

Assumptions regarding poaching that are currently assumed in the OMP for West Coast rock lobster and implications of reduced levels of poaching from 2010+

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All poaching referred to here is the “total” poaching for the resource as a whole.

Underlying assessment (operating) models

There are two sets of OMs for each of the five management super-areas. These differ as regards the amount of total historic poaching assumed for the 1990-2008 period.

OM1 - assumes total annual historic poaching = 500 MT and is given 65% weight

OM2 - assumes total annual historic poaching = 250 MT and is given 35% weight.

Assumptions regarding future total poaching levels (for period 2010+)

There are six different assumption regarding future levels of poaching. Each is assigned a different weight in the OMP development.

Scenario	Increase or decrease of poaching relative to historic level	Weight given to scenario
S1	10% decrease	10%
S2	0 % increase	5%
S3	30% increase	40%
S4	40% increase	20%
S5	70% increase	20%
S6	80% increase	5%

It should be noted that the average increase in total poaching would amount to a 37% increase over the historic level.

Note also that the total poaching level for 2009 is assumed to fall midway between the 2008 and 2010 values assumed.

Implication of reduced levels of poaching for 2010+

1. The current OMP, OMP-2011 re-tuned (which is tuned to produce a median biomass recovery of 35% by 2021 relative to 2006) is run with the following alternate assumptions regarding the level of future poaching from 2010:
 - a) All poaching levels reduced by 10%
 - b) All poaching levels reduced by 20%
 - c) All poaching levels reduced by 50%
 - d) Total poaching level reduced by 125 MT
 - e) Total poaching level reduced by 250 MT

Table 1: Median expected biomass recovery levels and average TACs for alternate levels of future poaching reduction, assuming the current OMP-2011 re-tuned is in place.

	B(2026/2006)	Ave Global TAC (2011-20)	Ave Offshore TAC (2011-20)	Ave Nearshore TAC (2011-20)	Ave IR TAC (2011-20)
Current RC	1.35	2156	1312	422	244
Poaching reduced 10%	1.41	2167	1323	425	247
Poaching reduced 20%	1.42	2167	1327	430	250
Poaching reduced 50%	1.47	2207	1344	442	251
Poaching reduced 125 MT	1.43	2181	1330	432	251
Poaching reduced 250 MT	1.48	2209	1346	442	251

2. The current OMP is retuned for each of the alternate possible future poaching reduction scenarios, so that the median biomass recovery remains 1.35.

Table 2: Median expected biomass recovery levels and average TACs for alternate levels of future poaching reduction, allowing for the OMP to be re-tuned. (The % increase over the RC level of TACs is shown in parentheses.)

	B(2026/2006)	Tuning parameter α	Ave Global TAC (2011-20)	Ave Offshore TAC (2011-20)	Ave Nearshore TAC (2011-20)	Ave IR TAC (2011-20)
Current RC	1.35	1970	2156	1312	422	244
Poaching reduced 125 MT	1.35	2550	2362 (9.6%)	1480 (12.8%)	451 (6.9%)	251 (2.8%)
Poaching reduced 250 MT	1.35	2800	2513 (16.6%)	1595 (21.6%)	478 (13.3%)	251 (2.8%)