# Analysis Journal—RAC Parking Report Automation

mz

# Saturday 9.3.2019

- Initialised public github repo.
- Setup folder structure, currenlty looks like this (output of tree --charset=ascii -d):

```
|-- code

|-- data

| |-- 01-raw

| |-- 02-interim

| `-- 03-processed

|-- docs

| |-- admin

| |-- journal

| `-- original-reports

|-- figures

`-- outputs

|-- instructions

|-- reports

`-- technical-appendix
```

• available reports used for development, downloaded from RAC press website, pdfs stored in /docs/original-reports, see appendix for full table

Next steps: find data

# Thursday 14.3.2019

- Look through back reports available, saving all and saving links here, in appendix 1
- Start query file for Ivo.
- OK, got all reports, despite missing years, it looks like most of the data is included in other reports as they have a window of usually 4 years previous that they include data for.
- Now figure out data sources for England, and detail them
- Outline typical England report

# England data requirements and availability?

• 2017/18 uses "MHCLG tables on parking income and expenditure"

This looks like the data https://www.gov.uk/government/collections/local-authority-revenue-expenditure-and-financing.

- For each year there is normally budget, provisional outturn and outturn data, the latter needs to be for individual local authorities, which does not seem to exist for 2007/08, but is available for all other years.
- The files are grouped under the title Local authority revenue expenditure and financing England: 2010 to 2011 individual local authority data outturn for each year

- The relevant Excel file is usually called Revenue outturn RO2 (highways and transport services) + year.xls.
- There are three columns we are interested in: expenditures, incomes and capital charges, these are usually on separate sheets. There is one of these for both on street and off street parking. So that's 6 columns in total.
- There are also summaries, but I don't need them, maybe only for manually double-checking.
- Appendix 2 lists all the files, their links, the number or rows (local authorities) in the table and the sheets on which the data can be found.
- TODO Add the starting row and the actual columns where the data in question can be found and I can write a function to extract the data automatically.
- Download all .xls files to /data/raw
- "Earlier, councils also submitted budgets for the 2018-19financial year but on a less detailed basis." where are these budgets? Do I need to include them as well? Ah, yes.
- At one point the England data stops including capital charges..2013/14 is last one. This means current reports are less data rich, and if I stick to the brief, it means that the code won't be able to replicate the old reports.
- At one point the Englad data starts including penalty charges for individual Local authorities, although the reports don't do anything special with that, just use the aggregates.
- England totals do not include the national parks and the Nottingham levy. Not sure what to do with that!?

# Friday 15.3.2019

- OK, so England outturn data is tabled in Appendix 2.
- Now England Budget data
  - not in Local authority revenue expenditure and financing tables
  - under Budget estimates of local authority revenue expenditure and financing for the financial year the table Revenue account budget (RA) has the parking surplus down as 792, but the report says 782. There have been a few other differences, not sure if these are typos/errors?
- download data into \data\raw and fill out appendix two table with relevant info.
- careful because at one point there are capital charges and then not. So make sure you've got the correct column. Because these are sums, I would even set up a check?
- OK, England budget files are all saved and relevant info extracted manually.
- Now back to outlining the England report as it stands.
- E17/18 says national park surplus is 1.7 million, sum of cells DF405:411 is 1.774.
- Comparing Table 1 for E17/18 to excel file 17/18:
  - on street parking is all the same
  - off street parking: there is a discrepancy. Income is the same, but Leibling's expenditure value is higher than the Excel one (making the surplus lower): 362 vs 356?!

# Saturday 16.3.2019

- Comparing Table 1 for E17/18 to excel file 16/17
  - on street parking is all the same
  - off street parking: there is a discrepancy. Leibling's income is 693 vs 689 in the table, and Leibling's expenditures are are 349 vs 343 in the table.

- Comparing Table 1 for E17/18 to excel file 15/16
  - on street parking is all the same
  - off street parking: there is a discrepancy. Leibling's income is 670 vs 674 in the table, and Leibling's expenditures are are 340 vs 337 in the table.
- Trying to figure out where these discrepancies come from: It must be the nottingham workplace levy?
   Which I don't have data for.
- Second thing, presumably the difference is also due to not including the national parks. Although I have the data for that, I cannot confirm, because I don't know the levy numbers.
- TODO write (find) a funtion to convert excel column names to column numbers.
- Oh, congestion charge data needs to be read as well, that's in a different couple of cells than what i've been looking at until now, so add that to the appendix.

