

Testing generateZerosUsingSL

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```
dat <- MadeUpData_for_SL_SA_tests_v1_WGRDBES_EST_TEST_3

ss <- dat[["SS"]]
ss

##      SSid LEid F0id TEid FTid SLid OSid SSrecType SSseqNum SSstratification
## 1: 229579 NA 74157 NA NA 47939 NA SS 1 N
##      SSstratumName SSclustering SSclusterName SSobsActTyp SScatchFra SSobsTyp
## 1: U N U Sort Lan Volume
##      SSsampler SSspecListName SSuseCalcZero SStimeTotal SStimeSamp
## 1: Observer MadeUpData_for_SL_SA_tests_v1 Y NA NA
##      SSnumTotal SSnumSamp SSselProb SSincProb SSselectMeth SSunitName
## 1: 1 1 1 1 CENSUS 1
##      SSselectMethCluster SSnumTotalClusters SSnumSampClusters SSselProbCluster
## 1: <NA> NA NA NA
##      SSincProbCluster SSsamp SSnoSampReason SSnonRespCol SSauxVarTot
## 1: NA Y <NA> N NA
##      SSauxVarValue SSauxVarName SSauxVarUnit
## 1: NA <NA> <NA>

sl <- dat[["SL"]]
sl <- subset(sl, SLspecListName %in% ss$SSspecListName)
sl

##      SLid SLrecType SLcou SLinst SLspecListName SLyear
## 1: 47939 SL ZW 4484 MadeUpData_for_SL_SA_tests_v1 1965
## 2: 47940 SL ZW 4484 MadeUpData_for_SL_SA_tests_v1 1965
##      SLcatchFrac SLcommTaxon SLsppCode
## 1: Lan 126436 126436
## 2: Lan 107254 107254

sa <- dat[["SA"]]
sa

## $SA
##      SAid SSid LEid SArectype SaseqNum SaparSequNum Sastratification
## 1: 575694 229579 NA SA 1 NA N
##      SAstratumName SaspeCode SaspeCodeFAO SastateOfProc Sapres
## 1: U 107254 NEP FRE WHL
##      SASpecState SAcatchCat SALandCat SAcommCatScl SAcommCat SAsex
## 1: DeadOrZeroProbSurvival Lan <NA> <NA> NA U
##      SAeconZoneIndi SAarea SastatRect SAFishManUnit SAgsaSubarea SAjurisdArea
## 1: <NA> <NA> <NA> <NA> NotApplicable <NA>
##      SAnatFishAct SAMetier5 SAMetier6 SAgear SAMeshSize SAselDev SAselDevMeshSize
## 1: <NA> <NA> <NA> <NA> NA NA NA
```

```
##      SAunitType SATotalWtLive SASampWtLive SAnumTotal SAnumSamp SAselProb
## 1:      Box      NA      NA      1      1      1
##      SAincProb SAselMeth SAunitName SAlowHierarchy SASampler SASamp
## 1:      1      CENSUS      1      D Observer      N
##      SAnoSampReason SAnonRespCol SAnoSampReasonFM SAnoSampReasonBV SATotalWtMes
## 1:      <NA>      N      <NA>      <NA>      10
##      SASampWtMes SAconFacMeasLive SAauxVarTot SAauxVarValue SAauxVarName
## 1:      5      1      NA      NA      <NA>
##      SAauxVarUnit
## 1:      <NA>
```

```
dat_after <- generateZerosUsingSL(dat)
```

```
ss_after <- dat_after[["SS"]]
ss_after
```

```
##      SSid LEid FOid TEid FTid SLid OSid SSrecType SSseqNum SSstratification
## 1: 229579 NA 74157 NA NA 47939 NA SS 1 N
##      SSstratumName SSclustering SSclusterName SSobsActTyp SScatchFra SSobsTyp
## 1:      U      N      U      Sort      Lan      Volume
##      SSsampler      SSspecListName SSuseCalcZero SStimeTotal SStimeSamp
## 1: Observer MadeUpData_for_SL_SA_tests_v1      Y      NA      NA
##      SSnumTotal SSnumSamp SSselProb SSincProb SSselectMeth SSunitName
## 1:      1      1      1      1      CENSUS      1
##      SSselectMethCluster SSnumTotalClusters SSnumSampClusters SSselProbCluster
## 1:      <NA>      NA      NA      NA
##      SSincProbCluster SSsamp SSnoSampReason SSnonRespCol SSauxVarTot
## 1:      NA      Y      <NA>      N      NA
##      SSauxVarValue SSauxVarName SSauxVarUnit
## 1:      NA      <NA>      <NA>
```

