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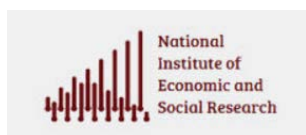
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Constructing estimates for exports, imports and the value-added from exports of the car industry and other manufacturing industries in the UK

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Abstract

This technical paper outlines a methodology for constructing estimates of the value-added from exports by 4-digit SIC sub-industries within the UK car manufacturing industry while further extending the analysis to all 4-digit SIC sub-industries belonging to the manufacturing sector. More specifically, our estimates provide a measure of the direct domestic value-added component of exports, i.e., the difference between the value of exports and the expenditure on intermediates used to produce the exported goods. Currently, published estimates on the value-added of UK trade are only available for the car industry as a whole. Our estimates are available at a yearly frequency from 2012-2015.

This methodology has been developed through collaboration between the Economic Statistics Centre of Excellence (ESCoE), the ONS and HMRC. The ESCoE aggregate estimates are constructed using individual business data held by HMRC. These methods enable the value-added and exporting profile of each firm to be considered and so better estimates to be constructed than would have been the case if only aggregated data was used.

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ESCoE estimates suggest that at least that £3.93bn of UK car industry exports was value-added generated directly by the firms immediately prior before exporting. The 4 sub-industries comprising the UK car industry we analyse differ substantially in terms of their import and export intensities and our study provides a detailed picture of direct domestic value-added and direct domestic value-added content of exports from such subindustries. Furthermore, we also provides a way of measuring direct imports and exports, both within and outside the EU28, for subindustries belonging to the car industry thus allowing to gain better insights into the importance of global value chains for specific subindustries. Finally, we extend the above methodology and analysis to all 4-digit SIC sub-industries belonging to manufacturing sector while providing detailed results.

These estimates form part of a wider project conducted by ESCoE, whose aim is to construct more highly disaggregated measures of value-added from trade for key sectors.

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1. Aim

The aim of this technical paper is to outline a methodology for constructing estimates of the value-added from exports of the car industry (manufacture of motor vehicles, trailers and semi-trailers; SIC code 29) in the UK. More specifically, we aim at providing a more detailed sub-industry breakdown, 4-digit SIC industry codes within the car industry, than what currently available from other sources. The main reason why we focus here on the car industry is that such industry accounts for a substantial amount of sales and value added in the UK economy (£50.5bn worth of sales out of which £13.6bn represent direct value added; data refers to 2014) while being highly involved in exports (at least 30% of output is exported) as well as imports. Once developed our methodology, we subsequently extend the analysis to all 4-digit SIC sub-industries belonging to the manufacturing sector.

Our work complements existing ONS data sources in different ways. By building on existing firm-level data, our analyses allow measuring very precisely Direct Domestic Value Added (the key component of value added from exports) at a fine industry level with minimum time lags required so providing timely and valuable insights into the importance of foreign demand for the output of specific industries while further breaking this down into EU28 and extra-EU28 demand. Our analysis is also easily replicable and is based on existing datasets that have been extensively used and cross-checked by both the data producers and various researchers.

We also contribute to existing data and studies by looking at the degree of involvement in global value chains of specific 4-digit SIC industries as measured by the importance of direct imports and direct exports, i.e., imports and exports directly operated by firms in the industry.³ This paper forms part of a wider project conducted by ESCoE (Project 2.4), whose aim is to construct more highly disaggregated measures of value-added from trade for key sectors. The project's purpose is to construct a more detailed evidence base for setting priorities in negotiating future trade deals with the EU and with third countries, as well as helping to better forecast the impact of EU withdrawal on the UK economy. In what follows we borrow some of the terminology and examples used in report produced by ESCoE colleagues, within the same project 2.4, on monetary financial institutions (Pilkington and Rowe, 2017).

Conventional export statistics measure gross flows but the value of these gross exports does not equal the value added generated in the exporting economy and its components such as profits and wages, with implications for employment. For example, an exported good may use inputs from other domestic industries, which in turn require significant levels of imports as inputs in their production. Therefore much of the value-added or revenue from selling the exported good may accrue outside of the exporting country, reflecting the purchases of intermediate imports, and leaving only marginal benefits in the exporting country. Given the increasingly global nature of supply-chains and production networks, increasing interest is being paid to estimates showing where the value-added of gross exports accrue.

UK production by industry i is either consumed within the UK or exported. Both the domestic and export components of production can then be split into four categories depending on where the value-added is generated. In the case of UK exports from industry i they split into:

³ A UK car manufacturer importing tailored components and intermediates from a German supplier is an example of direct imports. This is in contrast to the case of indirect imports in which components and intermediates are, for example, bought by a UK car manufacturer from a UK wholesaler who has imported them from Germany. Direct exports and imports are more prevalent in the case of global value chains where components, intermediates and final goods are directly exported to and imported from firms that are part of a common global value chain.

- a. *Direct domestic value-added*: the value-added generated by the UK exporting industry *i* itself
- b. *Indirect domestic value-added*: the value-added originating from other, upstream, UK industries (different from industry *i*) that are incorporated in the exports of industry *i*.
- c. *Re-imported domestic value-added*: the value-added of any UK industry which has been exported for the production of intermediate goods or services abroad and subsequently embodied in UK imports used in the production of UK exports by industry *i*.
- d. *Foreign value-added*: the value-added accrued to other countries exporting goods and services to the UK which then form intermediate inputs for UK exports.

Components a to c above determine domestic value-added in UK exports while component d represents foreign value-added in UK exports. Some data are available on the different value-added components within exports of the UK car industry from the [Input Output tables](#) published by the Office for National Statistics (ONS) and the [Trade in Value Added \(TiVA\) dataset](#) developed by a joint OECD – WTO initiative. However, both of these datasets are available with a considerable time lag and neither contains estimates at a more granular level. In this respect, our analysis allows measuring one important component of domestic value added (Direct Domestic Value Added) in a very detailed and up to date way but lacks information on other two. We look forward to data collection improvements allowing for a more detailed account of input-output relationships and enabling further refinements our methodology.

In 2014 the car industry produced £50.5bn worth of output out of which £13.6bn represent direct value added from production (domestic plus export). The UK car industry roughly exports 30% of its production and attracts a substantial amount of indirect domestic value added coming from inputs acquired from other UK industries while being highly involved into global value chains. This shows that the car industry is an important sector to consider when studying the value added embedded in UK trade as well as the vulnerability of certain industries to changes in trade policy potentially disrupting delicate global production networks.

The car industry is very diverse containing sub-industries characterized by different export and import intensities as well as different value-added to output ratios. In this respect, the OECD-WTO TiVA dataset doesn't offer estimates of the domestic value-added content of exports within subsectors of the car industry. Furthermore, no systematic data allowing measuring the different degree of involvement in global value chains is available for such sub-industries.

This paper outlines a potential methodology (section 2) for constructing the first estimates of the direct domestic value-added and direct domestic value-added content of exports from subindustries (4-digit SIC codes) belonging to the car industry in the UK. The estimates should be seen as a lower bound for the overall domestic value-added (categories a, b and c above) and related overall domestic value-added content of gross exports. Indeed, as explained above, further value-added is generated via input and output linkages with other sectors of the economy. Furthermore, this paper also provides a way of measuring direct imports and exports for subindustries belonging to the car industry thus allowing to gain better insights into the importance of global value chains for specific subindustries and ultimately their sensitiveness/vulnerability to changes in UK and foreign trade policy and/or investment strategies.

The methodology uses several datasets made available by HMRC that also represent source data for official ONS trade and value-added figures. We describe our data in Section 3 and compare it with some other currently published data. In section 4 the paper provides estimates of the direct domestic value-added and direct domestic value-added content of exports related to 4-digit subindustries within the car industry. Furthermore, estimates of the import and export intensities of each

subindustry are also reported. In Section 5 we then extend the analysis to all 4-digit SIC sub-industries belonging to manufacturing sector. The final section details the next steps of the project and concludes.

2. Methodology and assumptions

Gross value-added (GVA) for each industry is a key concept in the National Accounts and it corresponds to what we refer above as direct value-added. It is calculated for each firm or industry as:

$$\text{Gross value added} = \text{Output} - \text{Intermediate consumption} \quad (\text{Eqn 1})$$

GVA is the difference between the value of what a firm produces (output) and the value of goods and services consumed as inputs to the process of production (intermediate consumption). GVA is therefore a measure of the value of goods and services generated within a firm or industry. The inputs to the process of production for one industry (intermediate consumption) will contain the GVA of another industry and so GVA can be summed across all domestic industries to estimate the total output of the domestic economy.

GVA can be constructed for each firm and then summed together to calculate an aggregate GVA for the industry as a whole. **Table 1** shows an example of this using hypothetical data for three firms.

Table 1 - Individual institution GVA

	1	2	1 -2
	Total		
	Total Output	Intermediate consumption	Total GVA
Firm 1	100	40	60
Firm 2	100	20	80
Firm 3	100	75	25
Sum across Firms	300	135	165

The direct domestic value-added of exports is the value-added component of exports generated by the UK exporters. Therefore it is the same concept as GVA but applied to exports. It is calculated for each firm or industry as:

$$\text{Direct domestic value added of exports} = \text{Exports} - \text{Intermediate consumption associated with exports} \quad (\text{Eqn 2})$$

Again, direct domestic value-added (DDVA) can be constructed for each firm and then summed to calculate aggregate DDVA for the sector as a whole. **Table 2** extends the three firms hypothetical example to show calculation of DDVA in exports.

Table 2 - Individual institution DDVA in exports

	1	2	1-2	3	4	3-4
	Total Output	Total Intermediate consumption	Total GVA	Exports	Intermediate consumption associated with exports	DDVA in exports
Firm 1	100	40	60	20	8	12
Firm 2	100	20	80	60	12	48
Firm 3	100	75	25	0	0	0
Sum across Firms	300	135	165	80	20	60

Exports are a component of total output and the intermediation consumption associated with these exports is a component of total intermediate consumption. Again, the inputs to the process of producing an export for exporters will comprise the value-added of other industries. Therefore, as explained in Section 1, exports of any industry can be decomposed into various sources of value-added.

In our study we focus on GVA and DDVA for the various 4-digit subindustries comprising the car industry. Therefore, we do not consider the other two components of domestic value added embedded into exports (*Indirect domestic value-added* and *re-imported domestic value-added*). Furthermore, a level of detail comparable to Table 2 is not available in standard data and our study is no exception to this. More precisely, with the ideal data provided in Table 2 one can precisely assign intermediate consumption to domestic production and exports. Our data only provides information on total intermediate consumption, output and exports (and imports). Therefore we need a rule to assign inputs to exports at the firm-level. Such rule is provided below:

$$\text{Intermediate consumption associated with exports} = \text{Exports} \times \left(\frac{\text{Total intermediate consumption}}{\text{Total output}} \right) \quad (\text{Eqn 3})$$

I.e. the assumption is that the proportion of intermediate consumption used by the firm to produce its average unit of output (Total Intermediate consumption/Total output) is the same regardless of whether that unit of output is produced for the domestic market or exported to any destination.

By reconstructing aggregates starting from firm-level data we account for the products each firm specialises in and the extent to which it exports, ultimately resulting in a more accurate reflection of true activity. However it does remain true that different inputs are likely to be needed to produce products for the domestic and export markets. Whilst this compromises the accuracy of our estimates, it does so less than if the calculation was to simply use sector aggregates.

3. Data and comparison with official sources

The data we use has been made available by HMRC and broadly consists of 3 elements. The first piece of data is the VAT panel dataset containing information gathered from VAT returns. The data is available for the period 2011-2015 on an annual basis (fiscal year) and in a typical year there are about 2.3 million businesses in the dataset. The data basically covers the entire UK non-financial population of businesses with a turnover of about £80k and above. The VAT panel dataset provides information on output and intermediates as well as the main industry (5-digit SIC) of the business. Data is organised around the fiscal year and, for the purpose of this study, we have transformed it to match the calendar year. More specifically we have, for each firm, divided total annual output and intermediates by 12 and assigned 9 parts to the calendar year spanning 9 months of a particular fiscal year and 3 parts to the following calendar year. To be concrete, to construct the output of a firm in 2012 we use 9/12 of the output of the firm in the fiscal year 2012/13 and 3/12 of the output of the same firm in the fiscal year 2011/12. The reasons why we operate this transformation from fiscal to calendar year are twofold. First, we need to compare our data with official statistics that are typically available on a calendar year basis. Second, we need to match the VAT panel to a second key dataset that is constructed around the calendar year that we describe next.

The second piece of data we use is the Exports and Imports panel dataset providing detailed micro data on trade in goods. To be more precise, we use both the EU Exports and Imports panel dataset (gathered from Intra-stat exports and imports declarations) and the extra-EU Exports and Imports panel dataset (gathered from Extra-stat exports and imports declarations). The two panel datasets use the same business identifier and provide business-level information on exports and imports by product (CN 8-digit nomenclature), country, and calendar month. For the purpose of this study we have aggregated the data at the calendar year level and focused on 2012-2015. We have also aggregated the product and country dimensions, while distinguishing between EU28 and non-EU28 countries, and got rid of classified trade transactions as well as transactions not involving a transfer of ownership. This ultimately provides us with business-level imports and exports at the year level for 2012-2015 that are further broken down by EU28 and non-EU28 countries.

The final data we use is a lookup Table produced by HMRC allowing to match the identifiers of the VAT and Trade datasets. The match is a one (VAT id) to many (Trade id) and allows matching roughly 92% (95%) of aggregate UK goods exports (imports) value over the period 2012-2015. The unmatched portion of trade refers to firms that do not have a high enough turnover to require a VAT number.

We finally aggregate business-level variables at the 4-digit SIC level to obtain a dataset allowing to measure, for each 4-digit industry in a given year, the following variables:

- Number of businesses
- Output
- Intermediates
- GVA= Output-Intermediates
- Exports, Exports to EU28, Exports to non-EU28
- Imports, Imports from EU28, Imports from non-EU28
- DDVA= GVA* Exports/ Output

Furthermore, the data allows constructing two complementary measures of involvement in global value chains:

- $\text{Export intensity} = \text{Exports} / \text{Output}$
- $\text{Import intensity} = \text{Imports} / \text{Intermediates}$

In this respect we expect an industry highly involved in global value chains to score high in terms of both export and import intensity.

Last but not least the data we constructed matches relatively well with aggregate GVA figures for the car industry provided in official statistics. As mentioned above, [Input Output tables](#) for the year 2014 indicate a direct value added of £13.6bn for the car industry in the UK. This compares to an overall £11.8bn figure coming from our micro data (86.6% of the official figure).