# Monday 18.3.2019

- Clean up queries for Ivo for England.
- Look at Scotland data. 2015/16 is the last year with a report but the data on [this link](https://www2.gov.scot/Topics/Statistics/Browse/Local-Government-Finance/PubScottishLGFStats] seems to go to 2016/17
- I'm looking at Annex A by LA excel files, which have LA level data.
- OK, so data checking: compare surplusses in individual sheets of sco-15-16.xlss with table 9, parking surpluses in report 15/16.
  - Edinburg is same, so is Glasgow, Dundee, Renfrewshire, Fife, South Lank, East Ayr, Highland,
     Argyle, Aberdeenshire, Angus, South Ary, Moray, Perth, Stirling,
  - Aberdeen city is 4.89 vs 0?
  - If I add Aberdeen city form Leibling to the Excel totals get the Leibling totals for Surplus.OK
- But if I add the Aberdeen city incomes to the Excel ones, it's still not enough. And same for expenditures... So there is another LA that has a discrepancy.
  - Clackmanshire discrepancy: .014 -> .02, but that's minor, could be poor rounding. + South Ayershire discrepancy: .0 -> .80
  - And of course Aberdeen city:  $.0 \rightarrow 9.20$
  - This fixes the total income discrepancies.
- OK, now for the expenditure discrepancies:
  - Aberdeen city:  $0 \rightarrow 4.32$
  - South Ayershire expenditure discrepancy: -.327 -> .470
  - ANd these now also add up.
- Start Scotish data query file for Ivo
- Start outline of Scotland report based on newly discovered 16/17 report
- Penalty notice charge data is apparently out of a scanned pdf in 2015/16.... And 16/18 data in a regular pdf. But perhaps the tabulizer package could help me out? Unfortunately there are some sort of java issues in installing the package...
- solved issue using this link, installed rJava, but first had to also run sudo R CMD javareconf. This is
  presumably only an ubuntu issue, so should work fine on Windows. \* Tried tabulizer on the 17/18 pdf
  and it works!

## PNC data

Decriminalised Parking Enforcement - Local Authorities - Income and Expenditure

- pdf's exist for 2016/17 and 2017/18. Additionally a scanned pdf exists for 2013/14/15/16. All have:
  - a table of which LAs are doing DPE, and which are considering it etc, this is in the report

- a table of PNC incomes. However this last table also has other incomes and expenditures in it, so you'd think it would match with the gov.sco data in the Excel tables, but it doesn't. SOme are quite close, e.g. Glasgow, but others not.
- Added table of PCN data to the appendix, created table to summarise the sources.

# Tuesday 19.3.2019

- Found the 16/17 scotland files, they're not under press, but under publications...
- Add them to app1
- Actually clean up the data source tables and move them to code, these are manual data entry files.
- Saving the tables into rds? Probably, it is serialised, and as opposed to csv it retains the data types. Let's me cleanly load individual objects and assign then names, and there's no danger of overwriting an object of the same name. But is not human readable.
- This also involves using here::here() to load the data in the child .rmd documents for the appendices.
- mapping England: OK, so the data is for 353 "local authorities", or are they actually "councils"? Shapefiles seem to have 326 shapes. Wikipedia says there are 27 county and 201 district councils, which cover the same physical area. plus 55 UAs, 36 met burroughs and 32 London ones, plus the city, plus scilly. But they overlap..
- SO e.g. you have Oxford council and Oxfodshire council. The first only does off street parking, while the county one does both. Do I add them up? If I want to map them I have to. But in the tables are they separate?
- OK, found lookup table for counties and districts, that will be useful!
- There are counties in the lookup table that are not county councils though, these eight: Greater Manchester, Inner London, Merseyside, Northamptonshire, Outer London, Tyne and Wear, West Midlands, West Yorkshire.
- Download UK map shapefile: Local Administrative Units Level 1 (January 2018) Super Generalised Clipped Boundaries in United Kingdom this link
- install sf package.
- Get basic maps to work, hooray.
- Probably want ultra generalised, this is too fine. Yeah.
- OK, now back to outlining Scotland data.
- OK, so there is crossover in the scottish report, and requires picking up data from the other two reports...
- Check conditional formatting of tables that work in pdf. condformat might work. Do they want it?
- Actually cell\_spec in kableExtra probably does the trick see here.
- OK, now queries for Ivo.
- I also now have a much better oveview of how much manual tweaking the reports will require (not too much), so I have the idea of highlighting all the spots that need a manual double check (e.g. in red) so that nothing like that gets accidentally published.

