 0.002 0.005 0.005 0.002 0.000 0.003
	0.001		0.000 0.001 0.001 0.000	0.001 0.001 0.002 0.002 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.001 0.001 0.001 0.003 0.001 0.002 0.002 0.000 0.000 0.001
	0.001 0.000 0.001 0.000 0.000		0.000 0.000 0.000 0.000	0.001 0.000 0.001 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.001 0.001 0.000 0.001 0.000 0.001 0.000 0.000
	0.001 0.002 0.203 0.022 0.001	0.003 0.001 0.001 0.004	0.003 0.001 0.001 0.001	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	0.000 0.000 0.009 0.004 0.000 0.000 0.000 0.005 0.001 0.000		 	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
0.000 0.000 0.000 0.000 0.001	0.001 0.000 0.002 0.000 0.000	0.000 0.000 0.000 0.000	0.001 0.000 0.000 0.000	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	0.001 0.001 0.000 0.000			0.000 0.000 0.004 0.001 0.000 0
	0.000 0.000 0.000 0.000 0.000 0.001 0.007 0.003 0.001 0.002		0.000 0.000 0.000 0.000 0.001 0.002 0.001 0.003	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	0.001		0.003 0.001 0.003 0.044	0.001 0.004 0.001 0.012 0.001 0.005 0.001 0.000 0.001 0.002 0.000 0.001 0.002 0.008 0.003 0.008 0.003 0.008 0.004 0.003 0.003 0.015 0.000 0.004
	0.000 0.011 0.001 0.000 0.128		0.001 0.000 0.001 0.016	0.000 0.003 0.001 0.002 0.000 0.005 0.000 0.000 0.000 0.001 0.001 0.001 0.006 0.002 0.051 0.002 0.008 0.003 0.004 0.000 0.003
	0.043			0.029 0.020 0.015 0.017 0.003 0.010 0.001 0.000 0.027 0.028 0.006 0.072 0.032 0.017 0.014 0.006 0.020 0.313 0.001 0.006
	0.011 0.005 0.010 0.002 0.008 0.000 0.000 0.000 0.000 0.000	- 	0.006	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	0.005	0.010 0.005 0.005 0.011	0.005 0.004 0.003 0.018	0.007 0.004 0.005 0.009 0.001 0.057 0.000 0.000 0.002 0.013 0.003 0.017 0.008 0.014 0.008 0.003 0.007 0.010 0.000 0.016
	0.005 0.004 0.006 0.003 0.004		0.004 0.005 0.001 0.003	0.009 0.004 0.008 0.012 0.001 0.004 0.000 0.000 0.001 0.000 0.003 0.007 0.003 0.005 0.009 0.002 0.009 0.002 0.000 0.007
	0.013 0.009 0.008 0.004 0.011 0.007 0.002 0.002 0.001 0.002		0.029 0.009 0.002 0.010 0.003 0.001 0.000 0.003	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	0.007 0.002 0.002 0.001 0.002 0.008 0.029 0.016 0.002 0.022	0.126 0.031 0.013 0.029		0.117 0.025 0.003 0.009 0.002 0.008 0.000 0.000 0.001 0.001 0.001 0.007 0.003 0.005 0.001 0.004 0.001 0.003 0.000 0.001
0.022 0.037 0.007 0.100 0.028	0.014 0.031 0.018 0.007 0.044	0.034 0.021 0.014 0.050	0.222 0.024 0.006 0.033	0.191 0.015 0.007 0.015 0.002 0.013 0.001 0.000 0.016 0.002 0.028 0.047 0.058 0.029 0.020 0.005 0.017 0.016 0.001 0.012
	0.064 0.010 0.007 0.003 0.013		0.008 0.003 0.001 0.026	0.004 0.019 0.008 0.024 0.003 0.004 0.000 0.000 0.002 0.003 0.002 0.016 0.009 0.007 0.060 0.004 0.010 0.005 0.000 0.005
	0.049 0.005 0.006 0.005 0.007 0.097 0.002 0.004 0.003 0.003	0.005 0.004 0.002 0.020 0.001 0.003 0.002 0.005	0.003	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	0.002		 	0.001 0.001 0.001 0.002 0.000 0.002 0.000 0.000 0.000 0.000 0.000 0.001 0.001 0.001 0.002 0.009 0.007 0.003 0.011 0.000 0.025
	0.001 0.002 0.001 0.000 0.002	0.001 0.000 0.001 0.001		0.001 0.001 0.001 0.002 0.000 0.001 0.000 0.000 0.001 0.000 0.001 0.001 0.001 0.001 0.000 0.002 0.002 0.001 0.001 0.001 0.000 0.001 0.001 0.000 0.034
	0.022 0.014 0.004 0.004 0.007 0.007 0.014 0.053 0.015 0.025	0.006 0.003 0.002 0.015 0.010 0.013 0.008 0.014	0.010 0.003 0.001 0.009 0.016 0.006 0.003 0.049	0.005 0.005 0.002 0.012 0.002 0.003 0.000 0.000 0.016 0.001 0.001 0.001 0.014 0.005 0.008 0.002 0.009 0.015 0.000 0.005 0.002 0.009 0.015 0.001
	0.007 0.014 0.033 0.013 0.023 0.001 0.002 0.003 0.002 0.003	- 		0.001 0.001 0.000 0.002 0.001 0.001 0.000 0.000 0.000 0.000 0.001 0.001 0.005 0.002 0.002 0.002 0.003 0.009 0.003 0.000 0.001 0.001 0.001 0.001 0.005 0.002 0.002 0.002 0.003 0.009 0.003 0.000 0.004
	0.000 0.000 0.001 0.000 0.001		0.000 0.000 0.000 0.000	0.000 0.000
	0.000 0.000 0.002 0.000 0.001	0.000 0.000 0.000 0.000		0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.001 0.001 0.001 0.000 0.002 0.000 0.000 0.001
	0.000 0.000 0.000 0.000 0.000 0.021 0.030 0.047 0.039 0.032		0.000 0.000 0.000 0.000 0.019 0.089 0.016 0.023	0.000 0.000
	0.085	0.015 0.006 0.005 0.040	0.067 0.008 0.002 0.021	0.014
	0.020 0.019 0.082 0.017 0.038		0.024 0.010 0.003 0.017	0.029 0.013 0.011 0.025 0.002 0.013 0.001 0.000 0.009 0.017 0.011 0.059 0.031 0.024 0.016 0.007 0.033 0.101 0.001 0.001
	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.003 0.000 0.001	- 	0.000 0.000 0.000 0.000	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	0.000 0.000 0.003 0.000 0.001 1.013 0.007 0.012 0.004 0.004	0.000 0.000 0.000 0.000 0.003 0.003 0.006 0.004	0.000 0.000 0.000 0.000 0.003 0.002 0.001 0.006	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
0.000 0.000 0.000 0.000 0.000	0.000 1.370 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000
	0.003	0.002 0.002 0.002 0.019	0.017 0.004 0.003 0.003	0.003
	0.002 0.001 0.017 1.001 0.001 0.000 0.003 0.000 0.000 1.011	0.001 0.001 0.000 0.002 0.000 0.000 0.000 0.002	0.002 0.001 0.000 0.001 0.000 0.000 0.001 0.000	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	0.000 0.000 0.000 0.000 0.000	1.007 0.012 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000
	0.000 0.000 0.001 0.000 0.000	0.098 1.075 0.000 0.000	0.000 0.000 0.000 0.000	0.000 0.000
	0.003 0.015 0.024 0.002 0.032 0.000 0.004 0.001 0.000 0.006	0.021 0.021 1.106 0.030 0.001 0.001 0.002 1.006	 	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	0.001 0.033 0.005 0.001 0.118			0.006 0.023 0.007 0.005 0.000 0.002 0.000 0.000 0.002 0.000 0.005
0.022 0.063 0.005 0.017 0.008	0.009 0.013 0.024 0.011 0.017	0.007 0.015 0.023 0.040	0.011 1.015 0.079 0.078	0.010 0.011 0.015 0.018 0.004 0.353 0.001 0.000 0.038 0.003 0.042 0.037 0.006 0.032 0.067 0.005 0.023 0.018 0.000 0.005
	0.002			0.001 0.004 0.003 0.007 0.001 0.004 0.000 0.000 0.009 0.001 0.014 0.020 0.004 0.008 0.005 0.004 0.007 0.004 0.000 0.002
	0.000 0.000 0.000 0.000 0.000 0.018 0.030 0.048 0.011 0.067			0.000 0.000
	0.000			0.000 1.001 0.000
	0.014 0.001 0.003 0.000 0.003			0.001 0.012 1.001 0.001 0.000 0.001 0.000 0.001 0.000 0.001 0.000 0.001 0.002 0.014 0.001 0.015 0.002 0.001 0.002 0.001 0.000 0.000
	0.005 0.007 0.010 0.005 0.007 0.002 0.003 0.003 0.001 0.043			0.009 0.185 0.019 1.244 0.031 0.075 0.000 0.000 0.003 0.001 0.004 0.025 0.005 0.142 0.021 0.006 0.019 0.009 0.000 0.013 0.003 0.009 0.005 0.054 1.008 0.005 0.005 0.000 0.000 0.000 0.002 0.000 0.001 0.005 0.006 0.006 0.008 0.027 0.009 0.019 0.003 0.000 0.003
	0.002 0.003 0.003 0.001 0.043 0.006 0.012 0.010 0.006 0.009			0.008 0.015 0.002 0.006 0.001 1.009 0.001 0.000 0.004 0.003 0.009 0.003 0.009 0.003 0.009 0.003 0.009 0.003 0.009
	0.014 0.047 0.010 0.014 0.054			0.087 0.028 0.011 0.030 0.002 0.012 1.003 0.000 0.014 0.001 0.019 0.022 0.029 0.009 0.030 0.004 0.013 0.010 0.000 0.006
	0.000 0.000 0.000 0.000 0.000 0.002 0.003 0.009 0.002 0.006			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	0.002 0.003 0.009 0.002 0.006 0.000 0.001 0.001 0.000 0.002			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	0.000 0.000 0.001 0.000 0.000			0.000 0
	0.006 0.008 0.002 0.001 0.003			0.003
	0.000 0.000 0.001 0.000 0.000 0.002 0.011 0.001 0.001 0.001			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	0.000 0.005 0.001 0.000 0.001			0.000 0.002 0.000 0.007 0.001 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.001 1.001 0.005 0.001 0.000
0.000 0.000 0.000 0.000 0.000	0.002 0.000 0.000 0.000 0.001	0.000 0.000 0.001 0.000	0.001 0.001 0.002 0.000	0.000 0.000 0.000 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.003 1.006 0.005 0.000 0.000 0.000
	0.001 0.000 0.000 0.000 0.000 0.001 0.002 0.000 0.000 0.002	 		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	0.001 0.002 0.000 0.000 0.002 0.000 0.000 0.000 0.000 0.000			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	0.000 0.000 0.000 0.000 0.000			0.000 0
	0.000 0.000 0.000 0.000 0.000			0.000 0
	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.002 0.000 0.000			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	0.000 0.000 0.002 0.000 0.000 0.001 0.000 0.000 0.000 0.001			0.000 0.001 0.001 0.000
	0.002 0.002 0.001 0.000 0.000	0.002 0.000 0.000 0.003	0.000 0.000 0.000 0.007	0.001 0.002 0.000 0.002 0.002 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
				0000 1 000
0.002 0.000 0.000 0.000 0.000	0.000 0.008 0.010 0.001 0.007	0.000 0.000 0.000 0.000	0.000 0.001 0.001 0.002	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.003 0.000 0.000 0.006 0.001 0.000 0.008 0.001 0.010 0.010 0.000 0.000 0.000

