	Stock Synthesis	CASAL	MULTIFAN	GADGET	SAM	Casal2
Issue is fairly well understand and best practices are understood						
Scalable from data-rich to data-poor	Yes	Yes	Yes	Yes	No	Yes
Age-length dynamics	No[1]	No[1]	No	Yes	No	No[1]
Estimate data weights (index, composition and tagging)	Yes[2]	Yes[2]	Yes[3]	Yes[4]	Yes	Yes[5]
State-space formulation	No[6]	No[6]	No	No	Yes	No[6]
Generate expected values of data	Yes	Yes	Yes	Yes[7]	Yes	Yes
Reference point calculation	Yes[8]	Yes[8]	Yes[8]	Yes[7]	Yes[9]	No
Projections	Yes[8]	Yes[8]	Yes[8]	Yes[7]	Yes	Yes
Several alternative models exist but the field has yet to identify best practices						
Spatial structure	Yes	Yes	Yes	Yes	No	Yes
New issue to most assessment analysts; methods under development						
Multiple stocks	No	Yes	Implicitly	Yes	No[10]	Yes
Close-kin genetics	No	No	No	No	No	No
Multispecies relationships	No	No	No	Yes	No	Yes