<sup>\*</sup>Todo: outline scotland data.

Add the four Nottingham workplace levy files to data. Need to try if extracting the tables works there
as well.

# Wednesday 20.3.2019

- OUTLINE the whole project scheme.
- Try extracting the WPL data. No, it doens't work. There are two other tables on the page and this table is too small I guess, or sth, so it will have to be manually input.
- Actually, I need to have a look at Wales quickly before I do this. For 2017/18
- OK, summary looks cool: income, expenditure and total transport as well, all match
- Participation in the Wales Penalty Processing Partnership and councils where "on-street parking controlled by Gwent Police who are planning to transfer it to the councils" probably requires an external source, this is in a map legend.
- Population data is available on same platform on this link
- There is additional penalty charge notice data, but that seems to be two years behind i.e. the 17/18 report has data for 15/16
- source for PCNs is here
- Unfortunately tabulizer does not extract the tables properly.
- meanwhile have a look at importing json objects..
- OK, so figured out how to extract the json file, and even the table, but that's only the first 1000 records. In order to get what I want I need to query it.
- hmm, ok, massive issues with from JSON giving different results each time. If i don't figure it out, then it will have to me manual downloading of csv files. Not the worst thing in the world, it's still probably better than the ENgland and Scotland data..

# Thursday, 21.3.2019

- created json-reprex.Rmd file, tested by Anneka and Martin as well, all get same non-deterministic results. Posted on rstudio community, tomorrow will crosspost on stackoverflow if there isn't any solution.
- OK, start Wales outline including replies from Ivo.
- worry about tables being too large. this stackoverflow answer seems useful
- OK, Wales outline complete.
- Now back to plotting out the whole thing.
- Download Wales data. csvs directly from the wales stats website.
- cross-post the question to stackoverlfow

**Downloading Wales Data** \* Export to .csv, without headers, without metadata! \* Gross Expenditure X Parking of vehicles -> wal-exp-17-18.csv link \* Total Income X Parking of vehicles -> wal-inc-17-18.csv link \* Net current cost X Total transport planning, highways, rows and transport -> wal-trans-17-18.csv link

#### Wales (based on 17/18)

#### 1. Introduction

- Text, only fiscal year
- Text with named councils that have free parking, manual input.

#### 2. Summary

• Table 1 based on Wales statistics data, all checks out

- Text based on table 1
- Crossover value from England report.
- Figure 1 from table 1
- Map, is a map, but potentially unnecessary.

#### 3. Income (there is no separate section?)

- text based on table 2,
- Some conditionals.
- Sentence on proportion of the population. Do I have to get the data for that?
- Paragraph on income per population removed, since data also removed.
- Table 2, data from Wales statistics data, ignore the population measures, cf Ivo: it is a meaningless measure

#### **3.1 PNCs**

This data is massively time lagged, Ivo suggested removing it?

### 4. Expenditures

- Text based on table 4, some conditionals too much for automation
- Table 4 based on Wales stats data.

## 5. Surpluses

- Table based on Tables 3 and 4
- Text based on table
- Some text has explanations for the reducitons/increases that are too tricky to write conditionally. But could potentially be done.

#### 6. reporting

• Non automatable, can leave skeleton text/table if required.

# Scotland (based on 16/17)

- Mainly pure text chunk.
- Available data: fiscal year, link to income and expenditure data, link to PNC data, link to SPRECC report with previous data.
- Paragraph on data availability on Penalty Charne Notices, incl. source, which is a scanned pdf...

