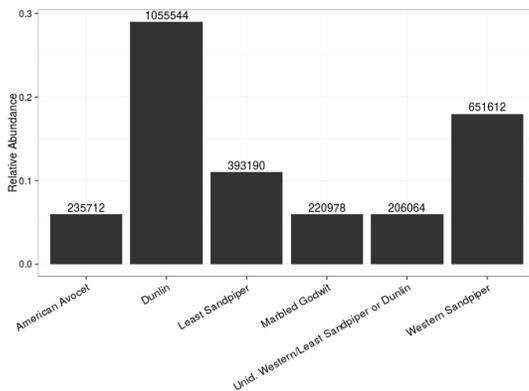


## Pacific Flyway Shorebird Survey – Update July 2020

Point Blue Conservation Science would like to THANK YOU, our integral volunteers and partners, for supporting the conservation of migratory shorebirds and their habitats. Last winter, we completed the 9<sup>th</sup> consecutive year of long-term, multi-scale monitoring in many locations! PFSS partners once again contributed data from coastal British Columbia, Canada, and western Mexico, and the [Migratory Shorebird Project](#), consisting of over 40 partner agencies and organizations, introduced surveys in Guatemala – the last of the 13 countries on the Pacific Coast of the Americas included in our network!

### Let's Do the Numbers

During last winter's survey, >200 biologists and citizen scientists counted more than 340,000 shorebirds across in California, Oregon, and Washington. Over much of the US West Coast, November was drier than normal, allowing most surveys to go forward on their scheduled dates, and avoiding potential survey postponements that are logistically challenging when surveying at a broad scale. PFSS surveyors counted more Dunlin (>125,000) than any other shorebird, followed by American Avocet (>31,000), Marbled Godwit (>29,000), Western Sandpiper (>28,000), and Least Sandpiper (>24,000). Of course, thousands of unknown "peeps" were recorded as well (>20,000), which included mostly Dunlin, Least, and Western Sandpipers. From 2012 – 2019, these five species also had the highest density (birds counted/area surveyed) among shorebirds in Washington, Oregon and California combined (Figure 1). Annual trends in abundance among these species have been similar, with winter 2019-20 marking the second consecutive year of increase since our lowest estimates occurred in the winter of 2017-18 (Figures 2-4).



### Resources and Data Visualization

Visit [www.pointblue.org/pfss](http://www.pointblue.org/pfss) for project resources and to explore PFSS data using [custom visualization tools](#) and an [interactive map](#). All figures herein were created using the web-based tools developed by Point Blue's eco-informatics team!

### Data Sharing

We strive to promote shorebird conservation by collaborating and sharing data! Please contact us if you are interested.

*Figure 1. Relative abundance of top five shorebird species counted from 2012-2019 for PFSS in the USA. Total birds counted on top of each bar.*

Sincerely,

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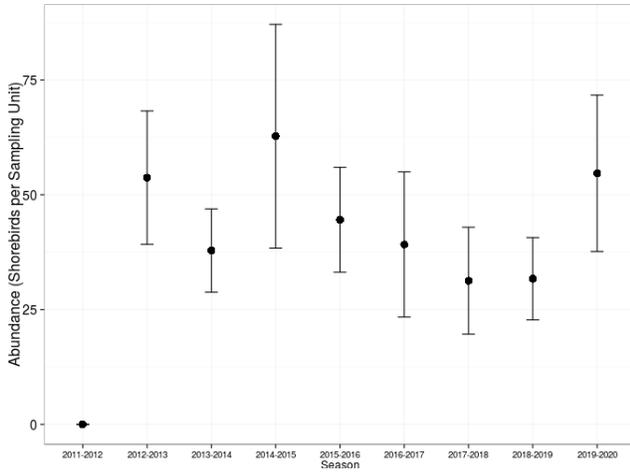


Figure 2 American Avocet abundance in Washington, Oregon, and California from 2012 – 2019. Results from surveys of the Pacific Flyway Shorebird Survey.

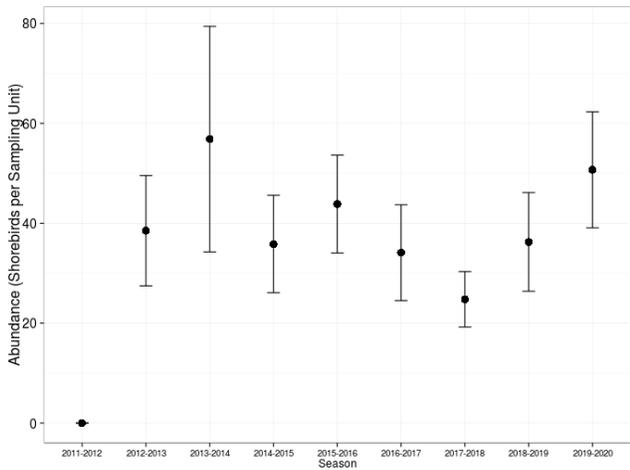


Figure 3 Marbled Godwit abundance in Washington, Oregon, and California from 2012 – 2019. Results from surveys of the Pacific Flyway Shorebird Survey.

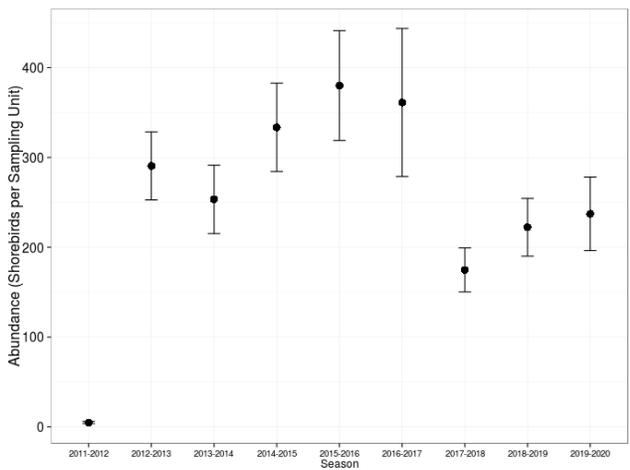


Figure 4 Calidris species (Sanderling, Dunlin, Least Sandpiper, and Western Sandpiper) abundance in Washington, Oregon, and California from 2012 – 2019. Total for these species were combined because of challenges identifying individuals within mixed-species flocks. Results from surveys of the Pacific Flyway Shorebird Survey.

*PFSS – a partnership for conservation of shorebirds and their ecosystems*