x76	x77	x78	x79	x80	x81
0.163	0.003	0.009	0.004	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.008	0.005	0.009	0.007	0.005	0.007
0.003	0.003	0.002	0.002	0.007	0.013
0.001	0.001	0.000	0.001	0.000	0.006
0.000	0.000	0.000	0.000	0.000	0.001
0.001	0.010	0.032	0.010	0.001	0.001
0.000	0.000	0.001	0.001	0.000	0.000
0.000	0.000	0.001	0.001	0.000	0.000
0.000	0.001	0.002	0.000	0.000	0.000
0.000	0.002	0.004	0.001	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.002	0.001	0.001	0.002	0.012
0.003	0.001	0.003	0.007	0.005	0.003
0.002	0.001	0.003	0.003	0.001	0.000
0.013	0.009	0.015	0.013	0.008	0.012
0.003	0.003	0.004	0.004	0.008	0.019
0.000	0.000	0.001	0.002	0.000	0.000
0.003	0.005	0.005	0.004	0.005	0.025
0.003	0.005	0.002	0.004	0.004	0.020
0.008	0.007	0.005	0.004	0.020	0.035
0.004	0.001	0.001	0.001	0.009	0.012
0.006	0.020	0.017	0.006	0.028	0.014
0.008	0.011	0.013	0.005	0.026	0.021
0.019	0.004	0.004	0.015	0.114	0.006
0.006	0.002	0.003	0.010	0.024	0.003
0.002	0.001	0.001	0.002	0.003	0.002
0.001	0.004	0.008	0.005	0.004	0.002
0.000	0.001	0.000	0.001	0.001	0.002
0.004	0.002	0.002	0.010	0.013	0.003
0.016	0.008	0.017	0.010	0.009	0.011
0.023	0.001	0.001	0.001	0.001	0.001
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.034	0.073	0.015	0.020	0.014	0.137
0.024	0.007	0.012	0.011	0.054	0.012
0.045	0.011	0.021	0.011	0.015	0.018
0.000	0.000	0.000	0.000	0.000	0.001
0.000	0.000	0.001	0.000	0.000	0.000
0.003	0.004	0.003	0.002	0.002	0.005
0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.045	0.140	0.013	0.006	0.002
0.000	0.004	0.015	0.006	0.002	0.001
0.001	0.000	0.000	0.001	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.011
0.002	0.006	0.006	0.005	0.002	0.005
0.001	0.003	0.000	0.000	0.004	0.001
0.005	0.002	0.001	0.001	0.001	0.001
0.005	0.019	0.014	0.015	0.023	0.012
0.002	0.003	0.007	0.003	0.017	0.002
0.000	0.000	0.000	0.000	0.000	0.000
0.010	0.029	0.039	0.008	0.017	0.062
0.000	0.000	0.000	0.000	0.000	0.002
0.001	0.181	0.001	0.001	0.000	0.001
0.011	0.011	0.004	0.006	0.132	0.021
0.002	0.003	0.001	0.090	0.007	0.006
0.003	0.036	0.017	0.003	0.006	0.006
0.004	0.008	0.017	0.053	0.009	0.015
0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.002	0.004	0.006	0.001	0.004
0.001	0.002	0.000	0.009	0.001	0.001
0.000	0.000	0.001	0.000	0.000	0.001
0.001	0.003	0.001	0.001	0.002	0.001
0.000	0.000	0.001	0.000	0.002	0.000
0.045	0.001	0.000	0.001	0.002	0.003
0.000	0.000	0.000	0.017	0.001	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000	0.000
0.000	0.001	0.003	0.001	0.000	0.000
0.000	0.000	0.000	0.014	0.000	0.000
0.000	0.000	0.000	0.001	0.000	0.000
1.002	0.000	0.002	0.015	0.000	0.000
0.000	1.000	0.000	0.003	0.000	0.000
0.000	0.228	1.012		0.000	0.000
0.000	0.228	0.002	1.000	0.000	0.000
0.000	0.001	0.002	1.000 0.000	1.000	0.000
0.000	0.000	0.000	0.000	0.000	1.000
0.001	0.001	0.002	0.000	0.000	1.000