#### 1. Introduction

#### Text

• Text based on table 1. Conditional tree could get complicated as the table becomes simpler, but can make it simple I think.

## Table 1

• exact same table as in pcn.pdf, can be extracted directly from pdf and cleaned up.

#### Text

• Pure text

#### 2. Summary

#### Text

• based on table 2. Conditoinal tree must be able to describe temporal trend..

## Table 2

- Based on first summary sheet in Scotland income and expenditure data files. But it is inconsistent, partially because of Aberdeen, but something else is also going on..
- Based also on total transport expenditure from same sheet, but numbers don't match. #### Figure 1
- Based on Table 2, OK

#### Table 3

• Based on summary data in table 2, BUT also data for England and Wales, which historically is already available by the time Scotland's report is due.

#### Table 4

• Again, crossover with other two countries, additionally this one is 12/13 to 16/17, not sure what to do next window wise.

#### Text

• Based on calculation based on data used in table 4.

#### 3. Income

#### Text

• Based on data in table 5

#### Table 5

- Based on data in income and expendidure files, except for Aberdeen City.. And possibly some other local authorities?
- Also includes data from Table 1, i.e. the pdf scraped table.

#### Text

• Text based on table 6.

#### Table 6

- NUmbers of PNCs are from the table scraped in the pdf.
- Additionally the calculated average cost of a PNC is from the income table also scraped from the PNC.
- 3 year window in 16/17

#### Text

• Based on numbers in table 7

#### Table 7

- Proportions calculated from PCN data in pdf, and income data from xls.
- Except for Aberdeen..
- Including crossover with England data

## 4. Expenditure

#### Text

• Text based on table 8, potentially tricky conditional tree...

#### Table 8

- Expenditure data from excel files only.
- Proportion calculated from income also from xls files.
- Additionally DPE in operaction data from first scraped table from pdf.

# 5. Surpluses

# Text

- Text based on nice conditional tree from table 9
- Also national ranking!!

## Table 9

- Surplus data calculated from incomes and expenditures in xls
- · changes also.
- again DPE data drom table 1 in the pdf

#### Table 10

- Contribution of surplus towards total transport expenditure.
- OK, but which one is the total transport expenditure!?

# 6 Comparison between Local Government Finance figures and Transport Scotland decriminalised parking enforcement figures

- OOh, interesting! But should it really be in this report, haha
- So combine data from xls and pdf and look at discrepancies, which should be mainly off street parking, but maybe are not just that.

## **Appendix**

• Map based on Table 1

## **England**

#### 1. Introduction

- Mainly pure text chunk.
- Available data: fisc.year
- Missing data: national parks, Notthingham workplace parking levy? (17/18)

# 2. Summary

## Table 1 - Parking income and expenditure England

- Unit: whole country
- Available data:
  - Off-street: expenditures (sum from LA tables)
  - Off-street: incomes (sum from LA tables)
  - On-street: expenditures (sum from LA tables)
  - On-street: incomes (sum from LA tables)
  - On-street: penalties single cell on summary sheet
  - Net expenditure on transport single cell on summary sheet
  - Budget estimates for next year
- That's all, everything else is calculated from this

#### Text

• Conditional tree based on data from Table 1.

# Figure 1

• Simple line chart based on data from Table 1.

#### Table 2

• Data from Table 1 for current year, split by London and non-London.

#### Text

• Conditional tree based on data from Table 2.

#### 3. Income

#### Text

- Conditional tree based on data from Tables 1 and 2
- Includes footnote on penalty tarrifs.

# 4. Expenditure

#### Text

• Conditional tree based on data from Tables 1 and 2

# 5. Surpluses

#### Text

- Conditional tree based on data from Tables 1 and 2
- Additionally there is the total for on national parks, that data is also available
- Missing data: the total for Nottingham workplace levy.

#### Table 3a surpluses for London councils

• Individual LA data for 33 London councils

### Table 3b surpluses for top 20 non London councils

• Individual LA data for 33 London councils

#### Text

• Conditional tree based on data from Tables 3a and 3b

## 6. Comparison with budgets for 2017-18 and 2018-19

• Conditional text based on comparison of indovidual LA surpluses with individual LA budgets

#### 7. Congestion charge

#### Text

• Conditional text based on table below

#### **Table**

• Simple table based on data from outturn table.