Table 3 –Estimates of GVA and DDVA in exports for the car industry

SIC code	Year	N firms	Output	Inputs	GVA	EU exports	non-EU exports	EU imports	non-EU imports	Export Intensity	Import Intensity	DDVA
2910	2012	462	52,210.1	45,423.7	6,786.4	5,834.1	3,462.9	13,365.3	4,448.2	0.178	0.392	1208.5
2910	2013	493	58,112.4	50,176.5	7,936.0	6,974.3	11,161.7	14,552.8	4,755.6	0.312	0.385	2476.7
2910	2014	511	61,986.4	53,053.0	8,933.4	8,344.1	14,343.0	16,587.4	4,546.7	0.366	0.398	3269.6
2910	2015	548	64,988.9	55,593.2	9,395.7	8,641.3	14,228.6	16,274.8	4,782.2	0.352	0.379	3306.4
2920	2012	632	2,254.6	1,822.4	432.2	73.5	62.2	213.6	18.2	0.060	0.127	26.0
2920	2013	649	2,256.5	1,772.3	484.2	78.8	52.3	220.3	21.3	0.058	0.136	28.1
2920	2014	675	2,513.7	1,978.4	535.3	86.4	63.8	239.9	18.8	0.060	0.131	32.0
2920	2015	693	4,891.9	2,442.8	2,449.1	90.6	63.6	261.0	26.6	0.032	0.118	77.2
2931	2012	196	1,119.4	950.7	168.7	360.9	113.9	287.4	99.9	0.424	0.407	71.5
2931	2013	199	1,118.5	938.7	179.8	382.6	107.3	382.2	95.7	0.438	0.509	78.7
2931	2014	210	1,209.3	1,023.5	185.7	351.0	83.2	381.6	95.5	0.359	0.466	66.7
2931	2015	221	1,269.9	1,049.4	220.5	373.2	89.4	379.5	110.7	0.364	0.467	80.3
2932	2012	1,100	11,390.9	9,530.5	1,860.5	1,609.4	457.9	2,516.0	1,106.4	0.181	0.380	337.7
2932	2013	1,112	11,889.1	9,645.7	2,243.4	1,638.5	376.1	2,652.6	1,064.1	0.169	0.385	380.1
2932	2014	1,125	11,996.1	9,843.2	2,152.9	1,582.0	435.2	2,631.7	1,043.2	0.168	0.373	362.0
2932	2015	1,185	12,584.6	10,202.9	2,381.8	1,843.7	618.5	2,657.9	1,188.7	0.196	0.377	466.0

Value are in million pounds

4. Estimates for the car industry

In what follows we provide our estimates. Table 3 provides our estimates of GVA and DDVA in exports for the 4 sub-industries comprising the UK car industry over the period 2012-2015. Column 1 reports the 4-digit SIC code while column 2 indicates year and column 3 contains the number of firms. Columns 4, 5 and 6 report the total value of output, inputs and GVA (columns 6 being the difference between column 4 and 5). Columns 7 to 10 provide a breakdown of industry-level exports and imports with the EU28 as well as with other countries (non-EU) while columns 11 and 12 report the ratio of exports to output (export intensity) and the ratio of imports to inputs (import intensity) respectively. Finally our estimates of DDVA are contained in column 13.

As can be appreciated, the 4 sub-industries comprising the UK car industry differ substantially in terms of their import and export intensities. The sub-industry that is involved the least in imports and exports (a signal of low involvement in global value chains) is SIC code 2920 (*“Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers”*). The other 3 sub-industries are more or less equally reliant on foreign inputs (import intensity) with SIC code 2931 (*“Manufacture of electrical and electronic equipment for motor vehicles”*) being somewhat more reliant. On the export intensity side SIC code 2931 is again the one with the highest involvement followed by SIC code 2910 (*“Manufacture of motor vehicles”*) and SIC code 2932 (*“Manufacture of other parts and accessories for motor vehicles”*).

In terms of sheer size, GVA and DDVA figures provided in columns 6 and 13 show that SIC code 2910 (*“Manufacture of motor vehicles”*) accounts for the lion share followed by SIC code 2932 (*“Manufacture of other parts and accessories for motor vehicles”*). Regarding the former, Table 3 also shows the strong increase in export intensity that this sub-industry has experienced since 2012. As for as trade patterns within and outside the EU28 are concerned (columns 7 to 10), an interesting feature of the data for SIC 2032 is that exports to non-EU countries have tremendously increased over time and, as of 2015, account for more than 60% of overall exports. On the other hand, most imported inputs of this industry come from EU28 countries (77.4%) as part of the global car industry value chain of which the UK is the final end.

Overall, as of 2015, £3.93bn of UK car industry exports correspond to DDVA and represent 27.2% of the GVA related to the industry (£14.45bn), 15.1% of gross industry exports (£25.97bn) and 4.7% of gross industry output (£83.74bn).

5. Extending the analysis to the whole manufacturing

We extend here the analysis to 4-digit SIC sub-industries belonging to the manufacturing sector. Detailed results are reported in Table 4 from which a few 4-digit SIC codes have been removed for non-disclosure constraints. We also provide in the Appendix a complete list of 4-digit SIC industry codes along with a description of each industry.

Table 4 is very rich and detailed and in what follows we focus on some key aspects only. Besides the already analysed SIC code 2910 (*“Manufacture of motor vehicles”*), the other top 5 industries in terms of total DDVA as of 2015 are SIC codes 3030 (*“Manufacture of air and spacecraft and related machinery”*) with £6.95bn worth of DDVA, code 2120 (*“Manufacture of pharmaceutical*

preparations) with £1.65bn, code 2110 (*Manufacture of basic pharmaceutical products*) with £1.39bn and code 2651 (*Manufacture of instruments and appliances for measuring, testing and navigation*) with £1.08bn. Interestingly, all of these industries rely on a large amount of imports, and very often EU28 imports, to source intermediate goods needed for production. Another interesting feature that can be reconstructed from Table 4 is the ranking of industries in terms of overall import intensity, i.e., overall reliance on foreign inputs. The top 5 industries in this ranking are 3316 (*Repair and maintenance of aircraft and spacecraft*), 2720 (*Manufacture of batteries and accumulators*), 2830 (*Manufacture of agricultural and forestry machinery*), 2020 (*Manufacture of pesticides and other agrochemical products*) and 2444 (*Copper production*). When considering a similar ranking based on the ratio between EU28 imports and inputs the top 5 industries, i.e., those that are in a way more likely to be disrupted on the inputs side by Brexit, are 2830 (*Manufacture of agricultural and forestry machinery*), 2020 (*Manufacture of pesticides and other agrochemical products*), 2444 (*Copper production*), 2931 (*Manufacture of electrical and electronic equipment for motor vehicles*) and 2732 (*Manufacture of other electronic and electric wires and cables*). On the other hand the 5 industries with the highest ratio between exports to the EU28 and output, i.e., those that are in a way more likely to be disrupted on the demand side by Brexit, are 2931 (*Manufacture of electrical and electronic equipment for motor vehicles*), 2053 (*Manufacture of essential oils*), 2815 (*Manufacture of bearings, gears, gearing and driving elements*), 2012 (*Manufacture of dyes and pigments*) and 2442 (*Manufacture of ceramic sanitary fixtures*).

Table 4 –Estimates of GVA and DDVA in exports for all manufacturing

SIC code	Year	N firms	Output	Inputs	GVA	EU exports	non-EU exports	EU imports	non-EU imports	Export Intensity	Import Intensity	DDVA
1011	2012	348	4,034.3	3,312.8	721.5	451.2	63.3	298.1	15.0	0.128	0.095	92.02
1011	2013	348	3,995.3	3,547.0	448.3	459.5	64.9	300.9	13.7	0.131	0.089	58.83
1011	2014	345	3,852.6	3,385.9	466.7	469.2	46.0	264.7	20.7	0.134	0.084	62.40
1011	2015	343	4,033.1	3,182.0	851.1	367.7	36.4	254.6	18.2	0.100	0.086	85.27
1012	2012	87	3,077.4	2,582.6	494.8	113.8	6.6	228.2	28.4	0.039	0.099	19.36
1012	2013	95	3,659.9	3,200.8	459.1	145.7	13.2	185.1	16.2	0.043	0.063	19.94
1012	2014	99	2,434.3	2,329.2	105.0	176.8	18.7	182.3	30.5	0.080	0.091	8.43
1012	2015	99	2,488.7	2,230.4	258.3	181.2	6.8	141.2	56.3	0.076	0.089	19.51
1013	2012	562	8,809.8	7,246.2	1,563.6	310.7	14.8	1,244.4	35.9	0.037	0.177	57.76
1013	2013	568	9,095.0	7,609.6	1,485.4	355.3	16.1	1,290.5	35.5	0.041	0.174	60.66
1013	2014	565	9,548.4	7,862.6	1,685.9	364.8	14.4	1,180.5	34.3	0.040	0.154	66.95
1013	2015	558	9,682.9	7,729.0	1,953.8	300.5	28.9	1,045.9	25.9	0.034	0.139	66.48
1020	2012	304	2,235.0	2,180.8	54.2	250.8	116.4	186.6	177.1	0.164	0.167	8.90
1020	2013	299	2,330.5	2,109.7	220.8	230.1	111.0	189.4	153.2	0.146	0.162	32.30
1020	2014	290	2,260.0	1,910.6	349.4	232.3	128.8	172.7	152.3	0.160	0.170	55.82
1020	2015	277	2,048.4	1,679.5	368.9	204.0	78.8	138.6	122.3	0.138	0.155	50.94
1031	2012	55	2,724.0	2,113.2	610.8	71.1	25.1	47.4	19.9	0.035	0.032	21.58
1031	2013	59	2,804.1	2,168.8	635.3	71.4	26.9	70.7	17.9	0.035	0.041	22.28
1031	2014	61	2,736.1	2,174.4	561.6	54.1	22.1	48.7	16.9	0.028	0.030	15.66
1031	2015	60	2,712.3	2,210.5	501.8	57.4	24.9	40.3	21.5	0.030	0.028	15.23
1032	2012	52	525.4	409.1	116.3	6.4	0.5	72.9	14.0	0.013	0.212	1.54
1032	2013	57	347.9	279.1	68.8	4.6	1.0	43.7	14.0	0.016	0.207	1.11
1032	2014	58	148.7	126.8	21.9	1.9	0.6	7.0	4.3	0.017	0.089	0.37
1032	2015	70	117.7	100.7	17.0	2.2	1.0	7.6	4.3	0.027	0.117	0.45
1039	2012	488	4,151.3	3,205.6	945.7	111.0	34.7	533.9	90.2	0.035	0.195	33.20
1039	2013	504	3,147.1	2,527.6	619.5	111.9	11.1	374.0	67.7	0.039	0.175	24.21
1039	2014	524	3,317.1	2,618.6	698.5	118.3	12.5	340.5	73.5	0.039	0.158	27.54
1039	2015	556	3,446.3	2,695.1	751.3	109.7	14.0	347.0	79.5	0.036	0.158	26.96
1041	2012	78	9,292.7	8,356.8	935.9	74.1	82.5	128.6	271.8	0.017	0.048	15.78
1041	2013	88	7,492.3	6,807.3	685.1	85.1	26.0	145.7	238.3	0.015	0.056	10.16

1041	2014	83	6,920.0	6,381.2	538.8	70.8	11.9	118.0	255.8	0.012	0.059	6.44
1041	2015	79	5,899.1	5,475.7	423.4	65.9	12.3	94.9	206.8	0.013	0.055	5.62
1052	2012	206	384.3	295.2	89.0	9.4	0.5	22.2	5.4	0.026	0.094	2.29
1052	2013	215	404.0	317.1	86.9	10.9	0.8	26.1	4.0	0.029	0.095	2.51
1052	2014	230	420.7	304.4	116.3	14.0	0.9	32.4	1.5	0.035	0.111	4.11
1052	2015	233	429.3	303.4	125.8	13.6	2.1	31.0	1.6	0.036	0.107	4.59
1061	2012	138	2,797.4	2,287.7	509.6	193.1	44.0	124.4	148.6	0.085	0.119	43.20
1061	2013	145	2,944.8	2,317.7	627.1	213.6	51.6	129.1	148.5	0.090	0.120	56.47
1061	2014	159	2,691.2	2,075.9	615.3	206.5	50.9	113.1	151.1	0.096	0.127	58.87
1061	2015	164	2,504.1	1,905.1	599.0	189.5	56.1	113.0	155.1	0.098	0.141	58.77
1071	2012	1,780	5,192.7	3,615.1	1,577.5	112.5	38.1	192.7	59.3	0.029	0.070	45.75
1071	2013	1,810	5,657.1	3,776.9	1,880.2	100.8	43.7	234.3	56.3	0.026	0.077	48.03
1071	2014	1,837	6,578.6	4,301.8	2,276.7	122.1	42.2	269.9	58.7	0.025	0.076	56.86
1071	2015	1,870	6,725.8	4,511.1	2,214.7	160.3	46.2	306.5	40.7	0.031	0.077	67.99
1072	2012	178	2,570.5	1,793.3	777.2	179.2	118.5	149.1	43.5	0.116	0.107	90.02
1072	2013	192	2,852.8	2,157.0	695.8	189.6	118.4	196.9	33.5	0.108	0.107	75.14
1072	2014	203	2,815.5	2,011.5	804.0	162.4	125.8	205.2	15.0	0.102	0.109	82.31
1072	2015	221	2,574.2	1,825.5	748.7	131.2	131.4	178.0	16.5	0.102	0.107	76.39
1073	2012	33	159.3	128.8	30.5	8.5	6.7	28.4	0.5	0.095	0.225	2.91
1073	2013	31	149.5	120.1	29.4	6.7	6.7	26.4	1.0	0.090	0.228	2.64
1073	2014	36	122.4	100.8	21.6	6.7	7.4	28.9	2.4	0.115	0.311	2.49
1073	2015	34	125.9	98.8	27.1	6.1	6.9	31.7	2.1	0.103	0.343	2.78
1082	2012	342	7,197.4	5,393.0	1,804.5	591.8	170.5	1,134.4	134.6	0.106	0.235	191.12
1082	2013	359	7,417.9	5,459.4	1,958.5	634.8	178.7	1,310.3	96.3	0.110	0.258	214.77
1082	2014	368	7,607.7	5,728.2	1,879.5	628.2	186.6	1,431.8	95.8	0.107	0.267	201.28
1082	2015	385	7,661.6	5,421.7	2,239.9	592.4	190.6	1,402.2	135.0	0.102	0.284	228.90
1083	2012	86	137.7	104.2	33.5	5.9	3.6	5.8	17.2	0.069	0.221	2.32
1083	2013	125	133.9	112.2	21.7	5.5	3.1	1.0	14.3	0.064	0.136	1.40
1083	2014	157	137.7	112.9	24.8	6.6	3.2	0.9	17.8	0.071	0.165	1.77
1083	2015	192	155.0	122.9	32.1	6.3	3.6	0.8	17.1	0.064	0.145	2.06
1084	2012	87	1,048.7	798.5	250.1	72.0	44.9	119.6	59.4	0.111	0.224	27.87
1084	2013	101	1,211.4	905.8	305.6	66.3	30.8	127.7	60.7	0.080	0.208	24.48
1084	2014	129	2,302.6	862.4	1,440.2	78.1	30.8	115.4	52.5	0.047	0.195	68.09
1084	2015	144	1,620.3	875.8	744.5	76.2	26.9	86.9	52.6	0.064	0.159	47.38
1086	2012	61	607.5	450.3	157.2	86.4	29.7	101.2	13.7	0.191	0.255	30.06

