

# Compare to Daisuke's Results

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## Initial Comparison (to Daisuke's Compiled Results)

### WBIC\_YEAR

Daisuke's results used 444 WBIC\_YEARS. Our results, which included years after Daisuke's, had 683 WBIC\_YEARS, but this was reduced to 655 WBIC\_YEARS when "invalid" estimates were excluded. Our results shared 411 WBIC\_YEARS with Daisuke's results. Of the 33 WBIC\_YEARS in Daisuke's results that were not in our results, 3 were not in our file of PEs, 0 were not in our original file of raw data from the FMDB, and 20 were not in our prepped file of raw data from the FMDB. Thus, from our results, 3 WBIC\_YEARS were excluded because we did not have a PE and 20 WBIC\_YEARS were excluded because of choices we made when prepping the raw FMDB file (a review of the data prepper log suggests that all of these WBIC\_YEARS were lost when we restricted the analysis to fish captured with fyke nets in the spring). The WBIC\_YEARS in Daisuke's analysis that are not in our analysis are below.

WBIC\_YEARS in Daisuke's results for which we do not have a PE.

```
[1] "1543300_1993" "2350500_2012" "2914800_1999"
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WBIC\_YEARS in Daisuke's results that were excluded in our prepping the FMDB file.

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[1] "378400_1999" "716800_2006" "968800_2006" "995200_2005"  
[5] "1469100_2003" "1543300_1993" "1579900_2007" "1591100_2006"  
[9] "1631900_2009" "1631900_2012" "2106800_2012" "2271600_2011"  
[13] "2316100_2003" "2316100_2011" "2350500_2012" "2393200_2012"  
[17] "2435700_2002" "2865000_1997" "2914800_1999" "2949200_2005"
```

## Computation Results

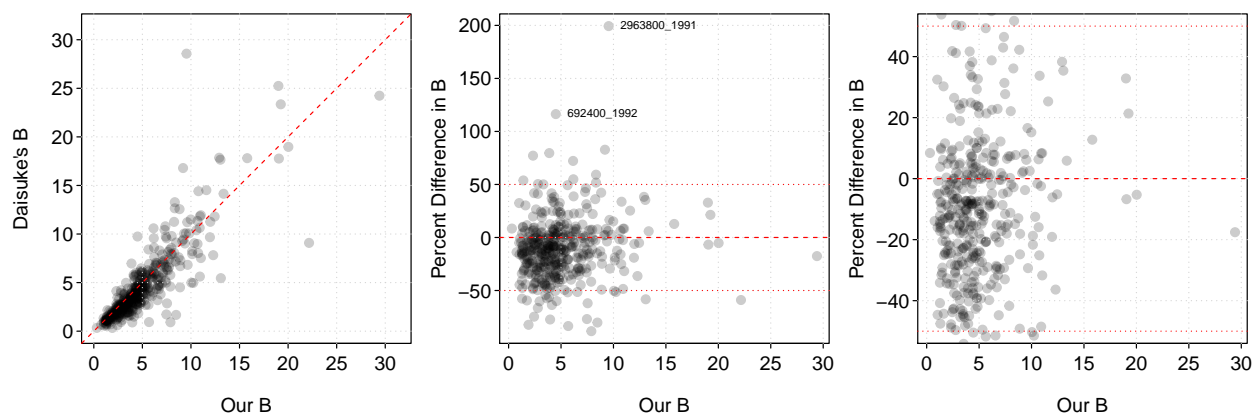


Figure 1: Daisuke's B (LEFT) and the percentage difference in B (MIDDLE and RIGHT) versus our B. Values that are more than 100% different are marked on the middle plot.