Optimization Results based on Input - output tables in 2011 usand (K)of Manat (Azerbaijan currency, 1 usd = 1.70 Manat Goal 1 Goal 2 **Given Data** Comparison Goal 3 tps://www.cbar.az/) **Total Optimum** Total Optimum Outpu Trade Balance as %of Total Produced umber of Employe Outnut Per Sector, K mana (Without Valu added) 2,215,758 4,742,105 1,169,027 1.90 1.18 Crop and animal production, hunting and related service activities x1 306% Production is over optimum value 10 Employment is over optimum value 21 423,577 - 498,572 4.06 1.433 Forestry and logging 1,235 Fishing and aquaculture x3 7,135 2560% Production is over optimum value 51 Employment is over optimum value 189,773 69,554 926 26.60 9.75 Mining of coal and lignite 1,353,196 489,414 Extraction of crude petroleum and natural gas x5 1,183,042 2102% Production is over optimum value 0 Employment is over optimum value 95% 26,056,354 24,858,372 18 22.02 1.14 2101% Mining of metal ores 56% Production is over optimum value Other mining and quarrying 95,587 -13% Production is under optimum value 200 84 Employment is far under optimum value 83,248 55,421 479 116 7,545 42,950 8% Production is over optimum value 6,041 632,737 44 Employment is far under optimum value 1,926 Mining support service activities 105 53,762 328% Production is over optimum value 15 Employment is over optim Manufacture of food products x9 505,685 -25% 2,162,935 1,589,859 71,468 84,148 - 615,207 3.14 x10 1874% Production is over optimum value 19.74 12.08 9,011 - 15,982 Manufacture of beverages 11 Employment is over optimum value x11 6.441 254% Production is over optimum value 15 Employment is over optimum value -874% 22,811 17,096 9.197 - 208.677 3.54 2.65 18,155 188% Production is over optimum value 34,822 - 39,135 2.88 x12 2 Employment is over optimum value 1.39 ufacture of textiles 3 Employment is over optimum value Manufacture of wearing apparel x13 28.979 33% Production is over optimum value 36 -65% 38,569 31,088 797 4.327 29.324 1.33 1.07 Manufacture of leather and related products x14 6,389 212% Production is over optimum value 7,548 9,878 10 Employment is over optimum value 2.12 Manufacture of wood and of products of wood and cork, except furniture x15 -76% Production is under optimum value 121 49 manufacture of articles of straw and plaiting materials 59.439 -14959 x16 34% Production is under optimum value Employment is far under optimum value Manufacture of paper and paper products 6% Production is over optimum value 1.06 21.73 x17 42,934 16 45,504 24,217 2,696 434 - 27,724 Printing and reproduction of recorded media 2073% Production is over optimum value 1 Employment is over optimum value Food and beverage service activities x19 106,385 -171% 188.979 98.166 10.687 138,142 461,190 Manufacture of chemicals and chemical products Nanufacture of basic pharmaceutical products and pharmaceutical x20 Employment is far under optimum value 70.654 -97% Production is under optimum value 45.936 208.619 53,853 x21 133,812 79,310 3,128 Manufacture of rubber and plastic products -41% Production is under optimum value 43 26 Employment is far under optimum value -209% 1,841 - 167,267 284,701 179,878 3,645 - 261,264 Manufacture of basic metals x23 166,836 17% Production is over optimum value 14 195,621 101,657 12,347 106,753 - 514,273 x24 279,094 73,963 5,164 27% Production is over optimum value 5,269 equipment ufacture of computer, electronic and optical products -53% Production is under optimum value 27 Employment is far under optimum value Manufacture of electrical equipment x26 230.315 -26% Production is under optimum value 48 21 Employment is far under optimum value -413% 171,581 129,635 4.826 24.600 - 733.062 ufacture of machinery and equipment n.e.c. x27 59% Production is under optimum value 49 Employment is far under optimum value 710 155 Manufacture of motor vehicles, trailers and semi-trailers x28 167,400 -98% Production is under optimum value 701 Employment is far under optimum value -15460% 3,774 1.973 236 2.073 - 585.533 x29 1,030 Manufacture of other transport equipment Manufacture of furniture x30 33,067 38% Production is over optimum value 22 -132% 45,681 33,016 1,476 2,660 - 63,169 1.38 1.00 x31 92% Production is under optimum value 153 Employment is far under optimum value 4,879 1,270 Other manufacturing Repair and installation of machinery and equipment x32 80,683 16 93,986 54,600 4,922 2,483,839 1,457,683 119,014 6,454 4 Employment is over optimum value 124,294 1.43 Manufacture of coke and refined petroleum products x18 1,018,712 144% Production is over optimum value 12 11% 131% Production is over optimum value Water collection, treatment and supply x34 49.836 1 Employment is over optimum value 115.006 76.945 21,618 1.54 x35 27,404 35,953 19,791 Sewerage 31% Production is over optimum value 2 0% 11,209 1.31 0.72 Waste collection, treatment and disposal activities; materials recovery x36 17,332 14,381 101% Production is over optimum value 28,891 Remediation activities and other waste management services x37 4,694,365 468,185 Construction of buildings x38 2,074,378 341% Production is over optimum value 4 6 Employment is over optimum value -3% 9,155,136 10 89,054 - 405,678 4.41 2.26 Public administration and defence; compulsory social security x70 2,164,420 134,937 7039 Land transport and transport via pipelines x40 1,224,469 113% Production is over optimum value 2,610,570 427,214 779,396 - 781,456 x41 9 Employment is over optimum value 13,773 Water transport 26,723 Air transport x42 12,124 4503% Production is over optimum value 9 Employment is over optimum value -14% 558,088 257,881 10 554,206 - 629,590 46.03 21.27 x43 294,399 128,145 Warehousing and support activities for transportation Postal and courier activities x44 2,359 86% Production is over optimum value 4,393 227% Production is over optimum value x45 x33 7 Employment is over optimum value -11% 3.27 Electricity, gas, steam and air conditioning supply 598,740 160% Production is over optimum value 0 Employment is over optimum value 1,555,815 653,967 134,406 191,471 - 153,823 2.60 x47 16,480 1,296 Publishing activities 14,087 17% Production is over optimum value Motion picture, video and television programme production, sound x48 recording and music publishing activities x49 4,530 Programming and broadcasting activities 8,330 306% Production is over optimum value 2 0 Employment is over optimum value 33,829 8,873 4.06 1.07 x50 346,257 19,255 55,033 -59,549 156,021 1,139,349 144,325 Computer programming, consultancy and related activitie x51 24,811 39% Production is over optimum value 34,517 Information service activities Financial service activities, except insurance and pension funding x53 651,058 17% Production is over optimum value mployment is under optimum value 763,261 201,086 201,059 471 11,596 1.17 rance, reinsurance and pension funding, except compul x54 128.581 48% Production is over optimum value mployment is under optimum value 190,931 25,816 59,888 security 1.36 x55 36% Production is over optimum value Activities auxiliary to financial services and insurance activities Real estate activities x56 559.856 149% Production is over optimum value 27 1.393.428 539,897 20,578 2.49 9.04 4,706 42,541 804% Production is over optimum value Employment is over optimum value Legal and accounting activities Activities of head offices; management consultancy activities x58 57.926 67,049 15,256 21,815 1.16 chitectural and engineering activities; technical testing and analysis x59 -53% Production is under optimum value 680.648 155,843 280,188 858.168 x60 54,288 Scientific research and development 387,027 -65% Production is under optimum value -268% 133,664 357,879 -92% x61 x62 392.791 420 347 206,050 89,611 1.07 Advertising and market research Other professional, scientific and technical activities 620,304 -97% Production is under optimum value 91 91 Employment is far under optimum value -3825% 16,065 6,824 14,042 - 628,455 -99% x63 x64 64,203 Rental and leasing activities 30% Production is over optimum value 86,467 88.974 49.707 **Employment activities** ravel agency, tour operator reservation service and related activitie x66 92,282 101,121 -192% 1972% Production is over optimum value Employment is over optimum value x67 Security and investigation activities 46,558 63% Production is over optimum value 1 Employment is over optimum value 75,661 59,240 9,973 29% Production is over optimum value Services to buildings and landscape activiti Office administrative, office support and other business support activitie x69 60,420 45% Production is over optimum value 25,068 Wholesale and retail trade and repair of motor vehicles and motorcycles x39 494% Production is over optimum value 1,590,735 840,550 77,916 1 Employment is over optimum value 85,361 x71 23.661 0 1.848.817 229,548 1.147.476 78.14 9.70 854,317 344,831 Human health activities 8,697 221,073 98.23 39.65 x72 9723% Production is over optimum value 2 Employment is over optimum value Residential care activities x73 22,439 125,313 77,651 16,431 3.46 3,218 91,753 205,363 Social work activities without accommodation x74 1,210 16869% Production is over optimum value 0 0 Employment is over optimum value 169.69 2.66 x75 x76 248,973 70,597 Libraries, archives, museums and other cultural activities 3,291 7465% Production is over optimum value 1 Employment is over optimum value 60,636 75.65 21.45 Gambling and betting activities x77 44 21,019 3 Employment is over optimum value 45,827 233,591 23,445 56,893 x78 1 Employment is over optimum value Sports activities and amusement and recreation activities 1011% Production is over optimum value 65,918 11.11 3.14 0.45 1.88 x79 28,266 39,921 12,817 4,016 3,837 Activities of membership organisations 37,588 Repair of computers and personal and household goods x80 6,336 493% Production is over optimum value 1 Employment is over optimum value 11,880 1281% Production is over optimum value 2 Employment is over optimum value Other personal service activities 16,421,583 1,988 3,092 2,276 -44795% 70,361,301 20,171,130 6,293,100 817 29,388,275