1086	2013	93	659.5	519.3	140.2	103.0	21.5	113.6	15.0	0.189	0.248	26.46
1086	2014	122	734.0	585.3	148.8	103.3	24.1	120.1	15.0	0.174	0.231	25.83
1086	2015	164	789.3	640.0	149.4	93.8	27.5	126.2	19.0	0.154	0.227	22.96
1089	2012	723	9,014.6	7,139.1	1,875.5	275.1	130.4	640.6	315.7	0.045	0.134	84.36
1089	2013	728	8,384.9	6,697.7	1,687.3	286.7	152.3	660.7	308.3	0.052	0.145	88.36
1089	2014	758	7,604.5	5,912.6	1,691.9	264.5	121.8	591.9	270.8	0.051	0.146	85.96
1089	2015	770	7,478.5	5,533.5	1,945.0	243.5	130.1	540.7	282.4	0.050	0.149	97.17
1091	2012	293	3,129.1	2,831.7	297.5	138.3	41.0	158.6	71.0	0.057	0.081	17.04
1091	2013	296	3,291.8	3,004.1	287.7	145.9	49.4	184.2	72.5	0.059	0.085	17.07
1091	2014	310	3,143.1	2,849.8	293.3	130.1	41.9	164.7	67.1	0.055	0.081	16.05
1091	2015	319	2,965.2	2,623.8	341.4	137.6	64.8	174.8	85.8	0.068	0.099	23.30
1092	2012	132	839.2	709.4	129.8	55.7	12.3	75.0	44.7	0.081	0.169	10.52
1092	2013	144	881.8	734.0	147.8	70.3	15.7	88.3	43.3	0.097	0.179	14.40
1092	2014	150	914.9	748.8	166.2	78.1	13.1	95.9	35.0	0.100	0.175	16.55
1092	2015	160	976.8	761.2	215.6	81.1	17.5	92.9	43.9	0.101	0.180	21.75
1101	2012	140	3,533.9	2,627.8	906.1	788.2	1,135.3	134.6	121.6	0.544	0.097	493.17
1101	2013	176	3,477.0	2,689.4	787.7	804.9	1,143.8	131.0	138.9	0.560	0.100	441.44
1101	2014	212	3,405.2	2,812.6	592.6	801.0	1,146.3	131.6	153.5	0.572	0.101	338.89
1101	2015	262	3,490.0	2,787.0	703.0	756.4	1,112.9	130.5	174.1	0.536	0.109	376.52
1102	2012	131	279.1	253.2	25.9	5.5	0.7	16.8	111.9	0.022	0.509	0.58
1102	2013	128	280.2	249.7	30.5	6.7	1.2	19.5	110.4	0.028	0.520	0.86
1102	2014	124	293.2	259.5	33.7	7.0	0.8	19.4	95.9	0.027	0.445	0.90
1102	2015	128	317.2	294.6	22.6	3.6	1.1	18.3	87.3	0.015	0.358	0.33
1103	2012	86	612.2	466.7	145.5	8.7	8.0	33.0	0.0	0.027	0.071	3.98
1103	2013	95	603.2	454.4	148.8	7.9	8.3	38.5	0.0	0.027	0.085	3.98
1103	2014	103	561.1	444.6	116.5	8.8	5.3	44.9	1.3	0.025	0.104	2.92
1103	2015	113	512.7	381.8	130.9	8.8	4.6	24.6	0.1	0.026	0.064	3.40
1105	2012	737	11,065.3	6,343.2	4,722.1	108.9	78.6	204.3	65.3	0.017	0.043	80.03
1105	2013	861	11,177.1	6,345.5	4,831.6	116.0	118.8	223.3	55.6	0.021	0.044	101.49
1105	2014	977	11,277.9	7,008.2	4,269.7	126.2	102.7	166.1	68.0	0.020	0.033	86.69
1105	2015	1,119	11,670.5	7,182.9	4,487.6	104.8	119.9	179.1	64.1	0.019	0.034	86.40
1107	2012	231	3,667.4	2,838.6	828.8	118.5	22.3	715.0	19.5	0.038	0.259	31.81
1107	2013	237	3,780.3	2,919.7	860.7	134.9	22.4	737.9	20.3	0.042	0.260	35.82
1107	2014	261	4,107.3	3,088.3	1,019.0	214.2	25.8	747.5	20.0	0.058	0.249	59.56
1107	2015	276	4,144.0	3,092.5	1,051.6	155.2	28.6	833.0	14.1	0.044	0.274	46.64

1310	2012	176	433.3	354.7	78.6	92.2	44.7	29.6	72.1	0.316	0.287	24.85
1310	2013	176	454.0	353.5	100.5	102.5	49.0	28.8	78.4	0.334	0.303	33.54
1310	2014	169	425.4	343.0	82.4	94.0	53.8	23.8	75.6	0.348	0.290	28.65
1310	2015	167	387.1	342.0	45.1	85.9	52.6	24.5	82.2	0.358	0.312	16.14
1320	2012	164	429.3	329.6	99.8	92.5	83.9	48.9	47.4	0.411	0.292	41.00
1320	2013	171	441.9	340.8	101.1	99.6	88.2	51.0	52.2	0.425	0.303	42.96
1320	2014	181	464.0	341.5	122.6	106.0	89.2	52.1	54.0	0.420	0.311	51.53
1320	2015	189	470.4	345.2	125.2	99.7	93.3	42.1	62.3	0.410	0.302	51.35
1330	2012	684	726.3	512.2	214.0	167.3	76.1	69.7	81.8	0.335	0.296	71.72
1330	2013	738	765.9	540.8	225.1	165.8	80.3	72.8	81.6	0.321	0.286	72.33
1330	2014	783	764.8	544.8	220.0	150.5	68.6	67.9	79.1	0.286	0.270	63.00
1330	2015	905	784.1	522.7	261.4	148.4	60.2	62.9	65.9	0.266	0.247	69.54
1391	2012	91	95.1	68.7	26.4	9.2	12.6	4.6	9.1	0.229	0.199	6.05
1391	2013	90	94.1	77.5	16.6	7.8	12.7	4.6	8.0	0.218	0.162	3.62
1391	2014	92	94.5	77.1	17.4	13.2	12.2	5.8	9.4	0.269	0.197	4.67
1391	2015	86	92.8	74.3	18.5	10.9	12.9	5.5	11.7	0.257	0.231	4.75
1393	2012	181	981.4	812.4	169.0	84.3	72.9	153.4	87.8	0.160	0.297	27.07
1393	2013	186	992.1	771.5	220.6	86.5	70.7	153.6	91.8	0.159	0.318	34.97
1393	2014	180	1,002.8	720.4	282.4	89.2	65.1	152.7	94.7	0.154	0.343	43.45
1393	2015	176	965.5	698.4	267.2	78.2	64.2	146.9	98.5	0.147	0.351	39.40
1394	2012	82	98.3	70.8	27.5	9.8	9.2	29.9	6.3	0.193	0.512	5.31
1394	2013	87	97.5	70.9	26.6	11.0	10.0	28.7	4.6	0.216	0.468	5.74
1394	2014	86	98.4	70.7	27.8	11.7	7.2	23.6	6.6	0.192	0.427	5.34
1394	2015	90	105.5	72.7	32.9	8.9	9.1	15.4	10.0	0.171	0.349	5.62
1396	2012	31	74.2	57.7	16.5	13.7	3.8	4.7	20.7	0.236	0.440	3.91
1396	2013	45	75.9	60.3	15.6	12.2	3.6	5.0	18.3	0.208	0.386	3.24
1396	2014	66	83.6	63.6	19.9	12.2	7.1	4.6	16.6	0.231	0.334	4.61
1396	2015	91	145.8	106.0	39.9	27.7	17.1	7.1	42.6	0.308	0.469	12.28
1399	2012	645	1,285.6	934.1	351.5	160.9	184.1	142.4	360.7	0.268	0.539	94.31
1399	2013	605	1,289.0	968.5	320.5	157.9	200.3	146.5	384.0	0.278	0.548	89.06
1399	2014	576	1,216.5	1,118.4	98.1	164.9	118.5	143.0	159.0	0.233	0.270	22.85
1399	2015	543	1,183.1	951.6	231.6	151.1	123.8	121.0	164.8	0.232	0.300	53.80
1411	2012	67	96.7	55.8	40.9	2.9	2.5	1.2	11.1	0.055	0.220	2.25
1411	2013	69	83.2	59.8	23.4	3.7	2.7	1.2	13.9	0.077	0.254	1.80
1411	2014	67	78.6	67.9	10.6	3.8	2.5	1.4	13.9	0.080	0.225	0.85

1411	2015	67	91.3	78.7	12.6	2.4	2.1	1.8	12.8	0.049	0.186	0.62
1412	2012	209	398.1	320.7	77.4	43.4	25.3	19.0	113.6	0.173	0.414	13.36
1412	2013	215	426.8	327.6	99.1	51.1	24.9	13.0	116.8	0.178	0.396	17.66
1412	2014	239	458.9	361.4	97.5	56.5	25.6	10.0	120.9	0.179	0.362	17.45
1412	2015	258	469.2	385.4	83.8	52.5	27.8	10.1	124.5	0.171	0.349	14.35
1413	2012	1,581	1,796.9	1,483.7	313.1	170.1	79.1	91.7	452.0	0.139	0.366	43.43
1413	2013	1,528	1,941.9	1,612.7	329.2	177.0	99.5	82.2	461.4	0.142	0.337	46.88
1413	2014	1,474	2,013.2	1,684.8	328.4	190.1	89.7	102.6	489.7	0.139	0.352	45.65
1413	2015	1,474	1,901.5	1,569.4	332.2	158.1	90.7	108.8	410.7	0.131	0.331	43.46
1414	2012	178	540.9	445.6	95.3	65.4	26.1	76.0	119.2	0.169	0.438	16.13
1414	2013	185	515.2	421.3	93.9	71.5	27.6	64.1	85.4	0.192	0.355	18.08
1414	2014	184	507.1	425.9	81.3	84.2	25.2	64.0	88.2	0.216	0.358	17.55
1414	2015	186	493.2	486.4	6.8	83.2	23.9	67.2	90.8	0.217	0.325	1.47
1439	2012	145	159.5	115.2	44.3	12.6	14.9	16.2	9.5	0.172	0.223	7.64
1439	2013	149	155.8	107.4	48.4	11.7	15.2	13.6	9.4	0.173	0.214	8.38
1439	2014	142	147.6	98.2	49.4	11.0	16.3	5.4	8.5	0.185	0.141	9.13
1439	2015	139	141.4	91.0	50.4	10.8	14.1	5.8	10.2	0.176	0.176	8.86
1511	2012	139	338.6	281.9	56.7	88.1	82.1	29.1	19.4	0.503	0.172	28.51
1511	2013	135	376.8	314.3	62.5	106.2	79.4	31.1	18.0	0.493	0.156	30.78
1511	2014	127	75,384.8	325.7	75,059.1	108.3	90.0	32.3	28.4	0.003	0.187	197.40
1511	2015	121	25,349.5	285.2	25,064.2	86.0	81.5	24.2	30.6	0.007	0.192	165.69
1512	2012	327	638.7	380.5	258.2	19.9	23.4	94.0	58.4	0.068	0.401	17.49
1512	2013	333	697.6	419.4	278.2	23.8	28.4	110.6	60.0	0.075	0.407	20.81
1512	2014	357	761.8	456.8	305.0	22.1	26.5	116.8	55.3	0.064	0.377	19.46
1512	2015	370	797.9	468.7	329.3	23.1	22.7	95.8	57.4	0.057	0.327	18.90
1520	2012	212	510.0	325.4	184.5	59.3	53.2	38.1	100.6	0.221	0.426	40.70
1520	2013	205	528.1	346.9	181.2	64.9	63.1	38.8	113.0	0.242	0.438	43.91
1520	2014	207	541.6	376.3	165.3	71.9	59.3	41.3	119.2	0.242	0.426	40.03
1520	2015	203	567.1	402.2	164.9	65.0	62.7	39.9	146.1	0.225	0.462	37.12
1610	2012	613	985.0	790.0	194.9	8.3	3.8	83.6	44.0	0.012	0.161	2.39
1610	2013	600	1,064.4	859.6	204.8	9.7	1.6	79.8	47.1	0.011	0.148	2.18
1610	2014	596	1,200.4	940.0	260.4	12.8	2.0	93.8	53.0	0.012	0.156	3.21
1610	2015	586	1,212.8	955.3	257.5	11.0	2.3	85.9	50.4	0.011	0.143	2.81
1621	2012	112	398.7	348.1	50.6	14.8	57.4	17.8	3.9	0.181	0.062	9.18
1621	2013	107	787.3	667.7	119.6	41.5	45.9	28.9	5.2	0.111	0.051	13.29

1621	2014	101	744.4	654.2	90.2	37.4	14.4	24.7	5.7	0.070	0.046	6.27
1621	2015	108	463.6	359.2	104.4	16.4	7.2	23.0	7.1	0.051	0.084	5.31
1623	2012	3,353	3,040.8	2,192.1	848.7	26.4	5.5	136.0	65.8	0.011	0.092	8.92
1623	2013	3,589	3,184.4	2,276.6	907.8	29.7	5.6	155.2	60.4	0.011	0.095	10.06
1623	2014	3,925	3,537.3	2,640.3	897.0	35.0	8.1	168.7	59.1	0.012	0.086	10.92
1623	2015	4,260	3,977.9	2,757.0	1,220.9	34.6	5.9	167.4	55.0	0.010	0.081	12.44
1624	2012	348	526.9	355.6	171.3	3.3	7.3	17.3	16.0	0.020	0.094	3.43
1624	2013	350	520.3	375.8	144.5	4.7	5.8	21.2	20.7	0.020	0.112	2.94
1624	2014	352	579.1	416.2	162.9	5.9	3.2	28.5	19.9	0.016	0.116	2.56
1624	2015	350	586.9	419.8	167.1	6.4	1.2	22.3	25.2	0.013	0.113	2.15
1629	2012	1,305	5,167.2	1,149.1	4,018.1	53.4	38.0	117.1	53.1	0.018	0.148	71.05
1629	2013	1,252	2,767.0	1,170.4	1,596.5	45.7	36.0	128.0	45.7	0.030	0.148	47.12
1629	2014	1,226	1,662.5	1,258.1	404.4	45.7	15.4	140.3	44.6	0.037	0.147	14.85
1629	2015	1,210	1,709.8	1,265.7	444.1	41.2	23.7	138.9	64.7	0.038	0.161	16.84
1712	2012	306	6,168.5	5,121.6	1,046.9	591.6	342.1	1,068.2	395.7	0.151	0.286	158.47
1712	2013	301	5,695.1	4,806.5	888.6	513.2	305.2	1,009.4	320.7	0.144	0.277	127.70
1712	2014	299	5,363.0	4,387.9	975.0	510.3	262.6	997.2	348.9	0.144	0.307	140.52
1712	2015	288	4,693.7	3,834.3	859.4	416.2	247.3	955.9	367.7	0.141	0.345	121.49
1722	2012	81	1,167.2	900.9	266.4	55.9	15.8	173.7	67.3	0.061	0.267	16.37
1722	2013	84	1,310.3	1,008.6	301.7	56.6	12.9	185.4	71.0	0.053	0.254	15.99
1722	2014	86	1,428.6	1,092.0	336.6	61.6	14.3	228.6	60.7	0.053	0.265	17.89
1722	2015	88	1,490.3	1,080.1	410.1	67.3	14.4	288.6	75.8	0.055	0.337	22.49
1723	2012	348	1,385.8	1,149.9	235.9	47.7	12.1	144.2	83.6	0.043	0.198	10.18
1723	2013	360	1,439.7	1,179.3	260.4	48.0	14.1	120.7	99.5	0.043	0.187	11.23
1723	2014	360	1,398.7	1,151.3	247.5	71.9	20.1	116.2	105.3	0.066	0.192	16.27
1723	2015	362	1,590.0	1,053.8	536.2	49.6	8.1	89.4	102.4	0.036	0.182	19.44
1729	2012	329	1,329.6	1,083.1	246.6	213.0	93.6	137.2	63.8	0.231	0.186	56.85
1729	2013	328	1,338.7	1,043.8	294.9	220.4	113.1	139.0	78.2	0.249	0.208	73.48
1729	2014	327	1,374.9	1,059.0	315.9	236.8	123.5	126.0	82.1	0.262	0.197	82.78
1729	2015	329	1,370.0	1,071.7	298.2	188.2	120.6	106.3	80.0	0.225	0.174	67.20
1811	2012	53	1,302.1	876.8	425.3	7.9	0.2	21.2	124.5	0.006	0.166	2.65
1811	2013	50	1,341.4	854.3	487.1	9.1	0.5	15.1	113.3	0.007	0.150	3.48
1811	2014	50	1,235.8	822.6	413.2	10.0	0.0	4.7	116.6	0.008	0.147	3.36
1811	2015	47	1,120.2	743.5	376.7	7.7	0.0	2.1	50.2	0.007	0.070	2.61
1812	2012	10,113	10,623.9	7,090.6	3,533.2	431.5	370.2	376.7	178.2	0.075	0.078	266.62

