

# Time to recover to Minimum Stock Size Threshold (MSST) for different stocks

There were questions about what to assign as the MSST.

MSST can be no lower than 50% of  $B_{msy}$ ; the biomass that gives MSY;

So how long would it take for a stock to recover to  $B_{msy}$  if the stock were reduced to 90%, 85%, 75% or 50% of  $B_{msy}$ ?

This will depend on life history characteristics.

SSC evaluated for several different stocks: yellowfin tuna; vermilion snapper; Gray triggerfish; red snapper; king mackerel; western Atlantic Bluefin tuna; gag; yellowedge grouper

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**Table 5. Time to recovery from four definitions of MSST in the absence of fishing mortality**

MSST Definition (% $B_{MFMT}$ )	Species							
	Yellow fin tuna	Gray Trigge r-fish	King Macke rel	Vermil ion Snapp er	Gag Grou per	Red Snappe r	Yellow edge Groupe r	Blue fin Tuna
<b>90</b>	1	1	1	1	1	1	1	2
<b>85</b>	1	1	1	1	2	1	2	3
<b>75</b>	1	2	2	2	2	2	3	5
<b>50</b>	3	3	3	3	3	4	6	10

Analysis showed there was little chance that spawning potential would fall below 75%  $B_{msy}$  unless overfishing had occurred