LEONTIEF: Leontief inverse matrix (total) per selected countries, 2011, index

LEONI	To:	inverse matr	ix (total) po	er selected co	ountries, A	2011, index																										
Country	(sector in column)	S1 S2	! S3	3 S4	S	5 S6	S7	S8	S9	S10	S11	S12	S13 S14	\$15	S16	S17	S18	S19	S20	S21 S22	S23	S24	S25	S26	S27 S	28 S29	\$30	S31	S32	S33	S34 S	S35 S36
Brunei Darussalam	S1	1.1	0.0	0.0	0.0	0.2	0.0	0.1	0.0	0.0		0.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.0 0.1	0.0		0.0		0.0		0.0		0.0 0.0
Brunei Darussalam Brunei Darussalam	S2 S3	0.1	0.1	0.0	0.2	0.1	0.0	0.1	0.1			0.1 0.1	0.1	0.1	0.1	0.1	0.1 0		0.1 0.1 0.2 0.2	0.6	0.1	0.1	0.2 0.0	0.0		0.0			-	0.1 0.0 0.1 0.0		0.1 0.0 0.0 0.0
Brunei Darussalam	S4	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.0 0.0		0.0	0.0		-		0.0		0.0 0.0
Brunei Darussalam	S5	0.5	0.0	0.0	0.0	1.6	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0			0.0 0.0	0.0	0.0	0.0	0.0 0.5	0.0	0.0	0.0				0.1 0.1		0.1 0.0
Brunei Darussalam Brunei Darussalam	S7	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0			0.0 0.0	0.0	0.0	0.1	0.1			0.1 0.2 0.0 0.1	0.0	0.0	0.1	0.0 0.1	0.1	0.0	0.0				0.1 0.0		0.1 0.0 0.0 0.0
Brunei Darussalam	S8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0	0.0	0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
Brunei Darussalam Brunei Darussalam	S9 S10	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0		0.1 0.1	0.1	0.1	0.1	0.1			0.1 0.0 0.0 0.0	0.1	0.1	0.1	0.0 0.0	0.0	0.0	0.0				0.1 0.0		0.1 0.0 0.0 0.0
Brunei Darussalam		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		.2 0.0	0.0	0.0	0.1	0.1			0.0 0.0	0.0	0.0	0.0	0.0 0.0			0.0				0.0 0.0		0.0 0.0
Brunei Darussalam	S12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0 1.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0				0.0		0.0 0.0
Brunei Darussalam Brunei Darussalam	S13 S14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0	0.0	1.1	0.1	0.2	0.2 0		0.1 0.1	0.0	0.1	0.0	0.0 0.0	0.0	0.0	0.0		0.0		0.0 0.0		0.0 0.0
Brunei Darussalam		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	1.1	0.0			0.0 0.0	0.0	0.0	0.0	0.0 0.0	-	0.0	0.0				0.0		0.0 0.0
Brunei Darussalam		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.1	1.2			0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0				0.0	-	0.0 0.0
Brunei Darussalam Brunei Darussalam	S17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0	0.0	0.0	0.0	0.0			0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0		0.0		0.0 0.0		0.0 0.0 0.0 0.0
Brunei Darussalam	S19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0	0.0	1.1 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
Brunei Darussalam Brunei Darussalam		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0			0.0 1.0	1.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0		0.0		0.0 0.0		0.0 0.0
Brunei Darussalam		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0				0.0 0.0	0.0	1.0	0.0	0.0 0.0	0.0	0.0	0.0				0.0 0.0		0.0 0.0
Brunei Darussalam	S23	0.2	0.0	0.0	0.0	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1 0	0.1	0.1 0.1	0.1	0.1	1.1	0.1 0.2	0.1	0.1	0.1	0.0	0.0	0.1	0.1 0.0	0.1	0.1 0.0
Brunei Darussalam Brunei Darussalam		0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.0		0.1 0.1	0.0	0.1	0.1	0.1			0.1 0.1 0.0 0.0	0.1	0.1	0.1	1.3 0.1 0.0 1.0	0.1	0.0	0.1		0.0		0.1 0.0		0.1 0.0 0.0 0.0
Brunei Darussalam	S26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.0 1.0	1.1	0.0	0.0				0.0 0.0		0.0 0.0
Brunei Darussalam	S27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0		-		0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.2	1.4	0.1				0.0		0.1 0.0
Brunei Darussalam Brunei Darussalam	S28 S29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0	0.0	0.0	0.0	0.0			0.0 0.0	0.0	0.0	0.0	0.0 0.0		0.0	0.1				0.0 0.0		0.0 0.0 0.1 0.0
Brunei Darussalam		0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0			0.1 0.0 0.0 0.0	0.0	0.0	0.0	0.1 0.0	0.0	0.0	0.0	0.0	1.0		0.0 0.0		0.0 0.0
Brunei Darussalam		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0			0.0 0.0	0.0	0.0	0.0	0.0 0.0	-	0.0	0.0		0.0		0.0		0.0 0.0
Brunei Darussalam Brunei Darussalam	S32 S33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0	0.0	0.0	0.0	0.0			0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0				1.0 0.0 0.0 1.0		0.0 0.0
Brunei Darussalam	S34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0			0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0		0.0		0.0 0.0		0.0 0.0
Brunei Darussalam	S35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0			0.0 0.0	0.0	0.0	0.0	0.0 0.0		0.0	0.0				0.0		1.0 0.0
Brunei Darussalam Saudi Arabia	S36 S1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0 0.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0				0.0 0.0		0.0 1.0 0.0 0.0
Saudi Arabia	S2	0.0	1.0	0.0	0.2	0.0	0.0	0.0	0.1	4.4		0.1	0.1	0.0	0.0	0.0			0.1 0.1	0.4	0.2	0.0	0.1 0.0		0.0	0.0				0.0 0.0		0.0 0.0
Saudi Arabia	S3	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.1	0.3	0.1	0.1	0.1	-		0.1 0.1	0.0	0.1	0.0	0.0 0.0	0.0	0.0	0.0		0.0		0.0		0.0 0.0
Saudi Arabia Saudi Arabia	S4 S5	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0			0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0		0.0		0.0 0.0	-	0.0 0.0
Saudi Arabia	S6	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0		0.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0				0.0		0.0 0.0
Saudi Arabia	S7	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0		0.0	0.0	0.0	0.0	0.0			0.0 0.1	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0		0.0		0.0		0.0 0.0
Saudi Arabia Saudi Arabia	S8 S9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0		0.0 0.0	0.0	0.0	0.0	0.0			0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.1	0.0	0.0		0.0		0.0 0.0		0.0 0.0
Saudi Arabia	S10	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0		0.1	0.0	0.1	0.1		0.1 0		0.1 0.1	0.0	0.1	0.0	0.0 0.0	0.0	0.0	0.0				0.0		0.0 0.0
Saudi Arabia	S11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			.1 0.0	0.0	0.0	0.1		0.0 0		0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0				0.0		0.0 0.0
Saudi Arabia Saudi Arabia	S12 S13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 1.1 0.0 0.0	1.3	0.0	0.0	0.0			0.0 0.0 0.3 0.2	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0		0.0		0.0 0.0		0.0 0.0
Saudi Arabia	S14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0 0	0.0	0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
Saudi Arabia Saudi Arabia	S15 S16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0 0.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.0 0.0			0.0				0.0 0.0		0.0 0.0 0.0 0.0
Saudi Arabia	S17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0			0.0 0.0	0.0	0.0	0.0	0.0 0.0			0.0				0.0 0.0		0.0 0.0
Saudi Arabia	S18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0			0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	-	0.0				0.0		0.0 0.0
Saudi Arabia Saudi Arabia	S19 S20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0 0.0	0.0	0.0	0.0				1.0 0.0 0.0 1.0	0.0	0.0	0.0	0.0 0.0			0.0				0.0 0.0		0.0 0.0 0.0 0.0
Saudi Arabia	S21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			1.0 0.1	0.0	0.0	0.0				0.0 1.0	1.1	0.0	0.0	0.0 0.0			0.0				0.0 0.0		0.0 0.0
Saudi Arabia	S22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0				0.0 0.0	0.0	1.0	0.0	0.0 0.0			0.0				0.0		0.0 0.0
Saudi Arabia Saudi Arabia	S23 S24	0.1	0.0	0.1	0.1	0.2	0.2	0.2	0.2			0.1	0.2	0.2	0.2		0.2 0		0.2 0.2 0.1 0.1	0.0	0.1	0.1	0.1 0.1 1.3 0.0	0.2	0.1	0.1				0.1 0.0		0.1 0.0 0.0 0.0
Saudi Arabia	S25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.0 1.0			0.0				0.0		0.0 0.0
Saudi Arabia	S26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.0 0.0		-	0.0				0.0		0.0 0.0
Saudi Arabia Saudi Arabia	S27 S28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0	0.0	0.0	0.1	0.0			0.0 0.0	0.0	0.0	0.0	0.1 0.0		0.0	1.2				0.0 0.0		0.0 0.0 0.0 0.0
Saudi Arabia	S29	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1			0.1	0.0	0.0	0.1	0.1		0.1	0.1 0.1	0.0	0.1	0.1	0.1 0.0	0.1	0.0	0.1	1.1	0.1	0.1	0.1 0.0	0.1	0.0 0.0
Saudi Arabia Saudi Arabia	S30 S31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0 0.0	0.0	0.0	0.0				0.0 0.0 0.1 0.1	0.0	0.0	0.0	0.0 0.0			0.0				0.0 0.0		0.0 0.0 0.1 0.0
Saudi Arabia	S32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.0 0.0		-	0.0				1.0 0.0		0.0 0.0
Saudi Arabia	S33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.0 0.0			0.0				0.0 1.0		0.0 0.0
Saudi Arabia Saudi Arabia	S34 S35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.0 0.0			0.0				0.0 0.0		0.0 0.0 1.0 0.0
Saudi Arabia	S36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0		0.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.0 0.0			0.0				0.0 0.0		0.0 1.0
Kazakhstan	S1	1.2	0.0	0.0	0.0	0.4	0.1	0.1	0.0			0.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.0 0.1			0.0				0.0		0.0 0.0
Kazakhstan Kazakhstan	S2 S3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0			0.0 0.1	0.0	0.0	0.0	0.0			0.0 0.0	0.2	0.0	0.0	0.0 0.0			0.0				0.0 0.0		0.0 0.0 0.0 0.0
Kazakhstan	S4	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.0 0.0			0.0				0.0 0.0		0.0 0.0
Kazakhstan	S5	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0			0.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.0 0.1			0.0				0.0		0.0 0.0
Kazakhstan Kazakhstan	S6 S7	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0			0.0 0.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.0 0.0			0.0				0.0 0.0		0.0 0.0
Kazakhstan	S8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1			0.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.0 0.0			0.0				0.0 0.0		0.0 0.0
Kazakhstan	S9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.1 0.0			0.0				0.0		0.0 0.0
Kazakhstan Kazakhstan	S10 S11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0	0.0	0.0				0.0 0.0	0.0	0.0	0.0	0.0 0.0			0.0				0.0 0.0		0.0 0.0
Kazakhstan	S12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.0 1.1	0.0	0.0	0.0	0.0			0.0 0.0	0.0	0.1	0.0	0.0 0.0			0.0				0.0 0.0		0.0 0.0
Kazakhstan	S13	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1			0.1	1.4	0.5	0.2				0.3 0.2	0.0	0.2	0.0	0.0 0.0			0.0				0.0		0.0 0.0
Kazakhstan Kazakhstan	S14 S15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0 0.0	0.0	0.0	1.0				0.0 0.0	0.0	0.0	0.0	0.0 0.0			0.0				0.0 0.0		0.0 0.0
Kazakhstan	S16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.1	1.1			0.0 0.0	0.0	0.0	0.0	0.0 0.0			0.0				0.0 0.0		0.0 0.0
Kazakhstan	S17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0			0.0 0.0	0.0	0.0	0.0	0.0 0.0			0.0				0.0		0.0 0.0
Kazakhstan	S18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Kazakhstan Kazakhstan	S19 S20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0 0.0	0.0			0.0	0.0	0.0
Kazakhstan	S21	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0 0.0	0.0) (0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kazakhstan Kazakhstan	S22 S23	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.2	0.0		0.0 0.0			0.0 0.1	0.0			0.0	0.0	0.0
Kazakhstan	S24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1		0.0 0.0	-		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kazakhstan Kazakhstan	S25 S26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0 0.0				0.0	0.0	0.0
Kazakhstan	S27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 1.1			0.0				0.0	0.0	0.0
Kazakhstan Kazakhstan	S28 S29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0 0.0	0.0			0.0	0.0	0.0
Kazakhstan	S30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0		0.1 0.0			0.1	0.1			0.1	0.1	0.0
Kazakhstan Kazakhstan	S31 S32	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		0.2 0.1	-		0.1 0.1	1.2			0.2	0.2	0.0
Kazakhstan	S33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0					0.0	0.0
Kazakhstan	S34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0 0.0				1.1	0.1	0.0
Kazakhstan Kazakhstan	S35 S36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0 0.0	0.0			0.0	0.0	1.0
Colombia	S1	1.1	0.0	0.0	0.0	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0	-		0.0	0.0			0.0	0.0	0.0
Colombia Colombia	S2 S3	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1		0.0 0.0			0.0 0.0	0.0			0.0	0.0	0.0
Colombia	S4	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0) (0.0	0.0	0.0	0.0	0.0	0.0	0.0
Colombia Colombia	S5 S6	0.1	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0	-		0.0 0.0	0.0			0.0	0.0	0.0
Colombia	S7	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0					0.0	0.0
Colombia	S8 S9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3 0.1	0.0 1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.2 0.0			0.0 0.0	0.0			0.0	0.0	0.0
Colombia Colombia	S10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.3	0.3	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.0		0.0 0.0			0.0	0.0			0.0		0.0
Colombia	S11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0	-		0.0				0.0	0.0	0.0
Colombia Colombia	S12 S13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0		0.0 0.0	-		0.0 0.0	0.0	-		0.0	0.0	0.0
Colombia	S14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0				0.0	0.0	0.0
Colombia Colombia	S15 S16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0 0.0	0.0			0.0	0.0	0.0
Colombia	S17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0		0.0 0.0	-		0.0		-		0.0	0.0	0.0
Colombia Colombia	S18 S19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0 0.0				0.0	0.0	0.0
Colombia	S20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0	0.0			0.0	0.0	0.0
Colombia Colombia	S21 S22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	1.0	0.0	0.0		0.1 0.1			0.0 0.0	0.0			0.1	0.0	0.0
Colombia	S23	0.1	0.0	0.1	0.0	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.0	0.1	1.1	0.1		0.1 0.1	-		0.0	0.0			0.1	0.1	0.0
Colombia Colombia	S24 S25	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0		0.1 0.0			0.0 0.0				0.0	0.0	0.0
Colombia	S26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.1 0.0			0.0				0.0	0.0	0.0
Colombia	S27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 1.2			0.0	0.0	-		0.0	0.0	0.0
Colombia Colombia	S28 S29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0 0.0				0.0	0.0	0.0
Colombia	S30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	-	0.1 0.1	_		0.0 1.0	0.0			0.0	0.0	0.0
Colombia Colombia	S31 S32	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-	0.2 0.2			0.1 0.0	1.2			0.1	0.1	0.0
Colombia	S33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0						0.0
Colombia Colombia	S34 S35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0 0.0	0.0			1.1 0.0	0.0	0.0
Colombia	S36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0	0.0			0.0	0.0	1.0
Norway Norway	S1 S2	0.0	1.0	0.0	0.0	0.3	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0 0.0			0.0 0.0	0.0	-		0.0	0.0	0.0
Norway	\$3	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0	0.0			0.0	0.0	0.0
Norway Norway	S4 S5	0.2	0.1	0.3	0.0	0.1 1.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0 0.0	0.0			0.0	0.0	0.0
Norway	S6	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0					0.0	0.0
Norway Norway	S7 S8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0		0.0 0.0			0.0 0.0				0.0	0.0	0.0
Norway	S9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0	0.0			0.0	0.0	0.0
Norway Norway	S10 S11	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0 0.0				0.0	0.0	0.0
Norway	S12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0				0.0	0.0	0.0
Norway Norway	S13 S14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2 1.2	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0		0.0 0.0			0.0 0.0				0.0	0.0	0.0
Norway	S15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0		0.0 0.0			0.0 0.0				0.0	0.0	0.0
Norway Norway	S16 S17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1 0.0	0.0 1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0 0.0						0.0
Norway	S18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.1	0.1	0.0	0.0	0.0	0.0		0.0 0.0			0.0 0.0				0.0	0.0	0.0
Norway	S19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.1		0.0 0.0			0.0	0.0			0.0	0.0	0.0
Norway Norway	S20 S21	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	1.0	0.0	0.0	0.0		0.0 0.0			0.0 0.0				0.0		0.0
Norway	S22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0		0.0 0.1			0.0 0.1				0.0	0.0	0.0
Norway Norway	S23 S24	0.1	0.0	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	1.2		0.2 0.1	-		0.0 0.1				0.0	0.1	0.0
Norway	S25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0 0.0			0.0 0.0				0.0	0.0	0.0
Norway Norway	S26 S27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.1 0.0 0.0 1.4			0.0 0.0				0.0	0.0	0.0
Norway	S28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.1			0.0				0.0	0.0	0.0
Norway	S29	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0		0.0 0.0			0.1					0.1	0.0
Norway Norway	S30 S31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.0		0.0 0.0			0.0 1.1 0.1				0.0	0.1	0.0
Norway	S32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0	_		0.0				0.0	0.0	0.0
Norway Norway	S33 S34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0 0.0					0.0	0.0
Norway	S35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0) (0.0	0.0	0.0	0.0	0.0	1.0	0.0
Norway Russian Federatio	S36 n S1	0.0 1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0			0.0 0.0				0.0	0.0	0.0
Russian Federatio	n S2	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0 0.0	0.0) (0.0	0.0	0.0	0.0	0.0	0.0	0.0
Russian Federatio	n 53	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0) (0.0	0.0	0.0	0.0	0.0	0.0	0.0