1812	2013	9,805	10,474.0	7,045.3	3,428.7	436.4	346.3	349.7	168.1	0.075	0.074	256.24
1812	2014	9,473	10,773.0	7,356.9	3,416.1	493.4	321.1	306.5	173.5	0.076	0.065	258.30
1812	2015	9,289	10,862.9	7,403.9	3,459.0	465.8	398.6	316.7	177.8	0.080	0.067	275.26
1813	2012	2,211	1,644.3	1,114.4	529.9	19.5	15.8	80.6	29.3	0.021	0.099	11.37
1813	2013	2,142	1,461.2	977.2	484.0	22.4	17.2	55.0	34.4	0.027	0.091	13.11
1813	2014	2,079	1,467.7	959.1	508.6	30.8	19.0	41.0	30.7	0.034	0.075	17.24
1813	2015	1,979	1,362.4	876.4	486.1	25.6	14.6	36.5	29.9	0.029	0.076	14.31
1814	2012	245	258.1	156.0	102.1	7.0	3.0	1.9	6.3	0.039	0.053	3.97
1814	2013	240	234.8	137.3	97.5	6.5	2.9	2.2	6.7	0.040	0.064	3.87
1814	2014	253	231.4	132.8	98.6	6.1	1.8	1.4	4.6	0.034	0.045	3.37
1814	2015	264	283.1	138.2	144.9	7.2	2.5	1.4	5.1	0.035	0.047	5.01
1820	2012	1,281	700.0	433.5	266.5	10.8	4.5	9.9	4.9	0.022	0.034	5.81
1820	2013	1,197	696.6	443.4	253.2	9.4	3.4	6.9	5.4	0.018	0.028	4.67
1820	2014	1,143	715.3	461.8	253.5	9.2	2.5	4.0	5.4	0.016	0.020	4.14
1820	2015	1,116	720.7	487.0	233.7	8.2	2.3	0.7	6.1	0.015	0.014	3.40
2012	2012	73	1,280.8	1,174.4	106.3	386.5	263.2	203.8	289.4	0.507	0.420	53.93
2012	2013	82	1,246.1	1,101.6	144.4	348.7	221.9	197.6	232.2	0.458	0.390	66.14
2012	2014	81	1,244.5	1,081.0	163.5	366.2	226.7	171.1	249.7	0.476	0.389	77.88
2012	2015	84	1,268.0	1,120.2	147.8	347.4	237.9	166.2	237.3	0.462	0.360	68.20
2013	2012	166	2,509.2	2,226.0	283.2	474.6	399.2	307.8	72.2	0.348	0.171	98.64
2013	2013	171	2,496.7	2,119.1	377.6	379.0	387.5	321.1	157.5	0.307	0.226	115.92
2013	2014	168	2,651.1	2,215.4	435.7	467.3	300.2	348.9	187.9	0.290	0.242	126.12
2013	2015	176	2,711.0	2,170.0	541.0	376.2	279.9	335.1	190.6	0.242	0.242	130.93
2014	2012	121	3,229.4	2,000.9	1,228.4	444.4	864.2	400.0	297.9	0.405	0.349	497.80
2014	2013	118	3,279.4	2,051.1	1,228.3	483.9	864.0	394.7	308.9	0.411	0.343	504.85
2014	2014	114	3,140.1	2,106.2	1,034.0	500.8	776.5	399.2	263.3	0.407	0.315	420.58
2014	2015	116	2,891.4	2,029.1	862.3	515.9	797.2	398.7	288.3	0.454	0.339	391.56
2020	2012	49	300.0	231.9	68.1	28.4	16.7	133.0	8.6	0.150	0.611	10.25
2020	2013	58	354.7	252.7	102.0	43.1	14.4	150.0	7.8	0.162	0.625	16.55
2020	2014	61	441.7	295.9	145.8	69.1	19.6	168.2	8.1	0.201	0.596	29.30
2020	2015	61	451.0	272.4	178.6	55.8	25.0	135.7	9.1	0.179	0.532	31.99
2030	2012	439	2,896.5	2,366.7	529.8	461.4	299.1	409.6	141.8	0.263	0.233	139.10
2030	2013	430	3,014.3	2,381.4	632.9	475.7	289.9	427.2	156.8	0.254	0.245	160.75
2030	2014	418	3,033.0	2,440.2	592.8	435.2	280.0	397.5	144.3	0.236	0.222	139.79
2030	2015	411	3,120.5	2,480.8	639.7	428.2	255.8	365.8	133.1	0.219	0.201	140.22

2041	2012	292	3,958.9	3,299.5	659.5	97.3	89.9	130.1	124.2	0.047	0.077	31.18
2041	2013	290	3,829.1	3,431.0	398.1	94.5	110.2	146.8	132.3	0.053	0.081	21.28
2041	2014	284	3,767.2	3,376.8	390.5	96.5	270.1	132.6	115.8	0.097	0.074	38.00
2041	2015	288	3,788.1	3,302.4	485.6	111.5	296.2	124.5	128.5	0.108	0.077	52.26
2042	2012	239	3,484.4	2,779.0	705.3	397.1	211.5	573.6	204.2	0.175	0.280	123.20
2042	2013	291	3,859.5	2,881.2	978.4	399.8	231.2	592.0	218.0	0.164	0.281	159.97
2042	2014	352	3,907.4	2,968.8	938.6	377.3	245.0	569.4	196.6	0.159	0.258	149.48
2042	2015	418	4,254.1	3,262.9	991.2	368.1	216.6	556.7	204.4	0.137	0.233	136.21
2052	2012	73	581.2	452.6	128.6	87.7	62.5	144.4	29.9	0.258	0.385	33.23
2052	2013	82	570.9	445.1	125.8	88.8	70.1	129.6	32.2	0.278	0.364	35.01
2052	2014	85	587.3	446.6	140.7	87.9	65.8	121.6	30.1	0.262	0.340	36.83
2052	2015	84	574.1	412.3	161.8	83.1	53.4	104.3	29.7	0.238	0.325	38.48
2053	2012	33	361.4	274.2	87.2	100.4	93.9	46.6	77.0	0.538	0.451	46.87
2053	2013	39	379.2	284.3	94.9	105.0	105.9	54.3	80.6	0.556	0.475	52.79
2053	2014	40	394.3	292.6	101.7	105.3	107.1	54.3	76.5	0.539	0.447	54.78
2053	2015	44	405.6	301.6	104.0	119.1	105.1	50.7	93.9	0.553	0.479	57.50
2059	2012	583	15,358.3	14,743.4	614.9	2,175.0	2,836.8	1,882.6	3,098.3	0.326	0.338	200.65
2059	2013	586	15,290.2	14,631.1	659.1	2,383.5	3,975.7	1,888.7	2,494.7	0.416	0.300	274.12
2059	2014	590	14,066.3	12,420.0	1,646.4	2,452.5	4,129.0	1,906.7	1,695.8	0.468	0.290	770.33
2059	2015	611	13,277.2	11,334.3	1,942.9	2,341.3	4,475.6	1,662.7	1,641.8	0.513	0.292	997.52
2110	2012	269	10,942.7	10,707.2	235.5	809.9	2,313.8	1,731.9	2,319.2	0.285	0.378	67.24
2110	2013	273	10,632.2	9,030.9	1,601.3	763.6	1,811.0	1,589.3	1,788.3	0.242	0.374	387.76
2110	2014	280	10,929.3	8,860.9	2,068.4	782.0	2,498.6	1,629.1	1,968.2	0.300	0.406	620.87
2110	2015	274	11,352.8	8,752.7	2,600.1	777.0	5,112.9	1,713.3	2,160.7	0.519	0.443	1348.96
2120	2012	244	23,356.9	18,034.4	5,322.5	4,633.8	5,567.3	2,841.0	2,550.5	0.437	0.299	2324.57
2120	2013	274	22,281.9	16,296.7	5,985.1	2,322.4	4,190.9	2,834.8	998.0	0.292	0.235	1749.52
2120	2014	306	31,049.7	19,219.8	11,830.0	1,840.7	3,900.1	3,709.9	795.3	0.185	0.234	2187.27
2120	2015	332	26,832.0	20,294.6	6,537.4	1,889.4	4,875.3	3,215.4	952.3	0.252	0.205	1648.15
2219	2012	506	2,207.5	1,470.3	737.2	396.5	235.6	431.3	106.1	0.286	0.365	211.09
2219	2013	504	2,302.5	1,536.6	765.9	416.3	254.9	453.5	109.9	0.291	0.367	223.25
2219	2014	504	2,358.1	1,545.8	812.3	416.8	242.1	398.6	113.4	0.279	0.331	226.99
2219	2015	518	2,183.4	1,418.7	764.6	333.5	215.5	334.9	105.7	0.251	0.311	192.29
2221	2012	365	2,319.7	1,754.0	565.7	347.1	151.6	335.9	103.1	0.215	0.250	121.62
2221	2013	369	2,461.5	1,834.1	627.4	360.0	162.5	335.1	126.9	0.212	0.252	133.18
2221	2014	376	2,580.2	1,904.9	675.3	358.9	156.0	344.4	138.1	0.200	0.253	134.75

2221	2015	389	2,685.9	1,977.4	708.4	346.3	160.6	316.1	142.2	0.189	0.232	133.71
2222	2012	392	2,920.5	2,343.0	577.6	346.3	66.1	490.0	182.2	0.141	0.287	81.55
2222	2013	401	3,061.3	2,367.9	693.4	349.9	58.4	481.4	185.5	0.133	0.282	92.48
2222	2014	401	3,991.0	2,352.5	1,638.5	348.0	60.3	491.3	180.8	0.102	0.286	167.62
2222	2015	404	3,301.3	2,380.8	920.5	334.0	60.4	439.8	185.1	0.119	0.262	109.97
2223	2012	881	2,973.2	2,206.4	766.8	137.9	67.4	165.5	107.8	0.069	0.124	52.97
2223	2013	881	3,328.3	2,407.7	920.6	154.0	74.2	202.1	115.0	0.069	0.132	63.11
2223	2014	948	3,392.3	2,485.0	907.3	151.0	86.8	192.6	135.1	0.070	0.132	63.60
2223	2015	1,008	3,483.4	2,541.4	942.0	119.5	70.1	143.5	159.3	0.054	0.119	51.28
2229	2012	2,406	9,185.8	6,050.0	3,135.8	1,593.1	404.0	720.5	649.1	0.217	0.226	681.74
2229	2013	2,395	7,200.8	5,816.9	1,384.0	1,622.7	402.5	842.7	616.3	0.281	0.251	389.23
2229	2014	2,392	7,013.3	5,418.8	1,594.5	1,370.4	360.2	760.5	469.0	0.247	0.227	393.47
2229	2015	2,420	6,890.7	4,954.6	1,936.1	1,264.6	301.7	656.9	531.9	0.227	0.240	440.10
2311	2012	213	400.8	306.1	94.7	19.9	5.7	13.8	18.0	0.064	0.104	6.06
2311	2013	215	572.7	422.2	150.5	58.0	4.3	28.8	19.5	0.109	0.114	16.36
2311	2014	216	626.5	445.5	181.1	48.4	5.5	30.0	22.7	0.086	0.118	15.58
2311	2015	210	691.6	454.2	237.4	44.6	4.4	28.7	20.0	0.071	0.107	16.80
2312	2012	320	459.4	308.9	150.5	11.4	3.4	37.9	6.5	0.032	0.144	4.87
2312	2013	329	484.8	320.8	164.0	11.8	2.2	40.1	7.3	0.029	0.148	4.73
2312	2014	330	488.7	331.0	157.7	14.7	2.4	38.3	6.4	0.035	0.135	5.51
2312	2015	331	500.5	345.6	154.9	14.2	1.8	28.4	6.5	0.032	0.101	4.93
2313	2012	34	532.5	376.8	155.7	29.1	4.5	41.0	8.4	0.063	0.131	9.80
2313	2013	31	537.8	404.0	133.8	21.6	8.9	48.3	6.9	0.057	0.137	7.59
2313	2014	35	601.6	466.0	135.6	21.8	7.1	46.1	6.6	0.048	0.113	6.52
2313	2015	37	678.2	520.7	157.5	26.0	12.7	54.3	7.7	0.057	0.119	8.99
2314	2012	154	183.9	134.3	49.6	23.3	16.1	8.4	5.7	0.215	0.105	10.64
2314	2013	144	182.9	139.5	43.4	27.7	12.6	7.0	8.2	0.220	0.109	9.56
2314	2014	140	200.6	148.7	51.9	63.1	12.3	6.8	21.7	0.376	0.191	19.52
2314	2015	137	191.8	141.0	50.8	39.6	14.5	7.0	14.4	0.282	0.151	14.34
2319	2012	359	1,250.7	915.1	335.6	149.8	75.9	195.1	37.8	0.180	0.254	60.56
2319	2013	340	1,200.6	887.7	312.9	105.3	64.1	170.6	37.2	0.141	0.234	44.14
2319	2014	332	1,193.1	912.0	281.1	97.0	67.5	159.4	39.4	0.138	0.218	38.75
2319	2015	315	1,181.8	821.2	360.6	84.8	62.6	155.3	34.7	0.125	0.231	44.99
2320	2012	72	299.0	233.5	65.5	65.3	64.0	32.7	28.8	0.432	0.263	28.34
2320	2013	74	307.3	236.9	70.5	61.3	48.7	35.3	33.0	0.358	0.288	25.22

