

Estimates of long-term potential annual
yields from major fish stocks found on Georges
Bank (ICNAF Divisions 5Ze)

by

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<u>Species</u>	<u>Stock Area</u>	<u>Potential Yields MTX10³ from Georges Bank</u> ⁽¹⁾	<u>Comments</u>
Yellowtail	5+6	15	Assumed 50% of stock on Georges Bank (4); 30,000 MT potential for entire stock (2), when stock rebuilds (presently 10,000 total).
Other finfish	5+6	51	Assumed 30% of total stock (3), of 170,000 MT (6) other finfish and flounders.
Squid			
<u>Illex</u>	5+6	18	Assumed 60% of stock on Georges Bank (3); 30,000 MT potential for entire stock
<u>Loligo</u>	5Z+6	3	Assumed 7% of stock total on Georges Bank, based on autumn survey catches.
Lobster	5Ze	2	MSY of 3,800 MT for SA 5Z+6 approximately 50% on Georges Bank
Other Shellfish	5Ze	unknown	Significant quantities of other shellfish species (7) exist on Georges Bank though the actual amounts are as yet unknown.

1. Thousands of Metric tons
2. Assuming constant recruitment at $F_{0.1}$
3. From Cohen, E., M. Grosslein, M. Sissenwine and F. Steimle, 1978. Status Report on Production Studies at the Northeast Fisheries Center, NEFC, Lab. Ref. No. 78-14. Table 5
4. Based on Historical (1968-1975) distribution of catches
5. Assessments not available, based on average 1965-77 catches
6. Based on 1976 total allowable catch levels of other flounder and other finfish in SA 5+6 (170,000 MT)
7. Surf clam and ocean quahog fisheries may develop in this area, as it becomes more profitable.

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<u>Species</u>	<u>Stock Area</u>	<u>Potential Yields (MTX10³)⁽¹⁾ from Georges Bank</u>	<u>Comments</u>
Herring	5Z+6	120	100% of the stock; major spawning occurs on Georges Bank, and great intermixing throughout the stock area. Assuming stock rebuilding (2)
Scallops	5Ze	10	(2)
Cod	5Z	35	100% of the stock; found primarily on Georges Bank and Nantucket Shoals. (2)
Haddock	5	50	100% of the stock; major spawning and nursery grounds on Georges Bank and movements between Gulf of Maine and Georges Bank components of stock. Assuming stock rebuilding.
Mackerel	3-6	32	Assumed 15% of stock on Georges Bank (3); 210,000 MT estimate of total stock potential. MSY, assuming a constant age class strength at F _{0.1}
Pollock	4VWX+5	8	Assumed 19% of stock on Georges Bank (4); 42,000 MT estimate of total stock potential (1978 Canadian estimate)
Redfish	5	6	Assumed 40% of stock on Georges Bank (4); 15,000 MT estimate of total stock potential, based on Schaeffer Yield Model
Silver Hake	5Ze	55	MSY (2)
Red Hake	5Ze	15	MSY (2)