**Overview**

This document will serve as a log of reconstruction model runs starting with 2016. Eventually I hope we can retroactively produce a record of the use of this model for the reconstruction of Bristol Bay brood tables that can be published in some ADF&G report.

**2016 Reconstruction**

Unallocated total return (C+E) tables constructed by Fred West (ASL from FDMS imported into ACCESS and dumped by query into excel table). Fred moves on to new position immediately after passing TR table to Curry. Input files created by Curry and model run by Curry.

**2017 Reconstruction**

Unallocated total return (C+E) tables constructed by Greg Buck and Katie Sechrist (ASL from FDMS imported into ACCESS and dumped by query into excel table). Model run by Hamachan and Curry. Curry’s results (7 Nov 17) kept. Much difficulty as this was first year of involvement of Katie, Greg and Hamachan and first attempt to create input files by ADF&G staff. Did not go smoothly.

**2018 Reconstruction**

Begin assigning Input files to specific ADF&G staff:

/R/ageComp.annual.csv --- Katie Sechrist

/R/GeneticsComp\_updated\_Annual.csv -- Tyler Dann

/R/qry\_Annual\_ESCAPEMENT\_updated.csv -- Jordan Head

/R/qry\_Annual\_CATCH\_updated.csv -- Greg Buck

/Syrah/outputFiles/Reallocation/catchAdd.csv -- Greg Buck

/Syrah/outputFiles/Reallocation/ageCompAdd.csv -- Katie Sechrist

/Syrah/outputFiles/Reallocation/inshoreTogiak.csv -- Jordan Head

/Syrah/outputFiles/Reallocation/offshoreCatchAdd.csv -- Jordan Head

Curry establishes a GitHub repository for the reconstruction model:

<https://github.com/curryc2/Bristol-Bay-Run-Recon>

The 2018 model run included new genetic information from 2016 and 2018 and was run retroactively back through 2016. Harvests back through 2016 were checked against fish ticket database and changes made as necessary. Fish tickets from 2018 were almost 100% complete and checked when harvest numbers for 2016 -2018 were updated (Table 1).

Table 1. Summary of Bristol Bay inshore harvest and how it was handled for the 2018 model run.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| FileName | Location | 2018 |  | 2017 |  | 2016 |  |
| qry\_Annual\_CATCH\_updated.csv | 321 | 2,772,500 |  | 5,706,496 |  | 6,631,116 |  |
|  | 322 | 5,150,759 |  | 11,981,007 |  | 8,740,030 |  |
|  | 324 | 5,880,323 |  | 7,227,725 | a | 12,403,630 |  |
|  | 325 | 22,798,340 |  | 11,387,724 |  | 7,268,141 |  |
| catchAdd.csv | Kvi Set | 612,475 |  | 1,033,485 |  | 1,070,228 |  |
| note: all genetically apportioned | Ig Set | 588,495 |  | 462,408 | b | 841,730 | b |
| unless footnoted | Nak Set | 848,000 |  |  |  |  |  |
|  | NRSHA | 1,588,744 |  |  |  |  |  |
|  | WRSHA | 848,961 |  | 474,387 | c |  |  |
| Total |  | 41,088,597 |  | 38,273,232 |  | 36,954,875 |  |
| a Excludes 665 age 2.25 from all input files | | | | | | |  |
| b Not genetically apportioned. | | | | | | |  |
| c Not genetically apportioned for 2017 model run but is genetically apportioned for 2018 run | | | | | | |  |