

## Calibration Support Database

Table Name	Data Description	Type	Origin/Source	Comment
AEQ	Adult Equivalencies	Output	MainCalibrationProgram: SaveDatMod	
BaseCohort	Base Period Cohort Sizes by Stock & Age	Output	MainCalibrationProgram: CompCohortMod	
BaseExploitationRate	Base Period Exploitation Rates by Stock, Age, Fishery, Time Step	Output	MainCalibrationProgram: SaveDatMod	
BasePeriodCatch	Annual Average Marked Base Period Catch by Fishery	Input	2007_14BPLandedbyMRandTS111820 and ModelStkPPN_9.27.20.xlsx	also contains flagging and external values for handling of model stock proportion
BasePeriodCatch_Tot	Annual Average Total Base Period Catch by Fishery	Input	2007_14BPLandedbyMRandTS111820 and ModelStkPPN_9.27.20.xlsx	table needs to be renamed to BPCatch when running totals (instead of just marked)
BPEscapements	Annual Average Marked Base Period ETRS	Input	Escapements for Calibration 09302020	
BPEscapements_Tot	Annual Average Total Base Period ETRS	Input	Escapements for Calibration 09302020	table needs to be renamed to BPEscapements when running totals (instead of just marked)
BPSizeLimits	Base Period Size Limits	Input		this table is no longer needed as size limits for multiple years are now stored in "SizeLimit" table
CWT MPS in 10E	Accounts for missing Gorst Tags in 10E net - Imputed MPS recoveries	Input - Supplemental	Calibration_CWT_Inputs; Rnd7_9.25.20	table is used to replace 10E Net MPS recoveries in main "CWTAll" table
CWTOOBmerged	OOB CWTs merged over brood years	Output	MainCalibrationProgram:MergeMod	

				adjusted to exclude voluntary BCJDF Sport recoveries from time steps without catch, escapement recoveries adjusted to allow maturation in time 2
CWT_WhiteOOB	Summarized White R recoveries from Frambuilder for OOB run	Input	Calibration_CWT_Inputs; Rnd7_9.25.20	
CWT_All	Summarized CWT recoveries from FRAMBuilder for all stocks run	Input	Calibration_CWT_Inputs; Rnd7_9.25.20	
CWTforSPS_SurrogateMet	CWT data for SPS surrogate method	Input - Supplemental	Surrogate Fisheries MethodologyMay18_2020.docx; SouthSoundSurrogateTagWorkup.xlsx	
CWTImputedAge5	Imputed Age 5 escapement recoveries to avoid ER >= 1	Input - Supplemental	SPS_OOB_Surrogate Tag WorkUp_9.1.20	
CWTJDFSurrogate071816	Uses Stilly as surrogate for JDF CWTs	Input - Supplemental	ELDU surrogate_CalibrationInputsFinal07182016xlsx.xlsx	
EncounterRateAdjustment	Sublegal encounter adjustments	Input		set to 1 - no adjustments
Fishery	FRAM fisheries	Input		
FisheryFlag	Sets flags for fisheries which have a treaty/non-treaty component. Only sets flag for first component. Only used for OOB run	Input		no used
FisheryModelStockProportion	Proportion of marked fishery catch accounted for by model stocks	Output	MainCalibrationProgram: SaveDatMod	also contains externally set values from BPCatch table
FisheryModelStockProportion	Proportion of total fishery catch accounted for by model stocks	Output	MainCalibrationProgram: SaveDatMod	also contains externally set values from BPCatch table
FishScalar	fishery scalars by fishery, year, and time step	Input		calculated iteratively using validation runs; needed to adjust OOB tag recoveries
Growth	Growth parameters for VB growth function	Input	VonBertGrowthFxns_MethdologyReview Oct5.docx, CalibInputs_May262016.xlsx	

ImputeRecoveries	Instructions for imputing recoveries using surrogate fisheries or old base period BPERs	Input	Surrogate Fisheries MethodologyMay18_2020.docx
IncidentalRate	Drop-out and drop-off mortality rates by fishery	Input	same as current base period
MaturationRate		Output	MainCalibrationProgram: SaveDatMod
NaturalMortality	Natural mortality rates	Input	same as current base period
NonRetention	Marked encounters in non-retention fisheries	Input	valid_2020_draft_nonret with MR 11032( encounter estimates of sublegals and legals
NonRetention_Tot	Total encounters in non-retention fisheries	Input	valid_2020_draft_nonret with MR 11032( table needs to be renamed to NonRetention when running totals (instead of just marked)
ProportionTreatyNet	Proportion that is treaty of a non-treaty/treaty terminal net fishery pair	Input	CWTs from fishery pairs combined because either too few recoveries in one fishery or fisheries cannot be distinguished in RMIS - not needed in calibration; handled during surrogate methodology
ShakerInclusion	Flag for inclusion of stock in a fisheries shaker calculations	Input/Output	no longer used
ShakerMortRate	Release mortality rate of sublegal encounters	Input	same as current base period
SizeLimits	historical size limits by fishing year, fishery, and time step	Input	
Stock	FRAM stock list	Input	not split into marked or unmarked includes MOC
SummaryInfo	miscellaneous info needed to run calibration	Input	# stocks, # fisheries, mid-point time steps, etc.
SurrogateFishBPER	Exploitation rates from current base period used in surrogate fishery method	Input	Surrogate Fisheries MethodologyMay18_2020.docx

TargetEncounterRates	Sublegal/legal ratios	Input	Updated 09233030 "SL Ratios For Base Period R7_9.23.20.xlsx
TerminalFisheryFlag	Flag denoting teminal fisheries (1)	Input	same as current base period with exception of 8D net time 2
TimeStep	Time Steps	Input	same as current base period
UpdateLog	Description of database updates	Documentation	
Weighting	Brood year weightin rules for OOB tag groups	Input	Equal weighting of brood years for OOB tag groups
WhiteMatRate	Supplies external maturation rates from trap counts for time 2 and time 3	Input - Supplemental	Escapement recoveries (which are all in TS3 in FRAMBuilderoutput) are apportioned into time steps 2 and 3 based on external data provided by
		FB_WhiteOOB_9.23.16 BCJDF Removed.x	TL

\* Supplemental input tables are not directly run by the calibration program, but data was used to alter CWT tables; these tables are incorporated in the database for documentation purposes