```
sl_after <- dat_after[["SL"]]
sl_after <- subset(sl_after, SLspecListName %in% ss_after$SSspecListName)
sl_after
```

```
##      SLid SLrecType SLcou SLinst      SLspecListName SLyear
## 1: 47939      SL      ZW      4484 MadeUpData_for_SL_SA_tests_v1 1965
## 2: 47940      SL      ZW      4484 MadeUpData_for_SL_SA_tests_v1 1965
##      SLcatchFrac SLcommTaxon SLsppCode
## 1:      Lan      126436      126436
## 2:      Lan      107254      107254
```

```
sa_after <- dat_after["SA"]
sa_after
```

```
## $SA
##      SAid      SSid LEid SArectype SAsseqNum SAparSequNum SAstratification
## 1: 575675.4 229579 NA      SA      0.814      NA      N
## 2: 575675.5 229579 NA      SA      0.815      NA      N
## 3: 575675.6 229579 NA      SA      0.816      NA      N
## 4: 575675.7 229579 NA      SA      0.817      NA      N
## 5: 575675.8 229579 NA      SA      0.818      NA      N
## ---
## 183: 575693.6 229579 NA      SA      0.996      NA      N
## 184: 575693.7 229579 NA      SA      0.997      NA      N
## 185: 575693.8 229579 NA      SA      0.998      NA      N
```

## 186:	575693.9	229579	NA	SA	0.999	NA	N
## 187:	575694.0	229579	NA	SA	1.000	NA	N
##	SAstratumName	SAspeCode	SAspeCodeFAO	SAstateOfProc	SApres		
## 1:	U	107254	<NA>	Unknown	Unknown		
## 2:	U	126436	<NA>	Unknown	Unknown		
## 3:	U	107254	<NA>	Unknown	Unknown		
## 4:	U	127143	<NA>	Unknown	Unknown		
## 5:	U	107254	<NA>	Unknown	Unknown		
## ---							
## 183:	U	105693	<NA>	Unknown	Unknown		
## 184:	U	125815	<NA>	Unknown	Unknown		
## 185:	U	131950	<NA>	Unknown	Unknown		
## 186:	U	136980	<NA>	Unknown	Unknown		
## 187:	U	107254	NEP	FRE	WHL		
##	SAspecState	SACatchCat	SALandCat	SACommCatScl	SACommCat	SAsex	
## 1:	Unknown	Lan	<NA>	<NA>	NA	U	
## 2:	Unknown	Lan	<NA>	<NA>	NA	U	
## 3:	Unknown	Lan	<NA>	<NA>	NA	U	
## 4:	Unknown	Lan	<NA>	<NA>	NA	U	
## 5:	Unknown	Lan	<NA>	<NA>	NA	U	
## ---							
## 183:	Unknown	Lan	<NA>	<NA>	NA	U	
## 184:	Unknown	Lan	<NA>	<NA>	NA	U	
## 185:	Unknown	Lan	<NA>	<NA>	NA	U	
## 186:	Unknown	Lan	<NA>	<NA>	NA	U	
## 187:	DeadOrZeroProbSurvival	Lan	<NA>	<NA>	NA	U	
##	SAeconZoneIndi	SAarea	SASatRect	SAfishManUnit	SAGsaSubarea	SAjurisdArea	
## 1:	<NA>	<NA>	<NA>	<NA>	NotApplicable	<NA>	
## 2:	<NA>	<NA>	<NA>	<NA>	NotApplicable	<NA>	
## 3:	<NA>	<NA>	<NA>	<NA>	NotApplicable	<NA>	
## 4:	<NA>	<NA>	<NA>	<NA>	NotApplicable	<NA>	
## 5:	<NA>	<NA>	