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## Overview

FL-FWC provided summary data to Southwick Associates (SA) in July 2019 for use in AFWA’s national/regional dashboard initiative. SA applied a number of adjustments for presentation of the dashboard at the AFWA conference in September of 2019.

## License Data Corrections

For any future iterations, FL-FWC will likely want to address two points regarding license data that was used as a basis for the summary results:

* Artifact in hunting data, beginning in 2015:
  + A large spike appears in hunting data in 2015 (especially for those age 55-64). This is an “artifact” in that it doesn’t represent a real increase in hunting participation. Based on previous work with FL-FWC, SA analysts have found that excluding disabled license types (IDs = 546, 547, 548) should remove this artifact. We recommend applying this adjustment for future iterations.
  + For the current iteration, SA has smoothed out the data artifact based on linear trends. The effect of this smoothing can be seen by comparing results on pages 2 and 3 of this document.
* Calendar or fiscal year?:
  + It appears that FL-FWC may have used fiscal year (July 1 through June 30) as the unit of summary. For consistency with other states, a calendar year should be used for summaries in national/regional dashboards.
  + It is okay to leave as is for this iteration: choosing fiscal or calendar year will likely have a small effect on the results.

## Summary Data Corrections

Several minor corrections were needed to bring FL-supplied metrics in-line with SA specifications:

* Churn: 2 adjustments
  + Shifted one year forward (for example: churn in 2018 represents the proportion of 2017 license holders who did not hold a license in 2018).
  + Specified as churn rate, rather than renewal rate as supplied by FL-FWC (for example: a hunting renewal rate of 60% represents a churn rate of 40%)
* Segment breakouts (e.g., Male/Female):
  + These were scaled up (where necessary) to ensure that the sum of all categories is equal to the total. This is needed when missing values exist in categories.

## Future Iterations

SA has recently prepared a template workflow to aid state agencies in preparing summary data for the national/regional dashboards. We recommend this approach if FL-FWC has analysts on staff comfortable with the R programming language:

* <https://github.com/southwick-associates/dashboard-template>

## Hunting Full-Year Summary Data (with summary data corrections applied by Southwick)

A data artifact shows up in 2015. This is particularly visible in the 55-64 age breakout.

A picture containing cargo container

Description automatically generated

## Hunting Full-Year Summary Data (with both summary and license data corrections applied by Southwick)

Smoothing (using linear trends) was applied to remove data artifacts. Smoothing was also applied for 2019 mid-year results, with similar outcomes.

A picture containing cargo container

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