2320	2014	79	302.0	229.4	72.6	59.4	46.7	32.3	32.6	0.351	0.283	25.51
2320	2015	85	281.1	210.1	70.9	50.1	46.8	24.8	28.3	0.345	0.253	24.46
2331	2012	106	126.8	98.8	28.1	3.5	0.8	12.0	27.0	0.034	0.395	0.96
2331	2013	99	134.3	111.9	22.4	3.5	1.3	12.4	27.4	0.036	0.356	0.81
2331	2014	93	147.6	121.4	26.2	1.6	1.3	13.9	31.2	0.020	0.371	0.52
2331	2015	91	152.6	117.5	35.1	0.6	4.0	13.3	32.3	0.030	0.388	1.07
2332	2012	164	581.2	427.8	153.4	32.6	17.2	48.7	16.8	0.086	0.153	13.13
2332	2013	154	531.9	362.0	169.9	4.9	5.6	37.2	7.5	0.020	0.123	3.37
2332	2014	154	656.6	462.1	194.4	4.9	6.5	52.4	9.7	0.017	0.134	3.38
2332	2015	159	708.7	476.8	231.8	5.3	5.1	55.6	11.2	0.015	0.140	3.39
2341	2012	156	270.8	186.7	84.2	22.3	30.3	5.2	41.5	0.194	0.250	16.36
2341	2013	172	271.0	181.1	89.8	25.1	33.7	7.0	41.8	0.217	0.269	19.50
2341	2014	179	282.6	194.0	88.6	25.0	37.3	10.6	39.3	0.221	0.257	19.55
2341	2015	176	293.7	193.0	100.6	25.4	41.6	10.6	42.1	0.228	0.273	22.95
2342	2012	34	60.3	54.0	6.3	0.5	1.9	9.7	1.6	0.040	0.208	0.25
2342	2013	34	65.0	55.6	9.4	0.3	2.1	11.0	1.7	0.037	0.230	0.35
2342	2014	33	81.7	65.3	16.4	2.5	1.3	11.2	2.4	0.048	0.208	0.78
2342	2015	36	96.2	68.5	27.7	0.1	1.4	9.3	2.7	0.016	0.174	0.45
2349	2012	128	163.1	100.7	62.4	39.3	26.0	14.7	7.9	0.401	0.224	24.99
2349	2013	120	184.0	117.7	66.3	40.4	24.7	15.2	12.8	0.354	0.239	23.50
2349	2014	113	202.7	124.2	78.5	41.3	27.2	24.0	9.0	0.338	0.266	26.54
2349	2015	110	204.3	127.3	77.0	44.1	25.6	23.2	9.5	0.342	0.257	26.30
2361	2012	412	1,307.7	907.2	400.5	24.1	4.2	55.5	28.9	0.022	0.093	8.66
2361	2013	436	1,413.2	967.9	445.2	23.5	4.5	55.9	43.8	0.020	0.103	8.83
2361	2014	448	1,586.4	1,101.8	484.6	21.9	4.2	62.4	37.3	0.016	0.091	7.98
2361	2015	466	1,698.4	1,168.0	530.4	19.2	3.8	55.2	44.2	0.014	0.085	7.17
2362	2012	46	1,250.0	601.0	649.0	16.2	2.0	54.0	5.6	0.015	0.099	9.45
2362	2013	54	1,357.0	662.7	694.2	17.7	2.4	50.3	6.8	0.015	0.086	10.29
2362	2014	55	1,489.7	679.6	810.2	17.4	3.0	56.1	6.6	0.014	0.092	11.08
2362	2015	56	1,763.3	837.5	925.8	23.7	7.8	85.0	10.3	0.018	0.114	16.58
2363	2012	156	263.8	209.5	54.3	2.1	0.1	2.5	0.3	0.008	0.013	0.45
2363	2013	158	296.6	240.0	56.6	2.1	0.3	3.1	0.6	0.008	0.015	0.45
2363	2014	159	358.6	301.7	56.9	2.7	0.3	4.3	1.0	0.008	0.018	0.47
2363	2015	173	404.5	372.8	31.7	1.7	0.4	4.8	0.5	0.005	0.014	0.16
2369	2012	132	344.6	273.3	71.3	1.4	3.4	15.0	6.1	0.014	0.077	0.99

2369	2013	128	413.4	318.6	94.8	1.9	2.9	20.3	3.3	0.012	0.074	1.11
2369	2014	127	419.3	314.0	105.3	2.2	2.5	18.0	3.2	0.011	0.068	1.17
2369	2015	118	396.7	301.8	95.0	1.7	6.7	14.4	4.1	0.021	0.062	2.02
2370	2012	1,001	478.2	304.5	173.8	0.7	3.1	7.0	18.1	0.008	0.083	1.37
2370	2013	994	544.0	296.6	247.4	1.3	3.0	5.6	17.7	0.008	0.079	1.96
2370	2014	977	513.4	311.9	201.5	0.6	3.2	4.0	16.9	0.007	0.067	1.49
2370	2015	957	506.3	330.7	175.6	0.7	3.3	2.9	17.0	0.008	0.060	1.39
2391	2012	104	212.5	161.8	50.7	19.5	16.1	42.9	9.9	0.167	0.326	8.49
2391	2013	93	223.5	167.3	56.2	20.6	18.7	49.9	9.6	0.176	0.356	9.87
2391	2014	92	227.3	160.6	66.7	15.8	11.3	46.2	9.0	0.119	0.344	7.95
2391	2015	86	225.7	158.6	67.1	15.1	17.0	45.2	7.7	0.143	0.334	9.56
2399	2012	159	838.1	621.1	217.0	88.6	66.9	113.7	43.1	0.185	0.252	40.24
2399	2013	166	801.1	604.2	196.8	92.0	63.0	104.6	37.6	0.194	0.235	38.09
2399	2014	166	844.7	638.5	206.2	90.2	61.2	111.4	38.7	0.179	0.235	36.97
2399	2015	170	798.1	604.5	193.6	73.0	63.4	92.3	41.3	0.171	0.221	33.09
2410	2012	757	8,272.2	7,300.8	971.4	1,915.2	1,228.7	1,046.5	1,445.8	0.380	0.341	369.19
2410	2013	821	8,010.2	6,875.0	1,135.3	2,098.3	1,053.8	751.9	1,435.4	0.394	0.318	446.74
2410	2014	900	7,724.6	6,697.6	1,027.0	2,082.5	1,139.4	789.3	1,239.6	0.417	0.303	428.36
2410	2015	967	6,732.4	5,801.2	931.2	1,617.1	912.7	661.8	930.6	0.376	0.274	349.91
2432	2012	43	70.8	59.9	10.9	0.2	0.4	0.0	6.7	0.008	0.112	0.09
2432	2013	40	74.4	52.3	22.1	0.3	0.4	0.0	1.2	0.009	0.024	0.19
2432	2014	40	76.1	56.9	19.2	0.3	2.1	0.0	1.4	0.031	0.025	0.60
2432	2015	42	69.6	51.3	18.3	0.4	1.9	0.0	1.4	0.033	0.027	0.60
2434	2012	34	92.1	69.1	23.0	11.6	14.0	15.7	2.7	0.277	0.266	6.38
2434	2013	34	89.0	68.6	20.4	11.2	13.2	16.0	2.6	0.274	0.272	5.58
2434	2014	32	84.5	76.1	8.4	10.2	13.8	10.8	4.9	0.284	0.207	2.40
2434	2015	40	67.2	53.7	13.5	4.5	9.0	8.3	2.1	0.201	0.193	2.72
2441	2012	110	1,268.1	553.4	714.7	884.3	117.0	47.7	422.8	0.790	0.850	564.30
2441	2013	106	856.7	492.7	364.0	248.4	207.9	43.4	106.6	0.533	0.304	193.85
2441	2014	98	456.2	334.2	122.0	30.9	69.8	35.5	10.0	0.221	0.136	26.94
2441	2015	97	296.9	248.6	48.3	22.5	34.5	29.8	13.6	0.192	0.175	9.26
2442	2012	163	1,877.6	1,541.7	335.9	490.9	180.1	216.9	257.4	0.357	0.308	120.03
2442	2013	159	1,709.2	1,403.4	305.8	516.0	160.7	285.2	230.7	0.396	0.368	121.06
2442	2014	155	2,502.7	1,409.9	1,092.8	555.3	177.1	260.7	207.8	0.293	0.332	319.79
2442	2015	160	2,157.4	1,438.2	719.2	583.1	199.8	227.2	246.6	0.363	0.329	260.99

2444	2012	44	367.2	326.5	40.7	85.5	65.8	138.7	32.5	0.412	0.524	16.76
2444	2013	43	377.8	330.0	47.8	92.2	48.5	136.2	37.1	0.372	0.525	17.80
2444	2014	39	356.9	309.9	47.0	82.3	48.0	126.1	39.5	0.365	0.534	17.15
2444	2015	37	313.1	279.3	33.8	66.8	40.0	108.5	37.4	0.341	0.522	11.53
2451	2012	148	450.0	312.4	137.5	133.6	17.4	6.4	7.9	0.336	0.046	46.14
2451	2013	146	457.3	311.0	146.3	135.6	19.1	6.4	9.4	0.338	0.051	49.52
2451	2014	148	464.1	313.0	151.2	152.2	19.5	2.4	11.5	0.370	0.044	55.93
2451	2015	142	589.2	297.6	291.6	137.9	20.1	1.4	9.3	0.268	0.036	78.18
2452	2012	157	337.4	263.5	73.9	22.7	15.3	100.1	7.3	0.113	0.407	8.34
2452	2013	146	316.1	239.6	76.5	18.1	13.1	81.9	9.6	0.098	0.382	7.53
2452	2014	143	301.3	223.9	77.4	14.6	12.5	63.5	10.6	0.090	0.331	6.95
2452	2015	136	290.5	213.5	77.0	10.6	12.5	59.5	7.8	0.079	0.315	6.10
2453	2012	105	197.0	135.0	62.0	19.3	6.1	6.1	4.1	0.129	0.076	8.00
2453	2013	101	218.4	163.2	55.2	29.6	17.5	8.5	3.0	0.216	0.070	11.90
2453	2014	101	232.7	169.6	63.1	32.8	17.0	9.9	6.1	0.214	0.094	13.50
2453	2015	102	245.7	170.7	75.0	33.7	15.7	4.7	5.4	0.201	0.059	15.09
2454	2012	139	382.6	282.8	99.8	33.4	7.6	22.4	17.9	0.107	0.143	10.69
2454	2013	142	405.5	291.7	113.7	51.5	4.7	20.8	16.4	0.139	0.127	15.77
2454	2014	135	287.8	188.7	99.1	61.4	11.7	9.0	16.3	0.254	0.134	25.19
2454	2015	132	279.4	184.5	94.9	71.5	3.8	8.5	13.9	0.270	0.121	25.61
2511	2012	2,506	4,801.9	3,395.2	1,406.7	239.1	199.1	198.4	60.7	0.091	0.076	128.38
2511	2013	2,539	4,599.4	3,312.5	1,286.9	255.3	176.4	160.8	56.6	0.094	0.066	120.80
2511	2014	2,517	4,757.3	3,659.6	1,097.7	250.8	189.4	165.1	61.5	0.093	0.062	101.57
2511	2015	2,506	4,833.2	3,515.9	1,317.3	200.1	178.0	158.5	53.0	0.078	0.060	103.04
2521	2012	117	741.9	582.0	159.9	26.0	7.9	217.1	48.2	0.046	0.456	7.29
2521	2013	115	842.8	639.4	203.4	30.7	6.6	240.1	63.7	0.044	0.475	9.01
2521	2014	124	884.8	651.1	233.8	44.0	6.9	213.4	49.6	0.057	0.404	13.44
2521	2015	131	918.7	653.3	265.4	51.2	13.5	199.7	52.9	0.070	0.387	18.69
2529	2012	124	419.9	317.5	102.4	20.5	36.3	31.3	7.3	0.135	0.122	13.85
2529	2013	122	407.8	308.7	99.1	16.2	22.0	28.4	8.4	0.094	0.119	9.27
2529	2014	118	397.4	293.2	104.2	14.8	24.1	30.0	7.4	0.098	0.127	10.20
2529	2015	118	369.9	267.6	102.3	18.4	27.8	31.3	3.4	0.125	0.130	12.77
2530	2012	108	209.4	129.5	79.9	10.2	15.7	5.6	6.0	0.123	0.090	9.85
2530	2013	111	240.3	148.8	91.5	11.2	10.4	12.4	3.2	0.090	0.105	8.22
2530	2014	121	247.9	142.6	105.3	9.8	11.8	15.3	1.1	0.087	0.115	9.21

2530	2015	130	268.0	159.6	108.3	8.8	9.1	13.8	2.2	0.067	0.101	7.23
2540	2012	113	354.2	240.1	114.1	12.9	18.5	38.3	7.2	0.089	0.190	10.10
2540	2013	114	290.9	217.6	73.3	18.8	20.4	30.0	6.4	0.135	0.167	9.87
2540	2014	117	322.9	218.1	104.8	26.9	22.8	27.6	7.5	0.154	0.161	16.15
2540	2015	117	333.9	220.2	113.7	30.0	21.0	27.9	9.0	0.153	0.167	17.35
2550	2012	667	1,619.5	1,162.7	456.9	158.5	164.6	117.8	166.3	0.199	0.244	91.13
2550	2013	640	1,662.3	1,168.6	493.7	164.6	141.0	100.5	166.2	0.184	0.228	90.76
2550	2014	619	1,757.2	1,248.3	508.9	179.2	158.2	108.3	137.0	0.192	0.196	97.70
2550	2015	600	1,748.2	1,225.6	522.6	166.7	147.4	104.2	104.4	0.180	0.170	93.89
2561	2012	1,071	1,448.1	889.7	558.3	122.6	83.3	169.1	51.1	0.142	0.247	79.40
2561	2013	1,071	1,503.4	930.1	573.3	133.1	94.6	139.1	131.4	0.151	0.291	86.84
2561	2014	1,084	1,547.3	944.5	602.8	133.9	87.9	132.2	86.5	0.143	0.231	86.43
2561	2015	1,097	1,493.4	907.5	585.8	123.9	133.8	123.0	95.7	0.173	0.241	101.13
2562	2012	8,881	10,011.1	6,600.4	3,410.7	534.4	957.8	412.7	566.9	0.149	0.148	508.37
2562	2013	9,219	10,203.3	6,804.6	3,398.7	556.4	1,032.8	482.5	630.3	0.156	0.164	529.34
2562	2014	9,506	10,687.7	7,130.9	3,556.8	637.5	1,122.4	494.4	634.3	0.165	0.158	585.69
2562	2015	9,866	10,908.9	6,845.0	4,063.9	631.1	1,100.8	424.9	714.6	0.159	0.166	645.18
2571	2012	31	30.1	22.7	7.4	2.0	3.1	0.2	5.3	0.168	0.247	1.24
2571	2013	31	29.2	21.0	8.2	2.2	2.8	0.0	6.0	0.171	0.287	1.40
2571	2014	30	29.7	21.4	8.3	2.2	3.2	0.0	6.1	0.182	0.284	1.51
2571	2015	30	32.2	23.3	9.0	2.3	3.0	0.0	5.8	0.162	0.248	1.45
2572	2012	415	532.5	398.0	134.5	34.1	25.7	38.7	78.0	0.112	0.293	15.11
2572	2013	440	533.9	377.0	156.9	38.3	24.9	36.6	62.0	0.118	0.261	18.56
2572	2014	449	562.1	382.2	179.9	48.4	26.4	46.6	67.6	0.133	0.299	23.93
2572	2015	440	612.8	418.1	194.7	60.9	32.7	39.4	70.8	0.153	0.263	29.73
2573	2012	1,084	2,010.5	1,426.1	584.4	278.0	323.2	175.5	202.2	0.299	0.265	174.77
2573	2013	1,066	2,060.7	1,445.2	615.5	278.9	292.5	170.7	198.0	0.277	0.255	170.69
2573	2014	1,052	2,182.1	1,498.1	684.0	275.2	300.2	196.7	204.3	0.264	0.268	180.35
2573	2015	1,047	2,092.3	1,455.7	636.5	265.9	318.2	154.6	212.2	0.279	0.252	177.72
2591	2012	52	502.7	305.3	197.4	58.5	3.7	94.5	13.5	0.124	0.354	24.41
2591	2013	49	318.6	207.1	111.5	5.7	5.9	6.6	17.4	0.037	0.116	4.07
2591	2014	47	258.5	162.7	95.8	3.5	7.3	6.7	21.1	0.042	0.171	4.00
2591	2015	47	239.9	149.9	90.0	2.2	8.7	5.7	16.2	0.045	0.146	4.08
2592	2012	82	1,935.0	1,879.2	55.9	324.4	122.2	378.1	60.6	0.231	0.233	12.90
2592	2013	85	1,840.3	1,839.4	1.0	296.9	108.9	395.1	56.9	0.221	0.246	0.22