#### Appendix 1

• Table of all LA surpluses for 5 years, alphabetical

#### Appendix 2

- Table of all LA surpluses for 5 years, by surplus size.
- link https://statswales.gov.wales/Catalogue/Local-Government/Finance/Revenue/Transport/RoadsAndTransportRevenue/Devenue/Transport/RoadsAndTransportRevenue/Devenue/Transport/RoadsAndTransportRevenue/Devenu

Appendix 1

# links to all reports online

2010/11   link   link   2(4)						_
England Englan	country	year	htmls	pdfs	tab	window
England   2012/13   link   link   link   3(5)   2013/14   link   link   link   4   2014/15   link*   link   link   4   2016/17   link   link   link   4   2017/18   link   link   link   4   2011/12   link   link   link   1   2012/13   2013/14   link   link   4   2016/17   link   link   3   2016/17   link   link   4   2016/17   link   link   4   2016/17   link   link   4   2011/18     2011/12     2011/12     2011/12     2011/12     2011/12     2011/12     2011/12     2011/13   link   link   5   2013/14     2011/14     2011/15   link   link   5   2013/14     2011/15   link   link   5   2013/14     2011/15   link   link   4   2016/17   link   link   2016/17   link   link   4   2016/17   link   link   2016/17   link   link   4   2016/17   link   link   2016/17   link   link   2016/17   link   link   4   2016/17   link   link   2016/17   link   2016/17		2010/11	link		link	
England    2013/14   link   link   <- 4		2011/12	link	link	link	2(4)
England    2014/15		2012/13	link	link	link	3(5)
England    2015/16   link   link   link   4		2013/14	link	link	<-	4
2015/16 link link link 4 2016/17 link link link 4 2017/18 link link link 4 2010/11 2011/12 link link 1 2012/13 2013/14 link link 3 2014/15 link link 4 2016/17 link link 4 2017/18 2011/12 2011/12 2011/12 2011/12 2011/12 2011/12 2011/12 2011/14 2011/15 link link 5 2013/14 Wales  2014/15 2016/17 link link 5 2013/14  Under State of the second seco	England	2014/15	$link^*$	link	link	4
	England	2015/16	link	link	link	4
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		2016/17	link	link	link	4
		2017/18	link	link	link	4
		2010/11				
		2011/12	link	link		1
		2012/13				
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2017/18 link link 4		2016/17	link	link		4
2011/10 IIIK IIIK 4		2017/18	link	link		4

 $<sup>\</sup>boldsymbol{*}$  link missing from RAC press releases page

# Columns headings:

- country
- year-period covered in report
- $\bullet$  html-link to press release on RAC website
- $\bullet$  pdf-link to pdf report if exists
- $\bullet$  window –number of previous years' data included in report, number in brackets is for aggregates, not at LA level

# Appendix 2

# data overview - England

# England-Outturn

year	link	rows	las	first	e.sh	e.on	e.off	i.sh	i.on	i.off	pen.sh	pen.on	pen.1	tot.1
2008/09	xls	405	388	0	3	CU	DB	3	CX	DE	NA	_	G64	J45
2009/10	xls	370	353	0	3	ВН	BL	4	ВН	BL	NA	_	G64	J45
2010/11	xls	371	353	0	3	ВН	BL	4	BH	BL	NA	_	G64	J45
2011/12	xls	371	353	0	3	ВН	BL	4	ВН	BL	NA	_	G64	J45
2012/13	xls	371	353	12	3	ВН	BL	4	ВН	BL	NA	_	G65	J46
2013/14	xls	371	353	12	3	ВН	BL	4	BH	BL	NA	_	G65	J46
2014/15	xls	371	353	12	3	BE	BI	4	BE	BI	NA	_	I68	L49
2015/16	xlsx	444	353	8	3	CU	DB	3	CX	DE	3	FX	H67	K48
2016/17	xlsx	446	353	8	3	CU	DB	3	CX	DE	3	FX	H67	K48
2017/18	xlsx	445	353	8	3	CU	DB	3	CX	DE	3	FX	H67	K48