**************************************						-																														
Second column Second colum																										-										
New York Service Servi																																				
**************************************	Russian Federation	S8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
THE PROPER 19 19 19 19 19 19 19 19 19 19 19 19 19					411							0.1													411											
THE STATE WAS ALL ALL ALL ALL ALL ALL ALL ALL ALL A																																				
The section of the content of the																																				
No. 1984 1985 1985 1985 1985 1985 1985 1985 1985	Russian Federation	S13	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	1.5	0.6	0.1	0.4	0.4	0.3	0.3	0.3	0.1	0.1 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
Section 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.																				• • • • • • • • • • • • • • • • • • • •																
Section 19																				0.0																
New																	-			0.0																
Column			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
Part																					1.2	0.0														
																						0.1														
Septimine Septim				0.0			0.0	0.0	0.0		0.0	0.0					0.0	0.0		0.0	0.0	0.0	0.1	1.1 0.0	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0		
			0.2	0.1	0.1	0.1	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1 1.1	0.1	0.2	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1		
See March 156									-		-	0.1				0.1	-	-		• • • • • • • • • • • • • • • • • • • •		-														
The Park Note 15																																				
	Russian Federation	S27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0			
**************************************								0.0													0.0							0.0								
																															-					
Seed March 1989																									-						-					
Mathematical Math	Russian Federation	S32		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0			
See																																				
Mathematical Content of the conten																																				
Sept.																																				
Part	Malta		1.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0 0.0	0.0	0.1	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	
September 19																																				
Mathematical Content of the conten					0.1																															
Math				-	0.0																															
Part			0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
Property																																				
Part																																				
No. 14. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.																																				
No. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
Part																								-												
September 1969 1969 1969 1969 1969 1969 1969 196																0.1		-	-																	
Math																	-					-		-												
Marke 19 62 63 63 63 63 64 65 65 65 65 65 65 65 65 65 65 65 65 65			0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0			
Model 19 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9				-																	***															
Male 124 62 62 63 64 64 65 65 65 65 65 65 65 65 65 65 65 65 65																0.1																				0.1 0.0
Port	Malta	S20	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.1	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
Mate 134					-					-								-				-		-												
Marke 152						-	0.0	0.0	0.0						0.0	0.0	0.0												0.0		0.0	0.0	0.0			
Mark 156				0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.1		0.0	0.0	0.1	0.1	0.0	0.1 0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
Male 177				0.0	0.0	0.0		0.0				0.0	0.0	0.0							0.0	0.0						0.0	0.0	0.0						
Mark 538																																				
Make S29 Make S																													-							
Mark S12																																				
Mata S32																																				
Mark 534																																				
Math S34																																				
Malta 336 00 00 00 00 00 00 00 00 00 00 00 00 00																																				
Indonesia S1																																				
Indonesis S2																																				
Indonesis S4		S2																				-														
Indonesia 55 01 00 00 00 00 11 00 00 00 11 00 00 00																																				
Indonesia S6																																				
Indonesia S7																																				
Indonesia S9																																				
Indonesia S10 00 00 00 00 00 00 00 00 00 00 00 00 0																																				
Indonesia S11 00 00 00 00 00 00 00 00 00 00 00 00 0																																				
Indonesia S12 0.0																																				
Indonesia S14 00 00 00 00 00 00 00 00 00 00 00 00 00																																				
Indonesia S15 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.																																				
Indonesia S16 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.																					-															
Indonesia S17 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.																																				
Indonesia S19 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.																																				
Indonesia S20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0																																				
Indonesia S21 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.																																				
Indonesia S22 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0																																				
Indonesia S23 0.1 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1																																				
Indonesia 524 0.0 0.0 0.1 0.1 0.0 0.1 0.1 0.1 0.1 0.1		S23																						-											0.1	0.2 0.0
	Indonesia	S24	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1 0.1	1.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1 0.0

Indonesia	S25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Indonesia	S26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indonesia Indonesia	S27 S28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Indonesia	S29	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	1.3	0.1	0.1	0.0	0.0	0.0	0.1	0.0
Indonesia Indonesia	S30 S31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
Indonesia	S32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
Indonesia Indonesia	S33 S34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
Indonesia	S35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
Indonesia Greece	S36 S1	0.0 1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0 0.0
Greece	S2	0.1	1.1	0.1	0.1	0.1	0.0	0.0	0.0	0.7	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greece Greece	S3 S4	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greece	S5	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greece Greece	S6 S7	0.0	0.0	0.0	0.0	0.0	0.0	0.0 1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greece	S8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greece Greece	S9 S10	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greece	S11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greece	S12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greece Greece	S13 S14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.1	0.3	0.2	0.2	0.2	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greece	S15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greece Greece	S16 S17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greece	S18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greece Greece	S19 S20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greece	S21	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greece Greece	S22 S23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greece	S24	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	1.1	0.0	0.2	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
Greece Greece	S25 S26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greece	S27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greece Greece	S28 S29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Greece	S30	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	1.0	0.1	0.0	0.0	0.0	0.0	0.0
Greece Greece	S31 S32	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.0	0.0	1.0	0.0	0.0	0.1	0.0
Greece	S33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
Greece Greece	S34 S35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
Greece	S36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Australia Australia	S1 S2	0.1	1.2	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia	S3	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia Australia	S4 S5	0.0	0.1	0.1	0.0	0.0 1.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia	S6	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia Australia	S7 S8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia	S9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia Australia	S10 S11	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.2 1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia	S12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia Australia	S13 S14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia	S15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia Australia	S16 S17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia	S18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia Australia	S19 S20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia	S21	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia Australia	S22 S23	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.1	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
Australia	S24	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.3	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0
Australia Australia	S25 S26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia	S27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia Australia	S28 S29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia	S30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia Australia	S31 S32	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.0	1.0	0.1	0.1	0.2	0.0
Australia	S33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
Australia Australia	S34 S35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 1.1	0.0
Australia	S36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Chile Chile	S1 S2	0.1	0.0	0.0	0.0	0.4	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chile	S3	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chile Chile	S4 S5	0.1	0.1	0.0	1.0	0.0 1.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chile	S5 S6	0.1	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chile	S7	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chile Chile	S8 S9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