2592	2014	80	1,829.6	1,829.5	0.0	280.5	102.7	430.3	50.8	0.209	0.263	0.01
2592	2015	78	1,957.7	1,778.0	179.7	264.3	108.5	405.5	55.4	0.190	0.259	34.22
2593	2012	585	1,703.1	1,307.6	395.4	248.3	250.3	174.2	188.3	0.293	0.277	115.77
2593	2013	562	1,629.3	1,248.1	381.2	222.2	232.7	179.5	164.6	0.279	0.276	106.46
2593	2014	560	1,697.1	1,290.6	406.5	246.9	221.8	179.8	174.6	0.276	0.275	112.28
2593	2015	554	3,172.1	2,759.6	412.4	250.2	256.3	165.0	170.3	0.160	0.122	65.85
2594	2012	38	62.7	39.1	23.6	21.3	10.5	3.6	4.9	0.507	0.216	11.96
2594	2013	47	63.1	40.0	23.1	10.6	13.8	2.4	4.5	0.387	0.173	8.93
2594	2014	54	90.2	63.7	26.5	16.3	16.3	2.5	7.5	0.362	0.157	9.61
2594	2015	64	203.4	151.1	52.2	19.1	18.4	3.2	11.8	0.185	0.099	9.64
2599	2012	5,090	6,241.4	4,513.9	1,727.6	352.5	373.4	500.2	242.3	0.116	0.164	200.91
2599	2013	4,786	6,508.0	4,603.6	1,904.4	366.8	430.6	470.7	257.2	0.123	0.158	233.36
2599	2014	4,582	6,879.8	4,693.7	2,186.0	514.9	400.5	446.2	281.1	0.133	0.155	290.89
2599	2015	4,416	6,858.2	4,874.5	1,983.7	558.9	347.4	437.5	303.5	0.132	0.152	262.15
2611	2012	771	5,390.1	3,418.1	1,972.0	927.7	689.6	193.6	792.9	0.300	0.289	591.73
2611	2013	803	5,754.0	3,424.4	2,329.6	673.5	720.6	260.3	699.0	0.242	0.280	564.41
2611	2014	838	6,418.8	3,879.3	2,539.5	1,044.5	749.6	172.8	1,458.4	0.280	0.420	709.81
2611	2015	847	6,890.8	4,149.6	2,741.3	1,101.3	759.8	197.6	1,561.9	0.270	0.424	740.38
2612	2012	55	25.4	19.4	5.9	0.1	1.7	0.0	1.1	0.074	0.055	0.44
2612	2013	62	34.5	24.4	10.1	0.3	2.0	0.0	1.4	0.066	0.057	0.67
2612	2014	63	43.4	29.3	14.1	2.2	2.7	0.0	4.3	0.112	0.147	1.59
2612	2015	71	53.5	41.9	11.6	0.7	4.4	0.0	16.5	0.096	0.394	1.11
2620	2012	821	6,450.5	3,580.9	2,869.6	613.2	464.4	215.3	891.9	0.167	0.309	479.37
2620	2013	840	5,535.8	3,748.8	1,787.0	683.8	525.2	282.5	881.0	0.218	0.310	390.25
2620	2014	841	5,701.0	3,859.7	1,841.3	562.7	503.5	314.0	641.5	0.187	0.248	344.38
2620	2015	849	5,435.5	3,818.9	1,616.6	511.5	527.8	297.2	570.0	0.191	0.227	309.09
2630	2012	1,737	5,444.8	3,847.8	1,597.0	593.2	751.4	560.9	576.8	0.247	0.296	394.38
2630	2013	1,675	5,593.9	3,889.2	1,704.7	573.2	759.2	519.2	574.9	0.238	0.281	406.05
2630	2014	1,611	5,890.4	3,958.9	1,931.5	617.1	773.0	565.1	648.6	0.236	0.307	455.83
2630	2015	1,553	5,798.0	3,833.8	1,964.2	594.8	794.2	452.2	703.3	0.240	0.301	470.55
2640	2012	660	3,416.7	2,957.1	459.6	417.4	377.3	221.0	708.0	0.233	0.314	106.90
2640	2013	643	3,499.7	3,070.6	429.1	383.4	357.7	242.4	629.1	0.212	0.284	90.86
2640	2014	637	3,423.2	2,890.9	532.3	383.1	313.0	270.5	532.1	0.203	0.278	108.24
2640	2015	626	4,257.6	2,268.3	1,989.3	365.0	289.3	291.5	554.9	0.154	0.373	305.71
2651	2012	1,787	8,036.4	5,380.6	2,655.9	1,025.3	1,817.7	682.5	671.7	0.354	0.252	939.55

2651	2013	1,818	8,206.6	5,357.2	2,849.5	1,047.8	1,846.7	725.0	666.4	0.353	0.260	1005.01
2651	2014	1,831	8,329.1	5,332.9	2,996.2	1,046.3	1,907.0	585.5	791.8	0.355	0.258	1062.37
2651	2015	1,892	8,209.1	5,157.5	3,051.5	912.1	1,980.6	595.0	680.8	0.352	0.247	1075.32
2670	2012	271	699.9	527.9	172.0	84.5	237.8	40.8	130.3	0.461	0.324	79.19
2670	2013	284	742.8	593.4	149.4	95.8	243.5	43.9	153.9	0.457	0.333	68.25
2670	2014	295	780.1	621.1	158.9	96.1	272.0	48.3	147.7	0.472	0.316	74.99
2670	2015	305	786.2	601.9	184.3	96.0	273.7	40.8	140.3	0.470	0.301	86.64
2711	2012	64	211.6	159.7	51.9	28.6	35.7	18.5	20.7	0.304	0.245	15.77
2711	2013	87	301.2	187.6	113.6	34.2	46.2	18.1	21.8	0.267	0.212	30.31
2711	2014	122	413.6	322.1	91.5	56.3	68.1	47.9	33.5	0.301	0.253	27.54
2711	2015	139	420.3	406.1	14.2	52.1	65.1	68.7	31.7	0.279	0.247	3.96
2712	2012	524	3,916.6	3,265.9	650.7	205.4	304.6	264.5	257.8	0.130	0.160	84.74
2712	2013	515	3,968.3	3,170.3	798.1	234.0	301.9	298.2	264.6	0.135	0.178	107.78
2712	2014	497	4,472.3	3,214.6	1,257.7	284.7	319.6	316.9	299.7	0.135	0.192	169.95
2712	2015	498	5,434.6	3,670.0	1,764.6	264.4	289.3	308.8	297.7	0.102	0.165	179.80
2720	2012	63	437.3	334.5	102.8	93.9	74.2	64.6	158.7	0.384	0.668	39.53
2720	2013	62	476.5	332.5	144.0	89.2	66.6	75.1	168.0	0.327	0.731	47.06
2720	2014	61	593.4	388.4	204.9	96.2	65.6	67.7	159.8	0.273	0.586	55.88
2720	2015	61	539.6	370.0	169.6	96.3	55.7	77.0	178.7	0.282	0.691	47.79
2732	2012	193	1,533.2	1,144.8	388.4	274.4	211.8	225.3	172.0	0.317	0.347	123.17
2732	2013	202	1,532.2	1,164.2	368.0	274.9	233.9	284.6	191.9	0.332	0.409	122.21
2732	2014	208	1,532.7	1,153.2	379.4	247.4	207.2	431.7	187.9	0.297	0.537	112.53
2732	2015	208	1,548.1	1,147.1	401.0	218.9	218.7	389.0	155.7	0.283	0.475	113.35
2740	2012	533	1,067.7	739.7	328.0	90.2	67.8	80.6	62.0	0.148	0.193	48.53
2740	2013	561	1,039.3	756.2	283.1	85.8	72.7	97.8	62.4	0.152	0.212	43.18
2740	2014	609	1,120.1	851.8	268.3	77.9	77.4	114.4	63.3	0.139	0.209	37.18
2740	2015	619	1,131.2	840.8	290.4	119.9	77.4	122.3	67.8	0.174	0.226	50.65
2751	2012	219	3,010.2	2,549.7	460.5	117.6	55.3	571.6	612.6	0.057	0.464	26.45
2751	2013	214	2,932.7	2,388.7	543.9	128.9	59.9	463.3	679.2	0.064	0.478	35.02
2751	2014	220	2,888.3	2,482.6	405.7	112.7	55.1	496.1	618.5	0.058	0.449	23.57
2751	2015	225	3,311.3	2,783.8	527.6	117.1	65.9	457.5	686.5	0.055	0.411	29.15
2752	2012	77	242.0	188.2	53.8	10.6	9.5	39.9	37.9	0.083	0.414	4.48
2752	2013	89	245.1	191.2	53.9	10.2	9.8	37.5	42.4	0.082	0.418	4.41
2752	2014	102	271.1	191.7	79.4	11.0	10.7	36.5	38.1	0.080	0.389	6.35
2752	2015	109	267.1	191.3	75.8	20.1	13.0	39.0	45.3	0.124	0.441	9.37

2790	2012	450	384.7	363.7	21.0	36.1	40.8	2.5	21.5	0.200	0.066	4.19
2790	2013	481	442.5	405.0	37.5	48.9	64.1	3.8	25.9	0.255	0.074	9.57
2790	2014	500	528.3	437.1	91.2	66.4	112.6	20.7	31.6	0.339	0.120	30.91
2790	2015	519	624.7	501.5	123.2	94.0	184.6	34.8	34.2	0.446	0.138	54.95
2811	2012	276	9,656.8	8,582.2	1,074.7	723.3	2,252.4	1,808.0	1,155.8	0.308	0.345	331.16
2811	2013	311	9,476.5	8,487.1	989.4	889.6	1,834.2	2,113.9	1,039.4	0.287	0.372	284.38
2811	2014	329	9,282.5	7,635.6	1,646.9	928.7	1,770.5	1,249.5	948.0	0.291	0.288	478.89
2811	2015	349	8,661.7	7,024.2	1,637.5	792.3	1,831.0	934.0	1,126.4	0.303	0.293	495.93
2813	2012	378	2,810.7	2,079.3	731.3	434.4	775.9	419.0	211.0	0.431	0.303	314.90
2813	2013	376	3,011.4	2,212.2	799.2	440.8	763.0	448.0	216.1	0.400	0.300	319.49
2813	2014	373	3,068.9	2,242.8	826.1	503.8	694.3	451.6	210.1	0.390	0.295	322.50
2813	2015	363	2,911.7	2,123.6	788.2	436.9	671.1	347.9	183.4	0.381	0.250	299.92
2814	2012	168	1,640.7	1,151.6	489.1	233.8	449.9	167.1	188.0	0.417	0.308	203.81
2814	2013	163	1,685.6	1,134.1	551.5	211.1	422.6	165.3	174.5	0.376	0.300	207.32
2814	2014	161	1,691.9	1,133.8	558.0	195.8	413.5	152.2	165.4	0.360	0.280	200.96
2814	2015	162	1,539.1	973.4	565.7	177.1	369.9	112.2	163.8	0.355	0.284	201.05
2815	2012	230	1,412.3	1,118.1	294.2	433.5	232.6	327.2	212.6	0.472	0.483	138.77
2815	2013	231	1,441.6	1,062.5	379.1	464.1	201.0	335.2	180.9	0.461	0.486	174.90
2815	2014	231	1,464.1	1,067.4	396.6	435.6	200.6	350.5	178.3	0.435	0.495	172.34
2815	2015	234	1,375.8	968.9	406.9	392.8	161.6	291.3	143.9	0.403	0.449	163.98
2821	2012	132	400.2	320.2	80.0	22.8	54.6	7.1	6.8	0.194	0.043	15.48
2821	2013	142	406.9	352.0	54.9	34.7	37.5	10.7	7.1	0.178	0.050	9.75
2821	2014	157	416.4	348.0	68.4	24.8	38.7	8.5	21.3	0.153	0.086	10.43
2821	2015	173	456.8	354.2	102.6	26.4	42.3	12.6	21.2	0.150	0.095	15.43
2822	2012	867	2,644.2	1,716.8	927.4	209.8	297.8	291.9	87.6	0.192	0.221	178.05
2822	2013	844	2,656.1	1,783.4	872.7	215.4	274.0	339.3	95.8	0.184	0.244	160.80
2822	2014	861	2,812.2	1,883.5	928.7	204.6	250.4	300.4	100.7	0.162	0.213	150.28
2822	2015	852	2,837.0	1,874.1	962.9	195.2	245.9	278.8	107.7	0.155	0.206	149.72
2823	2012	111	1,746.4	1,365.9	380.5	95.6	95.2	319.2	39.2	0.109	0.262	41.58
2823	2013	114	1,673.2	1,249.7	423.5	104.4	84.3	310.0	42.8	0.113	0.282	47.76
2823	2014	122	1,575.3	1,081.6	493.7	89.0	75.9	187.7	45.5	0.105	0.216	51.69
2823	2015	126	1,454.5	958.0	496.5	76.2	69.3	174.1	36.5	0.100	0.220	49.68
2825	2012	709	1,942.2	1,365.1	577.1	121.7	131.5	105.0	80.4	0.130	0.136	75.24
2825	2013	699	1,937.8	1,362.4	575.4	120.2	142.4	113.0	82.0	0.136	0.143	77.97
2825	2014	690	2,082.9	1,452.3	630.6	123.6	143.2	102.1	93.9	0.128	0.135	80.78

2825	2015	670	2,078.6	1,419.0	659.6	126.6	148.1	83.6	93.1	0.132	0.124	87.18
2829	2012	1,502	3,394.6	2,423.0	971.6	593.7	559.5	215.6	638.2	0.340	0.352	330.05
2829	2013	1,487	3,523.0	2,445.5	1,077.5	669.2	588.4	228.8	733.3	0.357	0.393	384.62
2829	2014	1,485	3,633.1	2,464.7	1,168.4	589.1	602.5	249.9	657.6	0.328	0.368	383.20
2829	2015	1,479	3,533.9	2,482.2	1,051.7	619.0	617.5	257.2	630.6	0.350	0.358	367.99
2830	2012	100	2,226.8	1,218.0	1,008.8	504.6	330.0	720.3	15.8	0.375	0.604	378.09
2830	2013	127	2,122.2	1,186.7	935.5	445.0	381.6	657.6	14.5	0.389	0.566	364.37
2830	2014	149	2,133.3	1,213.4	919.9	488.0	402.3	837.3	12.9	0.417	0.701	383.92
2830	2015	161	1,965.1	1,064.5	900.6	406.2	370.0	615.7	10.8	0.395	0.589	355.73
2841	2012	158	163.3	109.1	54.2	11.7	28.3	8.1	9.2	0.245	0.158	13.27
2841	2013	184	171.1	115.9	55.3	13.9	47.9	7.9	10.5	0.361	0.158	19.98
2841	2014	225	188.5	188.2	0.3	19.9	33.8	7.0	9.9	0.285	0.090	0.07
2841	2015	257	196.0	155.9	40.1	25.7	33.4	5.2	12.5	0.301	0.114	12.10
2849	2012	1,127	2,375.4	1,765.0	610.4	289.2	321.7	245.5	179.4	0.257	0.241	156.96
2849	2013	1,095	2,481.0	1,856.0	625.0	288.6	327.7	263.9	153.2	0.248	0.225	155.27
2849	2014	1,045	2,678.8	1,991.3	687.4	310.6	422.8	291.3	173.7	0.274	0.233	188.21
2849	2015	1,011	2,677.0	2,031.9	645.1	315.0	424.3	281.7	193.3	0.276	0.234	178.15
2891	2012	36	134.9	92.2	42.7	23.2	42.6	2.0	7.4	0.488	0.102	20.82
2891	2013	37	132.6	99.9	32.7	18.5	45.6	1.8	5.1	0.483	0.070	15.79
2891	2014	37	113.4	71.6	41.8	20.5	32.1	0.2	5.4	0.464	0.078	19.39
2891	2015	33	84.9	53.0	31.9	16.9	36.0	0.0	5.7	0.623	0.107	19.87
2892	2012	228	6,268.5	5,065.3	1,203.2	886.6	1,893.8	395.4	476.9	0.444	0.172	533.70
2892	2013	240	6,473.1	5,803.8	669.3	681.1	1,861.4	401.9	464.8	0.393	0.149	262.87
2892	2014	251	10,693.8	5,885.2	4,808.6	944.8	1,494.6	390.2	450.3	0.228	0.143	1096.92
2892	2015	258	6,979.2	5,028.0	1,951.1	716.2	1,452.5	345.9	365.1	0.311	0.141	606.27
2893	2012	393	1,302.1	886.6	415.5	180.2	218.4	125.9	150.1	0.306	0.311	127.19
2893	2013	420	1,298.4	945.5	352.9	128.2	213.8	127.9	164.9	0.263	0.310	92.96
2893	2014	435	1,267.1	951.6	315.5	120.0	194.1	130.5	127.4	0.248	0.271	78.21
2893	2015	441	1,237.9	896.9	341.0	110.1	183.6	101.4	120.8	0.237	0.248	80.90
2894	2012	151	181.1	129.4	51.7	23.8	61.9	12.7	8.9	0.473	0.167	24.47
2894	2013	151	184.2	130.7	53.5	21.1	112.2	18.0	8.5	0.724	0.203	38.73
2894	2014	154	176.6	122.9	53.7	24.8	55.8	12.3	6.8	0.456	0.156	24.49
2894	2015	152	171.1	119.2	51.9	21.0	48.7	8.6	8.7	0.407	0.145	21.14
2895	2012	36	183.1	148.1	35.0	34.7	33.6	9.9	4.4	0.373	0.096	13.08
2895	2013	36	180.9	141.5	39.4	38.4	35.7	6.8	4.0	0.410	0.077	16.16