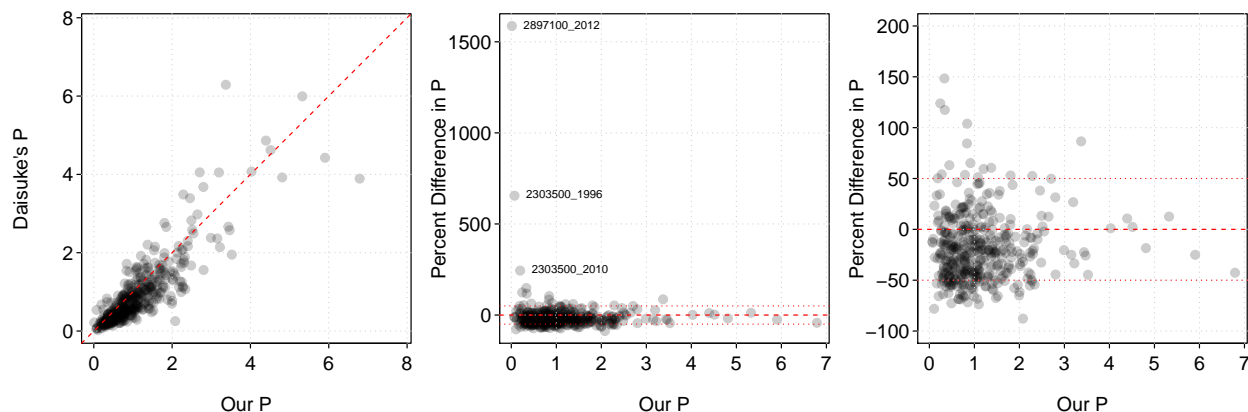


Figure 2: Daisuke's P (LEFT) and the percentage difference in P (MIDDLE and RIGHT) versus our P. Values that are more than 200% different are marked on the middle plot.

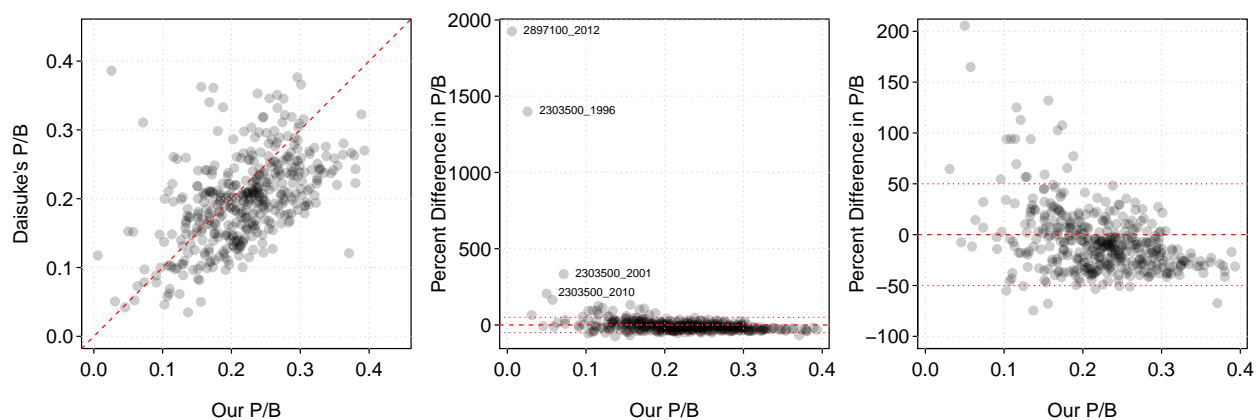


Figure 3: Daisuke's P (LEFT) and the percentage difference in P/B (MIDDLE and RIGHT) versus our P/B. Values that are more than 200% different are marked on the middle plot.

## “Raw” Data Comparison

### PEs

The PEs were the same for 411 WBIC\_YEARs in common between our and Daisuke's analysis.

### Lake Size

Lake size was exactly the same for 88.9% and within 1% of each other for 98.1% of WBICs in common between our and Daisuke's analysis (Figure 4). For what it is worth, our lake sizes for the four large differences in Figure 4 match what is available in the online lake app.

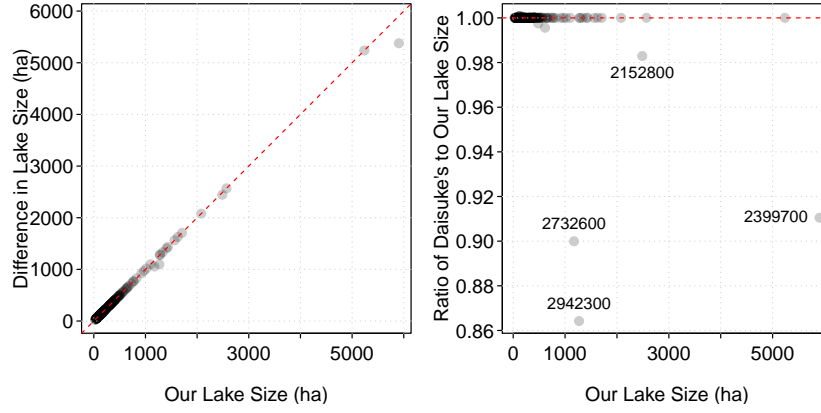


Figure 4: Daisuke's lake size (LEFT) and the ratio between Daisuke's and our lake sizes (RIGHT) versus lake size in our analysis. WBICs for which the difference was more than 1% are marked.

