

Process error: Paul, MFCL.

SCENARIO 1

- Growth (mean size at age, sd):
 - o Santiago (spines+tagging), Mean lengths at age at the beginning of the year in table below. Sd=4.71 (constant over time).
- 1 47.2345486
- 2 61.3730127
- 3 72.8448951
- 4 82.1531258
- 5 89.7057799
- 6 95.8339674
- 7 100.80635
- 8 104.840917
- 9 108.114545
- 10 110.770752
- 11 112.925985
- 12 114.674732
- 13 116.093656
- 14 117.244964
- 15 118.17913
- Maturity:
 - o 0.5 at age 5 (0, 0, 0, 0, 0.5, 1, 1, 1, 1, 1) ----- **4B**
 - o 0.5 at age 4, (0, 0, 0, 0.5, 1, 1, 1, 1, 1, 1)-----**Scenario 2**
- Natural mortality:
 - o 0.3 -----**4B**
 - o M at age (run 4H)-----**Rerun with new exe as Scenario 3**
- Recruitment date
 - o Base case: 1-----**4B**
 - o 6-----**Scenario 4**
- Stock Recruit relationship:
 - o Alternative steepness values? 1 (**Scenario5**), 0.8 (**Scenario6**), 0.6 (**Scenarios 7**)
- Catchability:
 - o 4B Base case
 - o 4G constant q for all fisheries-----**Rerun with new exe as Scenario 8**
- Selectivity of the fishery
 - o 4B Base case
 - o 4N ungroup fisheries for selectivity estimation—**Rerun with new exe as Scenario 9**
 - o baitboat and troll selectivities (fisheries 1, 2, 3) dome shape -----**Scenario 10**