S10 S11	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	1.2	0.3	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0
S12 S13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1 0.0	0.0	0.0	0.0 0.1	0.0	0.0	0.0	0.0 0.1	0.0 0.1	0.0	0.1 0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0
S14 S15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0 0.0	0.0 1.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0
S16 S17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0 0.0	0.0 1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0
S18 S19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0
S20 S21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0 0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0
S22 S23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0 1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0				0.0
S24 S25	0.1	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	1.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S26 S27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S29 S30	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	1.0	0.1	0.0	0.0	0.0	0.0
S31 S32	0.1	0.2	0.1	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.0				0.1
S33 S34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0
S35 S36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				1.0 0.0
S1 S2	1.2 0.1	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0				0.0
S3 S4	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
S5 S6	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S7	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S8 S9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S10 S11	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.3 1.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0
S12 S13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0
S14 S15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 1.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0
S16 S17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.5 0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0
S18 S19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0
S20 S21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
S22 S23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S24	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	1.3	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1
S25 S26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S27 S28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S29 S30	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	1.0	0.1			***	0.1
S31 S32	0.0	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.0				0.1
S33 S34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0
S35 S36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				1.1 0.0
S1 S2	1.1	0.0	0.0	0.0	0.4	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0				0.0
S3 S4	0.0	0.0	1.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S5 S6	0.1	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S7	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S8 S9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S10 S11	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	1.2	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S12 S13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S14 S15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0
S16 S17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.2 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0
S18 S19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S20 S21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
S22 S23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
S24 S25	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	1.2	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
S26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S27 S28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S29 S30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.2 0.0	0.1 1.0	0.1				0.0

Peru	S31	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.0	1.2	0.1	0.1	0.1	0.1	0.0
Peru	S32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
Peru	S33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
Peru	S34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
Peru	S35	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
Peru	S36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0

Source: OECD Input Putput Tables, 2011, https://www.oecd.org/sti/ind/input-outputtables.htm

APPENDIX VII

LEONTIEF: Leontief inverse matrix (total) per Azerbaijan, 2011, index

Country	To: (sector in																																				
	column) S	S1 S	52 S3	S4	S5	S 6	5 S	7 S8	S9	S1	0 S11	S12	2 S13	S14	S15	5 S16	S17	7 S18	S19	S2	20 S21	S22	S23	S 524	S2	5 S26	S S27	7 S28	S29	9 S3	0 S3:	1 S32	S33	S34	S3	5 S36	
Azerbaijan	S1	1.1	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S2	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Azerbaijan	S3	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S4	0.0	0.0	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S5	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S6	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S7	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S8	0.0	0.0	0.0	0.0	0.1	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S9	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	1.2	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Azerbaijan	S10	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.2	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Azerbaijan	S11	0.0	0.0	0.0	0.0	0.2	0.1	0.2	0.4	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S12	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.2	0.1	0.2	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S16 S17	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.8	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S18	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
Azerbaijan Azerbaijan	S19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S21	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.1	0.1	0.1
Azerbaijan	S23	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.1	0.1	0.0	1.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S24	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Azerbaijan	S26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S29	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Azerbaijan	S30	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.1	1.0	0.1	0.0	0.0	0.0	0.0	0.1
Azerbaijan	S31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.1	0.0
Azerbaijan	S32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
Azerbaijan	S33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
Azerbaijan	S34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
Azerbaijan	S35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
Azerbaijan	S36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0

APPENDIX VIII

Mean of LEONTIEF: Leontief inverse matrix (total) per selected countries, 2011, index

To: (sector in																																				
column)	S1 S2	. S	3 S4	S5	S	6 S7	S8	S9	Si	10 S1	1 S12	S13	S14	S15	5 S1	6 S17	,	S18 S19	9 S20) :	S21 S22	2 S2	3 S2	4 S25	5 S26	S S27	7 S28	S29	S30	S31	S:	32 S	33 S34	\$ S35	S S S S S S S S S S S S S S S S S S S	
S1	1.152	0.004	0.0	0.0	0.4	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S2	0.044	1.124	0.1	0.1	0.0	0.0	0.0	0.1	0.6	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S3	0.012	0.013	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.3	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S4	0.025	0.057	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S5	0.111	0.004	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S6	0.008	0.004	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S7	0.002	0.002	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S8	0.006	0.004	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S9	0.053	0.038	0.1	0.0	0.0	0.0	0.0	0.0	1.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
S10	0.037	0.016	0.0	0.0	0.0	0.1	0.0	0.1	0.0	1.2	0.3	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
S11	0.009	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
S12	0.004	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S13	0.009	0.024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.3	0.1	0.2	0.2	0.2	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S14	0.008	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S15	0.002	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S16	0.003	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S17	0.007	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S18	0.003	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S19	0.032	0.029	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
S20	0.009	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
S21	0.030	0.049	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
S22	0.013	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
S23	0.123	0.069	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	1.2	0.1	0.2	0.2	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.0
S24	0.046	0.057	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	1.2	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0		0.0
S25	0.004	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
S26	0.003	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
S27	0.009	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0		0.0
S28 S29	0.004	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0		0.0
	0.108	0.098	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	1.7	0.1	0.1	0.1	0.1	0.1		0.0
S30	0.012	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
S31	0.049	0.101	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	1.2	0.1	0.1	0.1	0.1	0.0
S32	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
S33	0.000	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0		0.0
S34	0.009	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0
S35	0.093	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
S36	0.000	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0

Source: Author's own analysis based on the OECD Input Putput Tables, 2011, https://www.oecd.org/sti/ind/input-outputtables.htm

APPENDIX IX

Standard Deviation of LEONTFT: Leontief inverse matrix (total) per selected countries, 2011, index

	S1 S2		S3			S6 S7		,	- ,		C11	C12	S13	C1/	C15	S16		S17	S18	S19	S20	SZ	01 C	22 S2	23 52	24	S25 S	26 9	527	S28 S	20 0	30 531	/ V	S32	S33	S34	S35	S36
To: (sector in column)	51 54		53	54 5:		50 57	, 5	8	29	510	511	512	513	514	515	510	,	517	518	219	520	52	21 5	522 52	23 52	24	525	526	527	528 5.	29 5	30 531		532	533	534	535	536
S1	0.059	0.003	0.0	0.0	0.1	0.0	0.1	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0 0.0
S2	0.027	0.116	0.0	0.1	0.0	0.0	0.0	0.0	0.:	3	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0		.0	0.0	0.0	0.1	0.0	0.0	0.1		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0 0.0
S3	0.024	0.021	0.1	0.1	0.0	0.0	0.0	0.0		-	0.1	0.0	0.3	0.3	0.1	0.1	0.1	-		-	0.0	0.1	0.0	0.2	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		-		0.0 0.0
S4	0.059	0.049	0.1	0.1	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0 0.0
S5	0.108	0.002	0.0	0.0	0.1	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0 0.0
S6	0.011	0.006	0.0	0.0	0.0	0.2	0.0	0.0	0.0	.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0 0.0
S7	0.002	0.002	0.0	0.0	0.0	0.0	0.1	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0 0.0
S8	0.002	0.003	0.0	0.0	0.0	0.0	0.0	0.1	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0 0.0
S9	0.039	0.034	0.0	0.0	0.0	0.0	0.0	0.0	0.	.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.	.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0 0.0
S10	0.017	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0 0.0
S11	0.004	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0 0.0
S12	0.003	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0 0.0
S13	0.004	0.021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0	.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0 0.0
S14	0.005	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0 0.0
S15	0.002	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0 0.0
S16	0.002	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0 0.0
S17	0.007	0.025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0
S18	0.003	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0
S19	0.097	0.089	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.	.0	0.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0	0.0	0.0
S20	0.012	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0
S21	0.019	0.050	0.1	0.0	0.0	0.0	0.0	0.1	0.0	.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0
S22	0.015	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0
S23	0.043	0.054	0.0	0.1	0.0	0.0	0.0	0.0	0.	.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0	0.0	0.0
S24	0.020	0.048	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0 0.0
S25	0.003	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ð	0.0	0.0 0.0
S26	0.003	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	٥	0.0	0.0 0.0
S27	0.006	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	D	0.0	0.0 0.0
S28	0.004	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	J	0.0	0.0 0.0
S29	0.226	0.178	0.2	0.3	0.2	0.3	0.3	0.3	0.	.1	0.3	0.3	0.3	0.2	0.3	0.4	0.3	0.1	0.	.0	0.1	0.3	0.5	0.3	0.2	0.3	0.2	0.3	0.2	0.4	1.7	0.2	0.3	0.1	0.1	1	0.2	0.7 0.0
S30	0.008	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	o l	0.0	0.0 0.0
S31	0.029	0.090	0.1	0.1	0.0	0.1	0.1	0.0	0.	.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	J	0.0	0.1 0.0
S32	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0 0.0
S33	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	J	0.0	0.0 0.0
S34	0.007	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	J	0.0	0.0 0.0
S35	0.306	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	o l	0.0	0.0 0.0
S36	0.000	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3	0.0	0.0

Source: Author's own analysis based on the OECD Input Putput Tables, 2011, https://www.oecd.org/sti/ind/input-outputtables.htm

APPENDIX X

Azerbaijan in the range of the Standard Deviation of LEONTIEF: Leontief inverse matrix (total) per selected countries, 2011, index