<NA>	<NA>	NotApplicable	<NA>	
## ---							
## 183:	<NA>	<NA>	<NA>	<NA>	NotApplicable	<NA>	
## 184:	<NA>	<NA>	<NA>	<NA>	NotApplicable	<NA>	
## 185:	<NA>	<NA>	<NA>	<NA>	NotApplicable	<NA>	
## 186:	<NA>	<NA>	<NA>	<NA>	NotApplicable	<NA>	
## 187:	<NA>	<NA>	<NA>	<NA>	NotApplicable	<NA>	
##	SAnatFishAct	SAmetier5	SAmetier6	SAgear	SAmeshSize	SAseDev	
## 1:	<NA>	<NA>	<NA>	<NA>	NA	NA	
## 2:	<NA>	<NA>	<NA>	<NA>	NA	NA	
## 3:	<NA>	<NA>	<NA>	<NA>	NA	NA	
## 4:	<NA>	<NA>	<NA>	<NA>	NA	NA	
## 5:	<NA>	<NA>	<NA>	<NA>	NA	NA	
## ---							
## 183:	<NA>	<NA>	<NA>	<NA>	NA	NA	
## 184:	<NA>	<NA>	<NA>	<NA>	NA	NA	
## 185:	<NA>	<NA>	<NA>	<NA>	NA	NA	
## 186:	<NA>	<NA>	<NA>	<NA>	NA	NA	
## 187:	<NA>	<NA>	<NA>	<NA>	NA	NA	
##	SAseDevMeshSize	SAunitType	SAtotalWtLive	SAsampWtLive	SAnumTotal		
## 1:	NA	Box	0	0	1		
## 2:	NA	Box	0	0	1		
## 3:	NA	Box	0	0	1		

##	4:	NA	Box	0	0	1
##	5:	NA	Box	0	0	1
##	---					
##	183:	NA	Box	0	0	1
##	184:	NA	Box	0	0	1
##	185:	NA	Box	0	0	1
##	186:	NA	Box	0	0	1
##	187:	NA	Box	NA	NA	1
##		SAnumSamp	SAselProb	SAincProb	SAselctMeth	SAunitName
##	1:	1	1	1	CENSUS	575675.499000004
##	2:	1	1	1	CENSUS	575675.599000004
##	3:	1	1	1	CENSUS	575675.699000004
##	4:	1	1	1	CENSUS	575675.799000004
##	5:	1	1	1	CENSUS	575675.899000004
##	---					
##	183:	1	1	1	CENSUS	575693.699
##	184:	1	1	1	CENSUS	575693.799
##	185:	1	1	1	CENSUS	575693.899
##	186:	1	1	1	CENSUS	575693.999
##	187:	1	1	1	CENSUS	1
##		SAampler	SAamp	SAanoSampReason	SAnonRespCol	SAanoSampReasonFM
##	1:	Observer	N	<NA>	N	<NA>
##	2:	Observer	N	<NA>	N	<NA>
##	3:	Observer	N	<NA>	N	<NA>
##	4:	Observer	N	<NA>	N	<NA>
##	5:	Observer	N	<NA>	N	<NA>
##	---					
##	183:	Observer	N	<NA>	N	<NA>
##	184:	Observer	N	<NA>	N	<NA>
##	185:	Observer	N	<NA>	N	<NA>
##	186:	Observer	N	<NA>	N	<NA>
##	187:	Observer	N	<NA>	N	<NA>
##		SAanoSampReasonBV	SAtotalWtMes	SAampWtMes	SAconFacMeasLive	SAauxVarTot
##	1:	<NA>	0	0	1	NA
##	2:	<NA>	0	0	1	NA
##	3:	<NA>	0	0	1	NA
##	4:	<NA>	0	0	1	NA
##	5:	<NA>	0	0	1	NA
##	---					
##	183:	<NA>	0	0	1	NA
##	184:	<NA>	0	0	1	NA
##	185:	<NA>	0	0	1	NA
##	186:	<NA>	0	0	1	NA
##	187:	<NA>	10	5	1	NA
##		SAauxVarValue	SAauxVarName	SAauxVarUnit		
##	1:	NA	<NA>	<NA>		
##	2:	NA	<NA>	<NA>		
##	3:	NA	<NA>	<NA>		
##	4:	NA	<NA>	<NA>		
##	5:	NA	<NA>	<NA>		
##	---					
##	183:	NA	<NA>	<NA>		
##	184:	NA	<NA>	<NA>		
##	185:	NA	<NA>	<NA>		

## 186:	NA	<NA>	<NA>
## 187:	NA	<NA>	<NA>