

The projection used in this study was performed manually by directly altering the catch levels in future years, setting CPUE values as NA, and then importing the data into the LIME model for assessment. The SPR and SSB/SSB0 reference points were recorded accordingly. As shown in below:

Catch	CPUE
118750	0.0450698
116702	0.0445391
116370	0.0446617
119354	0.0449618
106972	0.0385534
119258	0.0406134
122719	0.0430877
107109	0.0356004
89219	0.0278362
86006	0.0257962
83612	0.0248631
70602	0.0216658
67205	0.0214262
66687	0.0220729
66575	0.0228903
68581	0.025356
69741	0.0264307
68735	0.0264486

#### Observed catch and CPUE

converted into



56000 catch level:

Catch	CPUE
118750	0.0450698
116702	0.0445391
116370	0.0446617
119354	0.0449618
106972	0.0385534
119258	0.0406134
122719	0.0430877
107109	0.0356004
89219	0.0278362
86006	0.0257962
83612	0.0248631
70602	0.0216658
67205	0.0214262
66687	0.0220729

66575	0.0228903
68581	0.025356
69741	0.0264307
68735	0.0264486
56000	NA

60000 catch level:

Catch	CPUE
118750	0.0450698
116702	0.0445391
116370	0.0446617
119354	0.0449618
106972	0.0385534
119258	0.0406134
122719	0.0430877
107109	0.0356004
89219	0.0278362
86006	0.0257962
83612	0.0248631
70602	0.0216658
67205	0.0214262
66687	0.0220729
66575	0.0228903
68581	0.025356
69741	0.0264307
68735	0.0264486
60000	NA

64000 catch level:

Catch	CPUE
118750	0.0450698
116702	0.0445391

116370	0.0446617
119354	0.0449618
106972	0.0385534
119258	0.0406134
122719	0.0430877
107109	0.0356004
89219	0.0278362
86006	0.0257962
83612	0.0248631
70602	0.0216658
67205	0.0214262
66687	0.0220729
66575	0.0228903
68581	0.025356
69741	0.0264307
68735	0.0264486
64000	NA

68000 catch level:

Catch	CPUE
118750	0.0450698
116702	0.0445391
116370	0.0446617
119354	0.0449618
106972	0.0385534
119258	0.0406134
122719	0.0430877
107109	0.0356004
89219	0.0278362
86006	0.0257962
83612	0.0248631
70602	0.0216658
67205	0.0214262
66687	0.0220729
66575	0.0228903
68581	0.025356

69741	0.0264307
68735	0.0264486
68000	NA

72000 catch level:

Catch	CPUE
118750	0.0450698
116702	0.0445391
116370	0.0446617
119354	0.0449618
106972	0.0385534
119258	0.0406134
122719	0.0430877
107109	0.0356004
89219	0.0278362
86006	0.0257962
83612	0.0248631
70602	0.0216658
67205	0.0214262
66687	0.0220729
66575	0.0228903
68581	0.025356
69741	0.0264307
68735	0.0264486
72000	NA