**Website Compilation Documentation**

***Dashboard Construction***

1. Import Accept Records, Counties Import and Location Co-ordinates to Tableau and relate them with foreign keys in other tables.

**Map**

1. Add Species to Filter
2. Go to Map > Background Layers in top tab
3. Check Base, Terrain and Coastline and leave all others blank, select normal theme and then Exit
4. Drag Longitude to Columns and Latitude to Rows, then CNTD(Record No.) to Size, and MAX(Year of Discovery) and ATTR(Recording Area) to tooltip
5. Select red for Colour
6. Edit tooltip to show:

**<ATTR(Recording Area)>**

**Number of Records:** <CNTD(Record No.)>

**Most Recent Record:** <MAX(Year of Discovery)>

1. Change tooltip title font to Arial Black 13 and other font to Arial Size 10
2. Change chart title font to Arial Black 16

**Year Graph**

1. Add Species and Subset to filter, selecting ‘A’ and ‘NULL’ for Subset
2. Drag YEAR(Date of Discovery) into Columns and CNTD(Record No.) to Rows
3. Change YEAR(Date of Discovery) to Discrete
4. Check ‘Show Missing Values’ under ‘YEAR(Date of Discovery)’
5. Change bar colour to red
6. Change row line format: grid lines None, zero lines None, axis rulers thickness 1, colour third option down in black column
7. Change column line format: grid lines thickness 1, colour black; axis rulers None, zero lines None
8. Delete tooltip text
9. Change chart title to ‘Records by Year’
10. Change y axis field label to Number of Records, Arial, bold size 10
11. Change x axis font to Arial, black colour, size 10
12. Hide field labels for columns

**Length of Stay Graph**

1. Add Species to the filter and remove any abnormal values manually (if needed)
2. Drag Stay Length into Columns and CNT(Record No.) to Rows
3. Paste formatting from Year Graph
4. Change plot title and font according to prior guidelines

**Records by Arrival Week**

1. Add Species to the filter
2. Drag Date of Discovery to Columns and CNTD(Record No.) to Rows
3. Change Date of Discovery from YEAR to WEEK and from Continuous to Discrete. Also tick Show Missing Values.
4. Paste formatting from prior graphs, change title and title font accordingly

**Pie Charts**

1. Add Species to filters
2. Add Sex/Age to Columns and Record No. to Rows
3. Change chart to Pie Chart under Show Me tab
4. Change angle and size measures from SUM to CNTD(Record No.)
5. Add Sex/Age and CNTD(Record No.) to the Label Mark
6. Change alias of labels in legend to appropriate values
7. Change colours to red (sex) or orange-gold (age) colour scheme
8. Repeat for other variable

**Dashboard Construction**

1. Set sizing to 1366 width x 1400 height
2. Drag a vertical container and then a horizontal container to the sheet
3. Add the Map to the sheet
4. Add a vertical container to the right hand side of the Map
5. Add Gender and then Age pie charts, and resize if necessary
6. Add horizontal container and then vertical container to the bottom of the panel
7. Add Records by Year and then Records by Arrival Week to the vertical container
8. Add Record Stay Length to right hand side of bar graph panel
9. Save dashboard to Tableau Public

***Page Construction***

1. Leave title blank
2. Add Column block and then Stack block on left hand side of column
3. Add image on right hand side, add caption (Photo taken by A at B site, C county, D date) and align to middle and centre
4. Add two headings – English name heading 2, scientific name italicised heading 3
5. Paste table from American Robin page below the headings in the Stack
6. Below the Columns, without a spacer, add custom HTML block
7. Paste embed code from Tableau Public dashboard and preview
8. Add two-strong Column block below the HTML dashboard after a Spacer

SELECT years.discovery\_year, COUNT(DISTINCT records.record) AS record\_count

from (SELECT DISTINCT discovery\_year from records) as years

LEFT JOIN records on years.discovery\_year = records.discovery\_year

AND(records.subset IS NULL or records.subset = 'A')

AND records.id = 'AMROB'

GROUP BY years.discovery\_year

SELECT records.discovery, sites.lat as lat, sites.long as long

from records

inner join sites on records.site = sites.site

where records.id = 'AMROB'

ornistats package

* yearlyForecastDiff
* yearlyForecastBoxCox
* speciesStats