## Weight-Length Relationships

Of the 378 weight-length relationships shared between our and Daisuke's analyses (restricted to only WBIC\_YEAR regressions), 99.7% were within 1% of each other for  $\log(a)$ , 99.7% were within 1% of each other for  $b$ , 99.1% were within 1% of each other for  $n$ , and 99.7% were within 1% of each other for  $r^2$  (Figure 5). Note that one of the most different regression results were from 2013, which was not used in Daisuke's analysis.

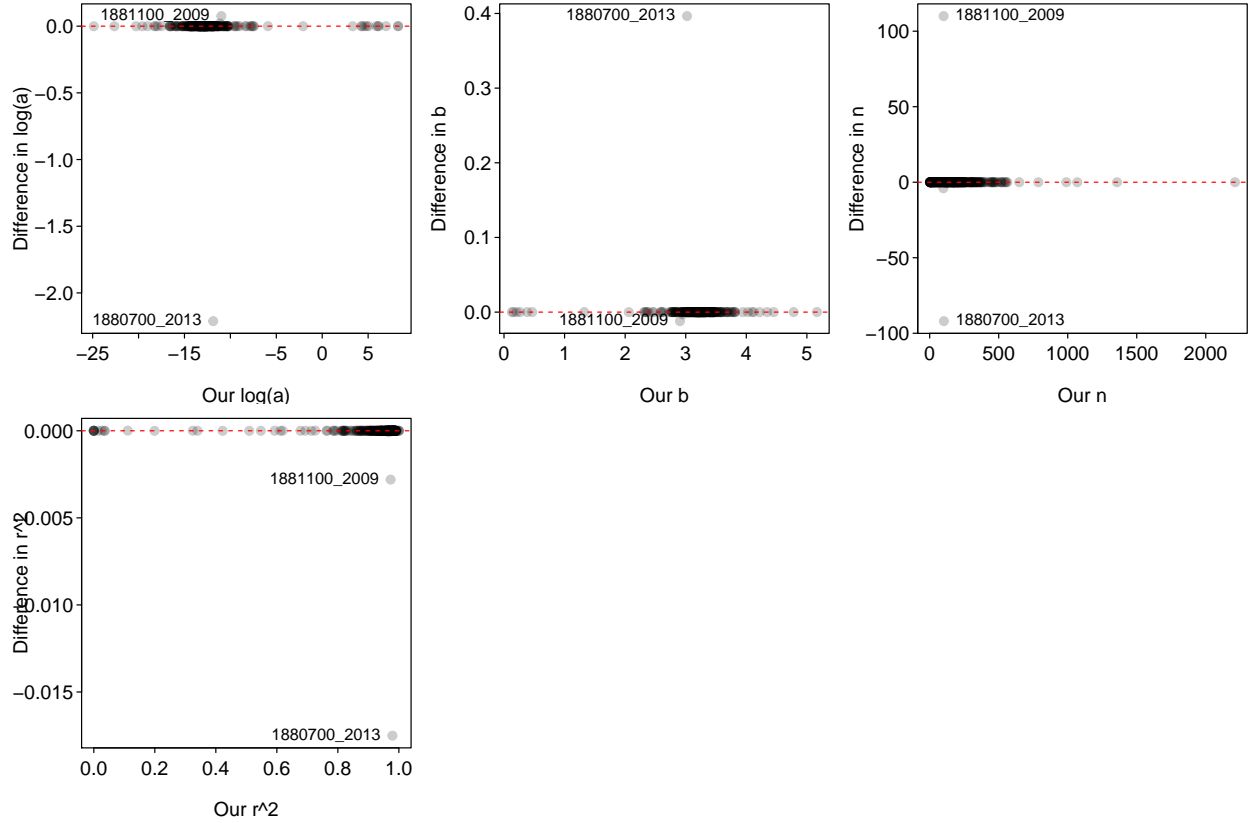


Figure 5: Differences in Daisuke's and our weight-length regression results versus our weight-length regression results for four summary statistics.