2895	2014	37	112.5	71.7	40.7	26.7	18.6	5.9	4.4	0.403	0.143	16.42
2895	2015	35	107.2	68.4	38.8	21.0	22.2	3.8	4.7	0.403	0.124	15.64
2896	2012	1,212	3,491.6	2,407.1	1,084.5	422.9	744.8	202.8	200.4	0.334	0.168	362.70
2896	2013	1,150	3,455.3	2,398.2	1,057.1	429.8	688.6	236.7	195.8	0.324	0.180	342.17
2896	2014	1,090	3,296.8	2,336.8	959.9	371.2	671.9	199.1	191.7	0.316	0.167	303.73
2896	2015	1,047	3,233.3	2,217.0	1,016.3	326.8	649.7	177.1	196.4	0.302	0.168	306.94
2899	2012	167	732.9	486.0	246.9	47.1	67.0	92.9	28.0	0.156	0.249	38.46
2899	2013	183	791.3	520.3	271.0	48.6	74.6	89.3	30.9	0.156	0.231	42.21
2899	2014	195	926.7	604.7	322.0	62.7	82.5	89.4	59.8	0.157	0.247	50.45
2899	2015	208	917.9	591.6	326.3	52.3	75.7	82.7	40.1	0.139	0.208	45.51
2910	2012	462	52,210.1	45,423.7	6,786.4	5,834.1	3,462.9	13,365.3	4,448.2	0.178	0.392	1208.46
2910	2013	493	58,112.4	50,176.5	7,936.0	6,974.3	11,161.7	14,552.8	4,755.6	0.312	0.385	2476.70
2910	2014	511	61,986.4	53,053.0	8,933.4	8,344.1	14,343.0	16,587.4	4,546.7	0.366	0.398	3269.64
2910	2015	548	64,988.9	55,593.2	9,395.7	8,641.3	14,228.6	16,274.8	4,782.2	0.352	0.379	3306.38
2920	2012	632	2,254.6	1,822.4	432.2	73.5	62.2	213.6	18.2	0.060	0.127	26.01
2920	2013	649	2,256.5	1,772.3	484.2	78.8	52.3	220.3	21.3	0.058	0.136	28.13
2920	2014	675	2,513.7	1,978.4	535.3	86.4	63.8	239.9	18.8	0.060	0.131	32.00
2920	2015	693	4,891.9	2,442.8	2,449.1	90.6	63.6	261.0	26.6	0.032	0.118	77.20
2931	2012	196	1,119.4	950.7	168.7	360.9	113.9	287.4	99.9	0.424	0.407	71.55
2931	2013	199	1,118.5	938.7	179.8	382.6	107.3	382.2	95.7	0.438	0.509	78.73
2931	2014	210	1,209.3	1,023.5	185.7	351.0	83.2	381.6	95.5	0.359	0.466	66.68
2931	2015	221	1,269.9	1,049.4	220.5	373.2	89.4	379.5	110.7	0.364	0.467	80.30
2932	2012	1,100	11,390.9	9,530.5	1,860.5	1,609.4	457.9	2,516.0	1,106.4	0.181	0.380	337.67
2932	2013	1,112	11,889.1	9,645.7	2,243.4	1,638.5	376.1	2,652.6	1,064.1	0.169	0.385	380.14
2932	2014	1,125	11,996.1	9,843.2	2,152.9	1,582.0	435.2	2,631.7	1,043.2	0.168	0.373	362.02
2932	2015	1,185	12,584.6	10,202.9	2,381.8	1,843.7	618.5	2,657.9	1,188.7	0.196	0.377	465.99
3011	2012	480	1,694.1	1,164.7	529.4	90.6	257.7	51.6	32.9	0.206	0.073	108.82
3011	2013	488	1,727.9	1,244.2	483.7	93.5	252.0	47.8	24.2	0.200	0.058	96.74
3011	2014	527	1,761.2	1,265.7	495.6	86.0	217.0	39.1	16.8	0.172	0.044	85.27
3011	2015	553	1,625.0	1,162.2	462.8	67.4	231.1	36.9	15.2	0.184	0.045	85.01
3012	2012	555	500.4	371.8	128.6	59.0	81.7	19.7	41.7	0.281	0.165	36.15
3012	2013	538	460.3	370.6	89.7	78.5	67.9	21.6	37.9	0.318	0.161	28.51
3012	2014	530	442.3	338.0	104.3	44.8	95.1	17.8	73.3	0.316	0.269	32.99
3012	2015	529	418.7	317.7	101.0	61.5	139.4	9.2	16.9	0.480	0.082	48.44
3030	2012	524	35,724.2	26,611.8	9,112.3	1,650.2	11,335.5	1,351.8	7,739.0	0.363	0.342	3312.31

3030	2013	598	38,451.7	27,197.9	11,253.9	1,834.0	13,087.3	1,394.2	9,200.0	0.388	0.390	4367.12
3030	2014	650	37,973.4	25,734.4	12,239.0	3,293.2	13,342.7	1,383.5	9,503.9	0.438	0.423	5361.82
3030	2015	677	38,666.0	26,471.0	12,194.9	7,078.4	14,967.1	1,631.6	10,744.6	0.570	0.468	6952.96
3091	2012	65	456.7	429.0	27.8	134.8	95.2	47.5	167.7	0.503	0.502	13.97
3091	2013	71	485.0	422.0	63.0	140.5	107.4	38.5	163.6	0.511	0.479	32.19
3091	2014	80	478.0	413.2	64.8	127.3	105.8	42.6	149.7	0.488	0.465	31.61
3091	2015	84	443.9	376.5	67.5	112.0	75.8	35.8	130.4	0.423	0.441	28.53
3099	2012	232	626.5	476.2	150.3	45.0	105.7	121.2	77.9	0.241	0.418	36.16
3099	2013	220	646.8	473.8	173.0	51.1	167.8	121.3	75.5	0.338	0.415	58.54
3099	2014	201	781.3	491.0	290.3	60.2	107.1	140.1	87.1	0.214	0.463	62.16
3099	2015	177	733.0	527.2	205.8	79.9	121.1	139.2	102.0	0.274	0.458	56.43
3101	2012	792	1,379.5	997.7	381.7	67.6	29.8	66.2	48.9	0.071	0.115	26.95
3101	2013	793	1,399.1	1,010.8	388.2	65.2	26.0	50.5	49.7	0.065	0.099	25.32
3101	2014	791	1,499.4	1,080.6	418.9	76.9	27.4	44.8	56.2	0.070	0.093	29.14
3101	2015	804	1,519.5	1,083.4	436.1	68.0	26.0	44.1	52.6	0.062	0.089	26.99
3102	2012	960	925.4	707.4	218.1	6.9	6.7	67.7	6.5	0.015	0.105	3.22
3102	2013	978	984.6	762.1	222.5	6.6	6.9	78.1	7.0	0.014	0.112	3.05
3102	2014	985	1,102.1	859.7	242.5	8.8	4.6	75.1	11.6	0.012	0.101	2.96
3102	2015	990	2,362.2	1,746.6	615.6	13.6	5.8	205.0	56.0	0.008	0.149	5.05
3103	2012	83	224.9	160.7	64.2	3.3	1.8	12.1	13.0	0.023	0.157	1.46
3103	2013	94	233.5	203.1	30.4	3.3	2.2	11.4	13.0	0.023	0.120	0.71
3103	2014	106	257.6	198.5	59.2	6.8	2.2	12.4	14.4	0.035	0.135	2.06
3103	2015	112	290.4	205.9	84.5	4.4	2.6	14.2	14.2	0.024	0.138	2.04
3109	2012	3,712	3,481.5	2,455.7	1,025.8	142.4	61.7	193.7	261.0	0.059	0.185	60.13
3109	2013	3,494	3,432.1	2,485.3	946.7	122.9	74.3	187.9	246.6	0.057	0.175	54.40
3109	2014	3,395	3,654.0	2,652.9	1,001.1	114.3	87.0	182.2	260.7	0.055	0.167	55.16
3109	2015	3,401	3,905.8	2,817.2	1,088.6	132.6	103.2	173.0	275.6	0.060	0.159	65.72
3213	2012	79	26.6	20.6	6.0	0.8	1.1	0.0	5.7	0.071	0.278	0.43
3213	2013	90	25.5	19.7	5.8	1.0	0.8	0.0	3.3	0.070	0.168	0.40
3213	2014	107	34.4	33.2	1.3	1.3	1.9	0.0	4.1	0.092	0.124	0.12
3213	2015	119	37.2	28.7	8.4	2.8	4.2	0.0	4.9	0.188	0.169	1.58
3220	2012	217	73.2	48.7	24.6	4.0	7.5	2.2	11.2	0.157	0.275	3.85
3220	2013	234	76.2	50.2	26.0	3.7	7.8	2.4	10.4	0.150	0.255	3.90
3220	2014	235	76.5	51.1	25.4	4.0	7.7	1.8	10.3	0.153	0.235	3.90
3220	2015	238	74.4	51.2	23.2	4.6	9.0	1.3	10.5	0.183	0.231	4.24

3230	2012	469	482.4	387.2	95.2	62.5	17.3	7.6	88.7	0.165	0.249	15.76
3230	2013	526	433.4	308.5	125.0	64.5	20.3	44.0	88.4	0.196	0.429	24.46
3230	2014	564	447.7	321.4	126.4	68.1	19.1	3.9	88.1	0.195	0.286	24.60
3230	2015	612	452.1	326.9	125.2	69.3	20.7	2.1	102.7	0.199	0.321	24.91
3240	2012	515	614.4	451.7	162.7	59.5	38.1	19.8	77.8	0.159	0.216	25.86
3240	2013	508	598.8	443.5	155.3	54.5	38.3	20.9	95.7	0.155	0.263	24.07
3240	2014	535	577.9	426.2	151.7	55.4	37.5	28.0	67.5	0.161	0.224	24.40
3240	2015	559	665.6	494.5	171.1	50.5	40.8	23.0	84.5	0.137	0.217	23.49
3250	2012	1,236	7,899.2	5,354.0	2,545.2	1,246.8	1,390.8	919.7	692.8	0.334	0.301	849.86
3250	2013	1,261	7,798.6	5,440.9	2,357.7	1,339.5	1,398.8	878.8	714.1	0.351	0.293	827.87
3250	2014	1,300	7,746.9	5,571.9	2,174.9	1,364.7	1,345.8	919.2	744.4	0.350	0.299	760.98
3250	2015	1,330	7,824.0	5,783.1	2,040.9	1,381.4	1,381.6	872.7	793.9	0.353	0.288	720.74
3291	2012	39	61.2	40.5	20.7	12.1	3.7	8.2	4.5	0.258	0.315	5.33
3291	2013	43	59.6	40.7	18.9	11.2	4.1	6.8	4.6	0.256	0.282	4.84
3291	2014	44	56.3	40.4	15.9	6.5	3.9	2.5	5.3	0.185	0.192	2.93
3291	2015	46	57.4	43.1	14.3	6.3	4.6	0.7	6.6	0.190	0.171	2.72
3299	2012	7,744	14,219.1	10,424.8	3,794.3	1,722.9	1,432.8	1,510.6	1,330.6	0.222	0.273	842.06
3299	2013	7,229	14,430.2	10,528.7	3,901.5	1,734.1	1,492.1	1,486.6	1,268.4	0.224	0.262	872.27
3299	2014	6,761	14,795.1	10,838.6	3,956.5	1,635.3	1,426.4	1,321.3	1,139.8	0.207	0.227	818.74
3299	2015	6,432	14,952.0	10,788.4	4,163.6	1,622.5	1,462.5	1,068.4	1,208.8	0.206	0.211	859.05
3311	2012	610	122.6	65.8	56.8	0.6	0.8	0.0	0.6	0.012	0.008	0.66
3311	2013	706	167.4	96.1	71.3	1.3	3.7	0.0	1.2	0.030	0.012	2.14
3311	2014	807	213.3	125.7	87.6	3.8	19.9	1.6	3.6	0.111	0.041	9.73
3311	2015	921	267.9	170.5	97.4	4.4	14.3	1.8	4.7	0.070	0.038	6.80
3312	2012	2,465	1,748.5	1,349.3	399.2	112.0	105.9	107.5	67.1	0.125	0.129	49.74
3312	2013	2,866	1,952.6	1,652.1	300.5	115.8	142.0	115.7	65.5	0.132	0.110	39.69
3312	2014	3,307	2,276.1	1,809.4	466.7	124.7	165.0	129.0	76.0	0.127	0.113	59.38
3312	2015	3,666	2,313.1	1,788.6	524.5	121.7	179.5	104.6	84.7	0.130	0.106	68.28
3313	2012	132	43.6	23.4	20.2	0.2	0.5	0.3	1.0	0.016	0.057	0.33
3313	2013	171	54.3	30.0	24.4	0.1	1.4	0.0	1.0	0.026	0.032	0.64
3313	2014	221	89.3	56.2	33.1	0.0	1.9	0.0	2.2	0.021	0.040	0.69
3313	2015	247	122.1	89.3	32.9	1.0	2.9	0.0	4.9	0.032	0.054	1.06
3314	2012	974	1,777.4	1,299.5	477.9	129.3	670.1	162.1	249.5	0.450	0.317	214.94
3314	2013	970	1,606.0	1,194.5	411.6	118.6	573.5	125.1	214.6	0.431	0.284	177.36
3314	2014	955	1,512.6	1,171.7	340.9	111.0	451.1	135.1	225.5	0.372	0.308	126.69