- year-period covered in report
- link-link to data file
- rows-number of rows (not all are local authorities though!)
- las-number of local authorities (i.e. not ones with class "O"
- first-first row of data on sheets 3,4 and 5
- $\bullet$  e.sh-which sheet are expenditures on
- e.on—which column on street expenditures
- $\bullet \ \ \textit{e.off}\text{--which column are off street expenditures}$
- e.cc—which column are congestion charge expenditures on (row = Greater London Authority)
- *i.sh*—which sheet are incomes on
- *i.on*—which column on street incomes
- *i.off*—which column are off street incomes
- *i.cc*—which column are congestion charge incomes on (row = Greater London Authority)
- pen.sh-which sheet are penalty charge incomes for LAs on
- pen.on-which column are penalty charge incomes for LAs
- pen.1—which cell is the total Penalty charge notice income for on street parking data on in sheet 2
- tot.1—which cell is the Net current expenditures for Total transport and Highways services on in sheet 2

# England-Budget

year	link	rows	first	las	budg.tot	budg.la
2008/09		0	0	0	-	-
2009/10		0	0	0	-	-
2010/11	xls	444	10	353	E27	U
2011/12	xls	444	10	353	E28	V
2012/13	xls	444	10	353	E28	V
2013/14	xls	444	10	353	E28	V
2014/15	xls	444	9	353	F34	U
2015/16	xls	444	9	353	F34	U
2016/17	xlsx	443	8	353	E35	U
2017/18	xlsx	446	8	353	E35	V
2018/19	xlsx	443	8	353	E35	V

- year-period covered in report
- link-link to data file
- $\bullet$  rows—number of local authorities
- ullet budg.tot-wich cell on sheet 2 is the total budgeted surplus in
- $\bullet$  budg.la—which column on sheet 3 are the LA parking budgeted surpluses on

# England-Nottingham WPL

year	link	page
2014/15	link	69
2015/16	link	79
2016/17	link	84
2017/18	link	86

- $\bullet$  year-period covered in report
- *link*-link to data file
- rows—number of local authorities
- ullet budg.tot-wich cell on sheet 2 is the total budgeted surplus in
- budg.la—which column on sheet 3 are the LA parking budgeted surpluses on

# Appendix 2

# data overview - Scotland

year	report	file.name	link	start.sh	end.sh	exp.cell	inc.cell	t.exp.cell	t.inc.cell
2011/12	yes		_	NA	NA	-	-	-	-
2012/13	_	Annex A	xlsx	0	0	F57	G57	F50	G50
2013/14	yes	Annex A	xlsx	2	33	F40	G40	F33	G33
2014/15	yes	Annex A	xlsx	2	33	E40	F40	E33	F33
2015/16	yes	Annex A	xlsx	2	33	B41	C41	B34	C34
2016/17	_	Annex A	xlsx	2	33	B41	C41	B34	C34
2017/18	-	LFR 05	xlsx	3	34	L13	L23	U13	U23

- year-period covered in report
- report—does the report exist for this year?
- file.name-name on link to file on the website
- *link*-link to data file
- start.sh-number of first sheet with LA data
- end.sh-number of last sheet with LA data
- exp.cell-cell with expenditure data
- inc.cell-cell with income data
- t.exp.cell-total expenditure for all transport and roads cell
- $\bullet$  t.exp.cell—total income for all transport and roads cell

## DPE and PNC data

year	file.type	link	dpe.tab	pcn.tab	e.i.tab
2011/12	_	_	NA	NA	NA
2012/13	_	_	NA	NA	NA
2013/14/15/16	scan	pdf	NA	NA	NA
2016/17	pdf	pdf	2	3	4
2017/18	pdf	pdf	2	3	4

- $\bullet$  year-period covered in report
- report-does the report exist for this year?
- file.name-name on link to file on the website
- link-link to data file
- dpe.tab—which table (including the table of contents) contains the table of LAs that have/haven't DPE
- pcn.tab—which table (including the table of contents) contains data on no of PCNs issued
- i.e.tab—which table (including the table of contents) contains data on incomes and expenditures of DPE LAs