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## Bio



Length at age in the beginning of the year (or season) in the ending year of the model. Shaded area indicates 95% distribution of length at age around estimated growth curve.

*file:* [*bio1\_sizeatage.png*](http://docs.google.com/bio1_sizeatage.png)

**

Length at age (top-left panel) with CV (thick line) and SD (thin line) of length at age shown in top-right and lower-left panels

*file:* [*bio2\_sizeatage\_plus\_CV\_and\_SD.png*](http://docs.google.com/bio2_sizeatage_plus_CV_and_SD.png)

**

Length at age (top-left panel) with weight (thick line) and maturity (thin line) shown in top-right and lower-left panels

*file:* [*bio3\_sizeatage\_plus\_WT\_and\_MAT.png*](http://docs.google.com/bio3_sizeatage_plus_WT_and_MAT.png)

**

Distribution of length at age for seas: 1 sub\_seas: 1 morph: 1

*file:* [*bio1B\_len\_at\_age\_matrix\_1.png*](http://docs.google.com/bio1B_len_at_age_matrix_1.png)

**

Distribution of length at age for seas: 1 sub\_seas: 2 morph: 1

*file:* [*bio1B\_len\_at\_age\_matrix\_2.png*](http://docs.google.com/bio1B_len_at_age_matrix_2.png)

**

Weight-length relationship

*file:* [*bio5\_weightatsize.png*](http://docs.google.com/bio5_weightatsize.png)

**

Maturity at length

*file:* [*bio6\_maturity.png*](http://docs.google.com/bio6_maturity.png)

**

Spawning output at length. This is the product of maturity and fecundity unless maturity is age-based, in which case only fecundity is represented.

*file:* [*bio10\_spawningoutput\_len.png*](http://docs.google.com/bio10_spawningoutput_len.png)

**

Spawning output at age. This is the product of maturity and fecundity. When these processes are length-based they are converted into the age dimension using the matrix of length at age.

*file:* [*bio11\_spawningoutput\_age.png*](http://docs.google.com/bio11_spawningoutput_age.png)