3314	2015	964	1,404.4	1,079.4	325.0	103.3	414.6	123.9	251.6	0.369	0.348	119.86
3315	2012	229	801.0	428.7	372.3	0.4	1.1	2.4	6.6	0.002	0.021	0.67
3315	2013	259	855.9	507.6	348.3	1.0	2.6	11.3	4.8	0.004	0.032	1.44
3315	2014	288	962.8	560.6	402.1	0.7	5.5	3.3	7.7	0.007	0.020	2.62
3315	2015	305	1,022.5	626.9	395.6	1.1	1.4	9.0	5.2	0.002	0.023	0.96
3316	2012	598	237.9	143.8	94.1	1.1	39.2	0.8	67.0	0.169	0.471	15.92
3316	2013	784	324.3	180.1	144.2	9.2	51.9	4.6	98.5	0.189	0.572	27.18
3316	2014	1,129	402.4	261.6	140.9	32.3	70.3	6.4	125.6	0.255	0.505	35.88
3316	2015	1,514	481.6	345.9	135.7	38.4	157.3	11.4	279.6	0.406	0.841	55.15
3317	2012	716	2,121.5	1,441.7	679.8	24.1	37.1	175.6	73.8	0.029	0.173	19.62
3317	2013	774	2,222.1	1,542.7	679.3	17.4	34.4	194.8	83.0	0.023	0.180	15.83
3317	2014	860	2,343.3	1,661.9	681.4	18.2	110.3	217.3	124.3	0.055	0.206	37.36
3317	2015	1,001	2,313.0	1,670.5	642.5	22.0	131.3	173.6	158.1	0.066	0.199	42.58
3319	2012	1,326	285.5	190.1	95.4	8.2	6.7	5.9	24.6	0.052	0.161	4.99
3319	2013	1,212	320.7	226.0	94.8	4.6	12.0	5.5	12.9	0.052	0.081	4.90
3319	2014	1,097	343.4	233.5	109.9	6.7	13.2	4.4	11.2	0.058	0.067	6.36
3319	2015	1,034	367.5	250.5	117.0	4.5	11.3	8.3	12.4	0.043	0.083	5.03
3320	2012	1,318	3,726.9	2,372.5	1,354.5	110.2	171.2	151.8	202.8	0.076	0.149	102.28
3320	2013	1,667	4,007.8	2,375.8	1,632.0	95.4	198.1	219.9	185.9	0.073	0.171	119.51
3320	2014	1,889	4,062.6	2,321.5	1,741.0	101.4	167.0	223.2	184.8	0.066	0.176	115.03
3320	2015	2,112	4,178.5	2,346.7	1,831.8	107.3	237.1	212.3	168.4	0.082	0.162	150.97

Value are in million pounds

6. Conclusions

This paper has outlined a methodology for constructing estimates of the direct domestic value-added component of exports of 4-digit sub-industries within the UK car Industry, as well as other 4-digit sub-industries within the manufacturing sector, as part of a longer project conducted by the Economic Statistics Centre of Excellence (ESCoE), whose aim is to construct more highly disaggregated measures of value-added from trade for key sectors. The methodology uses confidential micro data provided by HMRC. Our analysis allows measuring one important component of domestic value added (direct domestic value added) in a very detailed and up to date way but lacks information on some other components. More comprehensive but less granular estimates of domestic value added are available from the [Input Output tables](#) published by the Office for National Statistics (ONS) and the [Trade in Value Added \(TiVA\) dataset](#) developed by a joint OECD – WTO initiative. We look forward to data collection improvements allowing for a more detailed account of input-output relationships and enabling further refinements our methodology.

ESCoE estimates suggest that £3.93bn of UK car industry exports was value-added generated directly by the firms immediately prior before exporting. The 4 sub-industries comprising the UK car industry we analyse differ substantially in terms of their import and export intensities and our study provides a detailed picture of direct domestic value-added and direct domestic value-added content of exports from such subindustries. Our estimates should be seen as a lower bound for the overall domestic value-added and related overall domestic value-added content of gross exports. Indeed, further value-added is generated via input and output linkages with other sectors of the economy. Furthermore, we also provides a way of measuring direct imports and exports for subindustries belonging to the car industry, while also differentiating between EU28 and non-EU28 countries, thus allowing to gain better insights into the importance of global value chains for specific subindustries and ultimately their sensitiveness/vulnerability to changes in UK and foreign trade policy and/or investment strategies.

References

[Input Output tables](#), Office for National Statistics (ONS)

[Trade in Value Added \(TiVA\) dataset](#), OECD

Pilkington, Jack and Rowe, Jeremy (2017) “Constructing estimates for exports and the value-added from exports of monetary financial institutions in the UK”, ESCoE report.

APPENDIX

SIC code	Description
1011	Processing and preserving of meat
1012	Processing and preserving of poultry meat
1013	Production of meat and poultry meat products
1020	Processing and preserving of fish, crustaceans and molluscs
1031	Processing and preserving of potatoes
1032	Manufacture of fruit and vegetable juice
1039	Other processing and preserving of fruit and vegetables
1041	Manufacture of oils and fats
1042	Manufacture of margarine and similar edible fats
1051	Operation of dairies and cheese making
1052	Manufacture of ice cream
1061	Manufacture of grain mill products
1062	Manufacture of starches and starch products
1071	Manufacture of bread; manufacture of fresh pastry goods and cakes
1072	Manufacture of rusks and biscuits; manufacture of preserved pastry goods and cakes
1073	Manufacture of macaroni, noodles, couscous and similar farinaceous products
1081	Manufacture of sugar
1082	Manufacture of cocoa, chocolate and sugar confectionery
1083	Processing of tea and coffee
1084	Manufacture of condiments and seasonings
1085	Manufacture of prepared meals and dishes
1086	Manufacture of homogenised food preparations and dietetic food
1089	Manufacture of other food products n.e.c.
1091	Manufacture of prepared feeds for farm animals
1092	Manufacture of prepared pet foods
1101	Distilling, rectifying and blending of spirits
1102	Manufacture of wine from grape
1103	Manufacture of cider and other fruit wines
1104	Manufacture of other non-distilled fermented beverages
1105	Manufacture of beer
1106	Manufacture of malt
1107	Manufacture of soft drinks; production of mineral waters and other bottled waters
1310	Preparation and spinning of textile fibres
1320	Weaving of textiles
1330	Finishing of textiles
1391	Manufacture of knitted and crocheted fabrics
1392	Manufacture of made-up textile articles, except apparel
1393	Manufacture of carpets and rugs
1394	Manufacture of cordage, rope, twine and netting
1395	Manufacture of non-wovens and articles made from non-wovens, except apparel
1396	Manufacture of other technical and industrial textiles
1399	Manufacture of other textiles n.e.c.
1411	Manufacture of leather clothes

1412 Manufacture of workwear
 1413 Manufacture of other outerwear
 1414 Manufacture of underwear
 1419 Manufacture of other wearing apparel and accessories
 1420 Manufacture of articles of fur
 1431 Manufacture of knitted and crocheted hosiery
 1439 Manufacture of other knitted and crocheted apparel
 1511 Tanning and dressing of leather; dressing and dyeing of fur
 1512 Manufacture of luggage, handbags and the like, saddlery and harness
 1520 Manufacture of footwear
 1610 Sawmilling and planing of wood
 1621 Manufacture of veneer sheets and wood-based panels
 1622 Manufacture of assembled parquet floors
 1623 Manufacture of other builders' carpentry and joinery
 1624 Manufacture of wooden containers
 Manufacture of other products of wood; manufacture of articles of cork, straw and
 1629 plaiting materials
 1711 Manufacture of pulp
 1712 Manufacture of paper and paperboard
 Manufacture of corrugated paper and paperboard and of containers of paper and
 1721 paperboard
 1722 Manufacture of household and sanitary goods and of toilet requisites
 1723 Manufacture of paper stationery
 1724 Manufacture of wallpaper
 1729 Manufacture of other articles of paper and paperboard
 1811 Printing of newspapers
 1812 Other printing
 1813 Pre-press and pre-media services
 1814 Binding and related services
 1820 Reproduction of recorded media
 1910 Manufacture of coke oven products
 1920 Manufacture of refined petroleum products
 2011 Manufacture of industrial gases
 2012 Manufacture of dyes and pigments
 2013 Manufacture of other inorganic basic chemicals
 2014 Manufacture of other organic basic chemicals
 2015 Manufacture of fertilisers and nitrogen compounds
 2016 Manufacture of plastics in primary forms
 2017 Manufacture of synthetic rubber in primary forms
 2020 Manufacture of pesticides and other agrochemical products
 2030 Manufacture of paints, varnishes and similar coatings, printing ink and mastics
 2041 Manufacture of soap and detergents, cleaning and polishing preparations
 2042 Manufacture of perfumes and toilet preparations
 2051 Manufacture of explosives
 2052 Manufacture of glues
 2053 Manufacture of essential oils
 2059 Manufacture of other chemical products n.e.c.
 2060 Manufacture of man-made fibres

2110	Manufacture of basic pharmaceutical products
2120	Manufacture of pharmaceutical preparations
2211	Manufacture of rubber tyres and tubes; retreading and rebuilding of rubber tyres
2219	Manufacture of other rubber products
2221	Manufacture of plastic plates, sheets, tubes and profiles
2222	Manufacture of plastic packing goods
2223	Manufacture of builders' ware of plastic
2229	Manufacture of other plastic products
2311	Manufacture of flat glass
2312	Shaping and processing of flat glass
2313	Manufacture of hollow glass
2314	Manufacture of glass fibres
2319	Manufacture and processing of other glass, including technical glassware
2320	Manufacture of refractory products
2331	Manufacture of ceramic tiles and flags
2332	Manufacture of bricks, tiles and construction products, in baked clay
2341	Manufacture of ceramic household and ornamental articles
2342	Manufacture of ceramic sanitary fixtures
2343	Manufacture of ceramic insulators and insulating fittings
2344	Manufacture of other technical ceramic products
2349	Manufacture of other ceramic products
2351	Manufacture of cement
2352	Manufacture of lime and plaster
2361	Manufacture of concrete products for construction purposes
2362	Manufacture of plaster products for construction purposes
2363	Manufacture of ready-mixed concrete
2364	Manufacture of mortars
2365	Manufacture of fibre cement
2369	Manufacture of other articles of concrete, plaster and cement
2370	Cutting, shaping and finishing of stone
2391	Production of abrasive products
2399	Manufacture of other non-metallic mineral products n.e.c.
2410	Manufacture of basic iron and steel and of ferro-alloys
2420	Manufacture of tubes, pipes, hollow profiles and related fittings, of steel
2431	Cold drawing of bars
2432	Cold rolling of narrow strip
2433	Cold forming or folding
2434	Cold drawing of wire
2441	Precious metals production
2442	Aluminium production
2443	Lead, zinc and tin production
2444	Copper production
2445	Other non-ferrous metal production
2446	Processing of nuclear fuel
2451	Casting of iron
2452	Casting of steel
2453	Casting of light metals
2454	Casting of other non-ferrous metals

2511 Manufacture of metal structures and parts of structures
 2512 Manufacture of doors and windows of metal
 2521 Manufacture of central heating radiators and boilers
 2529 Manufacture of other tanks, reservoirs and containers of metal
 2530 Manufacture of steam generators, except central heating hot water boilers
 2540 Manufacture of weapons and ammunition
 2550 Forging, pressing, stamping and roll-forming of metal; powder metallurgy
 2561 Treatment and coating of metals
 2562 Machining
 2571 Manufacture of cutlery
 2572 Manufacture of locks and hinges
 2573 Manufacture of tools
 2591 Manufacture of steel drums and similar containers
 2592 Manufacture of light metal packaging
 2593 Manufacture of wire products, chain and springs
 2594 Manufacture of fasteners and screw machine products
 2599 Manufacture of other fabricated metal products n.e.c.
 2611 Manufacture of electronic components
 2612 Manufacture of loaded electronic boards
 2620 Manufacture of computers and peripheral equipment
 2630 Manufacture of communication equipment
 2640 Manufacture of consumer electronics
 2651 Manufacture of instruments and appliances for measuring, testing and navigation
 2652 Manufacture of watches and clocks
 2660 Manufacture of irradiation, electromedical and electrotherapeutic equipment
 2670 Manufacture of optical instruments and photographic equipment
 2680 Manufacture of magnetic and optical media
 2711 Manufacture of electric motors, generators and transformers
 2712 Manufacture of electricity distribution and control apparatus
 2720 Manufacture of batteries and accumulators
 2731 Manufacture of fibre optic cables
 2732 Manufacture of other electronic and electric wires and cables
 2733 Manufacture of wiring devices
 2740 Manufacture of electric lighting equipment
 2751 Manufacture of electric domestic appliances
 2752 Manufacture of non-electric domestic appliances
 2790 Manufacture of other electrical equipment
 2811 Manufacture of engines and turbines, except aircraft, vehicle and cycle engines
 2812 Manufacture of fluid power equipment
 2813 Manufacture of other pumps and compressors
 2814 Manufacture of other taps and valves
 2815 Manufacture of bearings, gears, gearing and driving elements
 2821 Manufacture of ovens, furnaces and furnace burners
 2822 Manufacture of lifting and handling equipment
 2823 Manufacture of office machinery and equipment (except computers and peripheral equipment)
 2824 Manufacture of power-driven hand tools
 2825 Manufacture of non-domestic cooling and ventilation equipment

2829 Manufacture of other general-purpose machinery n.e.c.
 2830 Manufacture of agricultural and forestry machinery
 2841 Manufacture of metal forming machinery
 2849 Manufacture of other machine tools
 2891 Manufacture of machinery for metallurgy
 2892 Manufacture of machinery for mining, quarrying and construction
 2893 Manufacture of machinery for food, beverage and tobacco processing
 2894 Manufacture of machinery for textile, apparel and leather production
 2895 Manufacture of machinery for paper and paperboard production
 2896 Manufacture of plastics and rubber machinery
 2899 Manufacture of other special-purpose machinery n.e.c.
 2910 Manufacture of motor vehicles
 Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and
 2920 semi-trailers
 2931 Manufacture of electrical and electronic equipment for motor vehicles
 2932 Manufacture of other parts and accessories for motor vehicles
 3011 Building of ships and floating structures
 3012 Building of pleasure and sporting boats
 3020 Manufacture of railway locomotives and rolling stock
 3030 Manufacture of air and spacecraft and related machinery
 3040 Manufacture of military fighting vehicles
 3091 Manufacture of motorcycles
 3092 Manufacture of bicycles and invalid carriages
 3099 Manufacture of other transport equipment n.e.c.
 3101 Manufacture of office and shop furniture
 3102 Manufacture of kitchen furniture
 3103 Manufacture of mattresses
 3109 Manufacture of other furniture
 3211 Striking of coins
 3212 Manufacture of jewellery and related articles
 3213 Manufacture of imitation jewellery and related articles
 3220 Manufacture of musical instruments
 3230 Manufacture of sports goods
 3240 Manufacture of games and toys
 3250 Manufacture of medical and dental instruments and supplies
 3291 Manufacture of brooms and brushes
 3299 Other manufacturing n.e.c.
 3311 Repair of fabricated metal products
 3312 Repair of machinery
 3313 Repair of electronic and optical equipment
 3314 Repair of electrical equipment
 3315 Repair and maintenance of ships and boats
 3316 Repair and maintenance of aircraft and spacecraft
 3317 Repair and maintenance of other transport equipment
 3319 Repair of other equipment
 3320 Installation of industrial machinery and equipment
 3511 Production of electricity
 3512 Transmission of electricity

3513 Distribution of electricity
3514 Trade of electricity
3521 Manufacture of gas
3522 Distribution of gaseous fuels through mains
3523 Trade of gas through mains
3530 Steam and air conditioning supply