Sectors	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19	S20	S21	S22	S23	S24	S25	S26	S27	S28	S29	S30	S31	S32	S33	S34	S35	S36	Total T	F
S1	Т	F	F	F	F	F	F	Т	F	F	F	F	F	F	F	F	F	F	F	Т	F	F	F	F	F	F	F	F	F	F	Т	F	F	Т	F	F	5	31
S2	Т	F	Т	Т	Т	Т	F	Т	F	Т	F	F	F	F	F	F	F	F	F	Т	T	F	Т	Т	F	F	F	Т	Т	Т	Т	F	F	F	F	F	15	5 21
S3	Т	Т	Т	Т	Т	Т	Т	Т	Т	T	Т	Т	Т	T	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	T	F	Т	Т	Т	Т	Т	Т	Т	F	34	4 2
S4	Т	Т	F	Т	Т	Т	Т	Т	Т	Т	Т	F	T	Т	Т	Т	Т	Т	Т	Т	Т	Т	T	Т	Т	Т	T	Т	Т	Т	Т	Т	Т	Т	Т	F	33	3 3
S5	Т	F	F	F	Т	F	F	F	F	F	F	F	F	F	F	F	F	Т	F	F	F	F	F	F	F	F	F	F	F	F	Т	F	Т	Т	Т	F	7	29
S6	Т	Т	F	T	Т	Т	T	Т	T	F	T	F	F	T	Т	Т	Т	T	T	T	T	T	T	Т	Т	Т	F	T	T	Т	Т	Т	Т	T	Т	F	30	0 6
S7	Т	Т	Т	F	Т	Т	F	Т	Т	Т	Т	Т	Т	Т	Т	F	Т	T	Т	Т	Т	Т	Т	F	Т	Т	T	Т	F	Т	F	F	Т	Т	Т	F	28	8 8
S8	Т	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	T	Т	F	F	F	F	Т	T	Т	F	Т	Т	Т	Т	Т	Т	F	12	2 24
S9	Т	F	Т	T	Т	Т	Т	Т	T	F	T	Т	T	T	Т	Т	Т	T	Т	T	T	T	T	Т	Т	Т	T	Т	T	F	Т	Т	T	F	Т	F	31	1 5
S10	F	F	Т	T	Т	Т	T	F	F	Т	F	T	Т	F	Т	F	Т	F	F	T	T	F	F	Т	F	Т	F	T	T	F	F	Т	F	F	Т	F	18	8 18
S11	Т	F	Т	T	F	F	F	F	F	F	F	F	T	F	Т	F	F	F	Т	F	F	Т	F	Т	Т	F	T	F	F	F	F	Т	Т	Т	Т	F	14	4 22
S12	F	Т	F	Т	F	F	Т	F	Т	Т	F	F	T	Т	F	Т	T	F	F	T	F	Т	Т	Т	Т	F	T	F	F	Т	F	F	Т	T	F	F	18	8 18
S13	Т	Т	T	T	T	T	T	T	T	T	T	T	F	T	Т	T	F	F	F	F	F	T	T	F	T	F	T	F	F	F	F	Т	T	T	T	F	23	3 13
S14	Т	F	Т	Т	Т	Т	F	F	F	Т	F	Т	F	F	Т	F	Т	F	Т	F	Т	F	F	Т	F	Т	Т	Т	T	Т	Т	Т	F	Т	Т	F	21	1 15
S15	F	F	F	F	F	F	F	F	Т	F	F	F	T	T	T	F	T	T	T	T	F	T	T	F	F	F	T	F	F	F	F	F	T	F	T	F	13	3 23
S16	F	Т	F	F	F	F	F	F	Т	F	F	F	T	Т	F	F	Т	Т	Т	F	F	Т	F	F	F	F	Т	F	F	F	F	F	Т	F	Т	F	11	1 25
S17	F	Т	F	F	F	F	Т	Т	Т	Т	F	Т	F	F	Т	Т	F	T	Т	F	F	Т	T	F	Т	F	T	F	F	Т	F	F	Т	F	F	F	16	6 20
S18	F	Т	F	F	F	F	Т	F	Т	F	T	F	Т	Т	Т	Т	F	F	Т	F	F	Т	Т	F	F	F	Т	F	F	F	F	F	F	F	Т	F	13	3 23
S19	Т	Т	Т	T	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	T	Т	Т	Т	Т	Т	Т	Т	Т	F	3!	5 1
S20	Т	Т	T	Т	F	F	F	Т	Т	T	Т	Т	Т	Т	Т	Т	F	F	Т	F	F	Т	Т	F	F	F	T	F	F	T	F	Т	Т	T	F	F	21	1 15
S21	Т	Т	Т	Т	Т	Т	F	Т	F	Т	F	Т	F	F	F	F	F	F	F	Т	Т	F	F	Т	Т	Т	F	Т	Т	Т	Т	F	F	Т	Т	F	20	0 16
S22	F	Т	Т	F	F	F	Т	F	Т	F	F	Т	Т	F	Т	Т	Т	Т	Т	F	F	F	Т	F	F	F	Т	F	F	Т	F	F	F	F	F	F	14	4 22
S23	F	F	Т	T	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	T	F	F	F	F	F	F	Т	Т	Т	F	F	F	F	F	F	6	30
S24	Т	F	Т	T	F	F	F	F	F	Т	F	F	Т	F	F	F	F	F	F	Т	F	F	F	F	Т	F	F	F	F	Т	Т	F	F	F	F	F	9	
S25	F	F	Т	Т	Т	Т	F	F	F	F	Т	Т	F	F	Т	F	Т	F	Т	T	Т	Т	Т	Т	F	Т	F	Т	Т	Т	Т	Т	Т	Т	F	F	22	2 14
S26	Т	Т	Т	T	F	Т	Т	F	F	Т	F	F	T	F	F	F	F	F	F	F	T	F	T	Т	F	Т	F	Т	F	Т	F	F	F	F	F	F	14	4 22
S27	Т	F	F	F	Т	Т	Т	F	F	Т	F	F	F	F	F	F	F	F	F	Т	F	F	F	Т	Т	Т	F	Т	Т	F	Т	F	F	Т	F	F	13	3 23
S28	Т	Т	Т	Т	Т	Т	Т	Т	Т	T	Т	Т	Т	F	F	F	Т	T	F	T	Т	Т	Т	Т	Т	F	F	T	F	Т	F	Т	Т	Т	Т	F	27	7 9
S29	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	T	Т	Т	T	Т	Т	T	F	Т	T	Т	Т	Т	Т	Т	Т	T	Т	T	Т	Т	Т	Т	T	T	F	34	4 2
S30	Т	F	F	F	F	F	F	F	T	F	F	F	T	T	Т	F	T	T	T	F	F	T	T	F	T	F	T	F	F	T	F	Т	T	T	T	F	17	7 19
S31	F	F	F	Т	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	T	Т	F	F	F	F	F	F	F	F	T	Т	F	F	F	T	F	6	30
S32	Т	F	Т	T	Т	F	Т	Т	T	Т	F	T	Т	Т	Т	F	T	F	F	T	Т	Т	F	Т	Т	Т	Т	Т	F	Т	Т	Т	F	T	F	F	25	5 11
S33	Т	Т	T	T	T	T	T	T	T	T	T	T	T	T	F	T	T	F	T	F	T	T	T	T	T	F	T	F	T	T	T	T	T	T	T	F	30	0 6
S34	F	Т	Т	Т	T	T	T	Т	T	T	T	T	T	T	T	T	T	Т	T	T	Т	T	F	Т	T	Т	T	T	F	T	Т	F	Т	F	T	F	30	0 6
S35	T	F	Т	T	F	F	F	F	F	F	F	F	T	F	F	F	F	F	F	F	F	F	F	F	F	T	T	F	T	T	F	F	F	F	T	F	9	27
S36	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	0	36
Total																																						674 622
Т	24	18	22	24	19	18	18	17	20	20	14	17	22	17	20	14	19	14	19	21	20	21	20	19	19	17	22	18	15	25	19	17	21	21	23	0	674	
F	12	18	14	12	_	18	18	19	16	16	22	19	14	19	16	22	17	22	17	15	16	15	16	17		19		18	21			19	15	15	13	36	622	52
Carrage Archbards are								- 2011 6			/ /:					- (****						011		•	٠,	,		101										

Source: Author's own analysis based on the Azerbaijan and OECD Input Putput Tables, 2011, https://www.oecd.org/sti/ind/input-outputtables.htm / The State Statistical Committee of the Republic of Azerbaijan, 2011, https://www.stat.gov.az/source/system_nat_accounts/?lang=en

Azerbaijan Inverse Matrix vs Mean of LEONTIEF: Leontief inverse matrix (total) per selected countries, 2011, index

Sectors	S1		S3	S4	S5		S7	S8		S10	S11	S12	S13	S14	S15	S16	S17	S18	S19	S20	S21	S22	S23	S24	\$25	S26	S27	S28	529	530	S31	S32	S33	S34	S35	>0
S1	-2%		-91%	-94%	-39%	247%	-98%	-99%	-97%	454%	-98%	-95%	-98%	-90%	-97%	-98%	-94%	-85%	-95%	-95%	-86%	-97%	-98%	-84%	-74%	-94%	-97%	-84%	-93%	-92%	-39%	-90%	-92%	41%	200%	4.00
S2	-28%	-11%	-45%	-92%	-20%	-35%	-66%	-20%	-53%	-36%	-66%	-50%	-85%	-63%	-65%	-73%	-77%	-68%	-90%	-50%	-55%	-79%	-50%	-46%	-53%	-55%	-86%	-46%	-28%	0%	-38%	-81%	-88%	117%	-72%	1.00
S3	-64%	-94%	9%	-62%	0%	-43%	-58%	-67%	-91%	-94%	-61%	-73%	-17%	-39%	-40%	-42%	-60%	-92%	-88%	-73%	14%	-73%	-71%	8%	-50%	-13%	-66%	124%	87%	27%	1%	-23%	-60%	-26%	-45%	7.00
S4	-94%	-68%	208%	4%	-72%	-64%	-88%	-76%	-63%	-49%	-78%	134%	-93%	-77%	-39%	-81%	-88%	-77%	-79%	-70%	-74%	-52%	-65%	-65%	-79%	-67%	-87%	-53%	-19%	-43%	-63%	-59%	-80%	56%	-72%	4.00
S5	-72%	-88%	-71%	-87%	6%	-92%	-99%	-96%	-94%	-98%	-95%	-90%	-96%	-97%	-95%	-97%	-87%	-49%	-98%	-78%	-81%	-92%	-94%	-61%	-53%	-76%	-95%	-58%	-83%	-78%	-34%	-87%	-89%	-32%	-46%	1.00
S6	-66%	-90%	-70%	-83%	-22%	5%	-98%	-96%	-85%	339%	-97%	-76%	-80%	-23%	-93%	-95%	-84%	-93%	-79%	-97%	-46%	-96%	-97%	-70%	-88%	-96%	-94%	-73%	-87%	-75%	110%	-93%	-97%	-19%	-81%	3.00
S7	-33%	-64%	-42%	198%	13%	-37%	41%	-59%	-46%	-25%	79%	-57%	-64%	-73%	-21%	-72%	-47%	-79%	-56%	59%	56%	-19%	-66%	90%	24%	30%	-69%	19%	300%	-62%	206%	91%	9%	36%	-6%	15.00
S8	-23%	-96%	-50%	-60%	491%	58%	-56%	9%	-93%	-86%	-82%	-74%	-90%	-66%	-85%	-86%	-82%	-91%	-90%	-40%	-43%	-80%	-85%	297%	-67%	-11%	-84%	-12%	173%	-51%	53%	-45%	-41%	20%	-43%	7.00
S9	50%	-91%	6%	-31%	37%	18%	-30%	0%	5%	77%	-27%	-20%	-65%	-1%	-28%	-55%	-37%	-1%	-78%	-4%	33%	-38%	66%	7%	8%	-11%	-65%	7%	-11%	292%	27%	-55%	-68%	638%	-44%	14.00
S10	-49%	-94%	-19%	-14%	-19%	-27%	-42%	-57%	-91%	-2%	-67%	-13%	-19%	47%	-14%	-53%	-22%	170%	-84%	25%	0%	-61%	-78%	-32%	-60%	-57%	-80%	-7%	-13%	52%	101%	-43%	-82%	65%	-62%	6.00
S11	-12%	-85%	-20%	3%	701%	339%	490%	1317%	-78%	52%	35%	79%	-18%	77%	-10%	-59%	-73%	-82%	-1%	607%	160%	-14%	-53%	9%	-18%	177%	-24%	105%	337%	142%	146%	29%	-8%	22%	29%	20.00
S12	183%	-84%	564%	46%	1245%	55%	-43%	126%	-62%	10%	80%	10%	9%	-26%	306%	-10%	-55%	-78%	172%	13%	177%	-39%	-47%	31%	16%	127%	-42%	156%	180%	41%	74%	86%	-25%	49%	59%	24.00
S13	14%	-91%	2%	18%	26%	28%	8%	-36%	-68%	-36%	20%	-37%	-13%	-35%	-3%	-18%	-48%	-91%	-89%	-65%	153%	-35%	-31%	95%	-2%	59%	-51%	365%	186%	371%	65%	60%	-30%	32%	-5%	16.00
S14	-29%	-95%	-59%	-49%	-50%	-58%	-71%	-64%	-90%	-49%	-61%	-69%	-92%	-9%	-37%	-62%	-35%	-83%	-21%	-64%	-11%	-78%	-60%	-6%	-74%	-38%	-53%	36%	-7%	3%	36%	-40%	-63%	-42%	-58%	3.00
S15	157%	-89%	181%	150%	395%	272%	334%	268%	-37%	114%	230%	133%	-8%	-5%	6%	341%	-6%	-70%	-74%	9%	271%	11%	82%	450%	290%	837%	-30%	107%	386%	8824%	276%	153%	22%	287%	85%	27.00
S16	677%	-82%	489%	382%	725%	610%	1242%	494%	-9%	272%	405%	425%	6%	65%	174%	56%	53%	2%	-66%	408%	334%	0%	611%	931%	352%	698%	19%	2924%	1554%	6594%	534%	311%	44%	352%	92%	32.00
S17	95%	-90%	283%	299%	154%	231%	-41%	17%	-77%	14%	101%	62%	-85%	94%	-23%	-44%	-5%	-54%	29%	116%	374%	1%	-37%	914%	57%	121%	4%	1237%	554%	90%	129%	613%	43%	154%	189%	26.00
S18	449%	-79%	540%	383%	359%	309%	-11%	357%	-24%	135%	72%	275%	8%	81%	8%	-38%	1842%	-16%	-44%	100%	556%	69%	38%	405%	208%	171%	2%	590%	409%	815%	968%	248%	105%	1706%	112%	29.00
S19	2%	-97%	17%	-23%	-38%	99%	80%	84%	-82%	-33%	-59%	-5%	-41%	-73%	-69%	-89%	-10%	-49%	-16%	-5%	47%	-64%	124%	31%	-42%	-44%	-50%	-25%	124%	-37%	-72%	-86%	-55%	9%	-63%	10.00
S20	-11%	-87%	80%	24%	178%	102%	522%	7%	-76%	19%	-52%	-58%	-68%	33%	-15%	-50%	161%	1339%	-34%	12%	148%	-47%	-23%	184%	83%	197%	-76%	109%	356%	-8%	462%	27%	-9%	3%	242%	21.00
S21	7%	-98%	-56%	-84%	28%	-42%	-66%	-4%	-90%	-60%	-70%	-50%	-79%	-69%	-74%	-67%	-82%	-90%	-81%	-51%	-2%	-79%	-91%	-55%	-51%	-58%	-90%	-57%	4%	-61%	-35%	-86%	-89%	-17%	-49%	3.00
S22	246%	-66%	-48%	197%	195%	223%	14%	204%	78%	205%	148%	-3%	-38%	225%	-12%	28%	41%	7%	-40%	94%	843%	11%	59%	183%	336%	107%	-23%	300%	630%	-23%	240%	388%	204%	552%	326%	27.00
S23	-65%	-98%	1%	-56%	-43%	-59%	-86%	-75%	-83%	-61%	-80%	-69%	-62%	-74%	-82%	-78%	100%	-91%	-88%	-48%	-18%	-84%	-7%	-32%	-66%	-85%	-95%	-15%	-69%	-56%	-76%	-64%	-88%	-56%	-79%	2.00
S24	9%	-96%	20%	-32%	47%	50%	-79%	-44%	-75%	-9%	-66%	-62%	-40%	-66%	-72%	-60%	-78%	-85%	-90%	-26%	32%	-69%	-88%	-7%	-23%	-74%	-91%	-68%	-67%	-17%	-43%	-84%	-89%	36%	-53%	6.00
S25	112%	-96%	-19%	-58%	12%	19%	-77%	-62%	-80%	-78%	-43%	-22%	-85%	-88%	-67%	-80%	-71%	-87%	-92%	49%	-29%	-60%	-59%	-40%	4%	-66%	-76%	21%	-56%	-51%	42%	-46%	-47%	-67%	417%	8.00
S26	-93%	-100%	-97%	-95%	-95%	-86%	-74%	-98%	-99%	-53%	-98%	-97%	-97%	-98%	-98%	-95%	-98%	-99%	-99%	-94%	-30%	-95%	-99%	-22%	-91%	-3%	-99%	-95%	-90%	-88%	-87%	-84%	-96%	-85%	-94%	0.00
S27	-55%	-97%	-82%	-81%	-47%	-57%	-15%	-76%	-91%	-51%	-73%	-74%	-88%	-67%	-89%	-70%	-77%	-94%	-94%	-48%	-70%	-85%	-68%	-61%	20%	-39%	-12%	-13%	-46%	129%	-56%	-81%	-82%	-73%	-76%	2.00
S28	-84%	-97%	-84%	-77%	-59%	-77%	-84%	-86%	-94%	-68%	-82%	-88%	-94%	-91%	-93%	-86%	-86%	-87%	-96%	-74%	-74%	-83%	-78%	19%	-40%	107%	-87%	2%	135%	46%	203%	-62%	-79%	-85%	-80%	6.00
S29	-90%	-99%	-87%	-94%	-52%	-45%	-87%	-65%	-96%	-82%	-71%	-67%	-96%	-95%	-95%	-96%	-75%	-94%	-96%	-79%	-92%	-89%	-72%	-88%	-84%	-89%	-88%	-83%	-38%	-96%	-47%	-58%	-93%	-79%	-93%	0.00
S30	50%	-89%	136%	270%	196%	187%	299%	268%	-60%	142%	335%	76%	-22%	-38%	24%	573%	23%	-54%	-5%	126%	235%	14%	-19%	133%	-18%	61%	-69%	108%	228%	1%	90%	68%	-55%	43%	-16%	24.00
S31	-83%	-99%	-85%	-66%	-63%	-83%	-92%	-88%	-95%	-92%	-94%	-91%	-96%	-92%	-91%	-93%	-85%	-70%	-98%	-15%	-60%	-74%	-82%	-61%	-88%	-73%	-78%	-65%	-81%	-59%	-5%	-81%	-94%	-77%	-48%	0.00
S32	-64%	-93%	-73%	-65%	-17%	90%	-67%	5%	-86%	-64%	155%	-61%	-84%	-71%	-30%	-75%	-42%	-90%	-87%	-27%	-18%	-49%	-86%	-24%	-42%	-48%	-75%	-49%	109%	-78%	-11%	0%	272%	-65%	118%	6.00
S33	-75%	-98%	-59%	32%	-53%	-57%	-80%	-79%	-80%	-80%	-85%	-81%	-82%	-68%	-85%	-87%	-14%	184%	-84%	206%	-57%	-38%	-85%	4%	-79%	-75%	-46%	-62%	-b%	-75%	-08%	65%	0%	75%	-81%	7.00
S34 S35	-87% -100%	-99% -97%	-94% -97%	-94% -80%	-89% -88%	-92%	-98% nov	-97%	-97% 07%	-98% 0E%	-95% -95%	-90%	-96% -99%	-98% -99%	-93%	-97% 00%	-98% new	-99% -99%	-79%	-91%	-93%	-98% -98%	-98% new	-89% -82%	-96% -93%	-55%	-93% -50%	-94% 970/	-96% -51%	-95% -95%	-85% -71%	-96% -91%	-70% -94%	-6% -92%	-74% 1%	0.00 1.00
>0						10.00	-98%	12.00	-9/%	-95% 12.00		94%			-99%	-99%	-90%		2.00	12.00	15.00		-90%					16.00							12.00	1.00
>0	13.00	0.00	14.00	13.00	17.00	18.00	9.00	12.00	2.00	12.00	11.00	8.00	3.00	7.00	5.00	4.00	6.00	5.00	2.00	13.00	15.00	6.00	6.00	17.00	11.00	12.00	3.00	16.00	17.00	14.00	19.00	12.00	8.00	20.00	12.00	