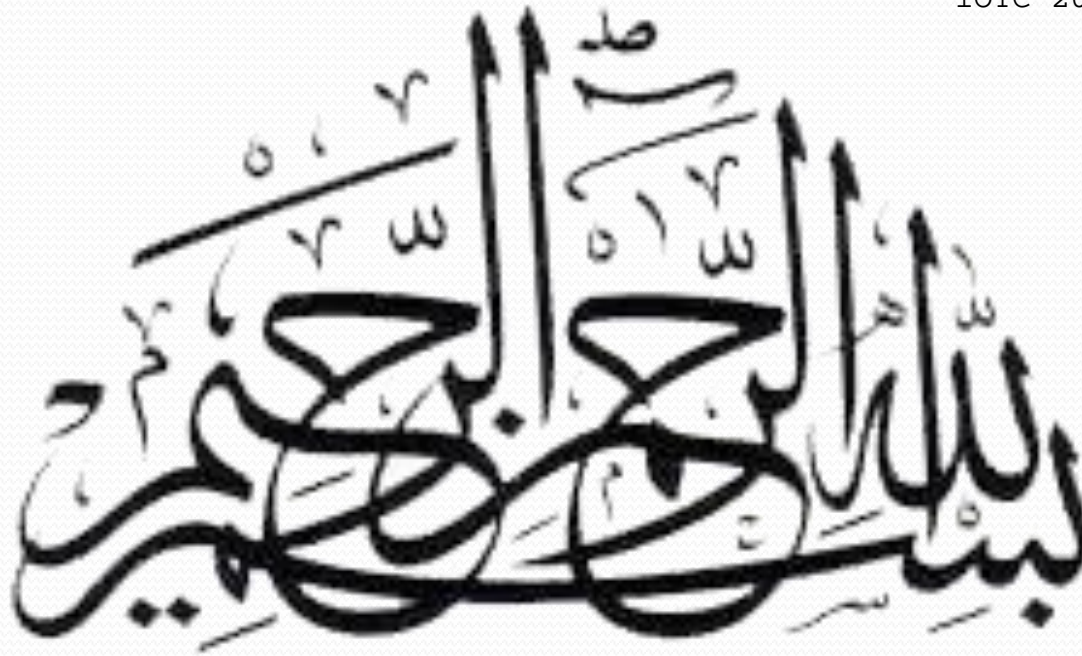


Received: 16 October, 2011
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**In the Name of Allah The Most
Gracious & Merciful**



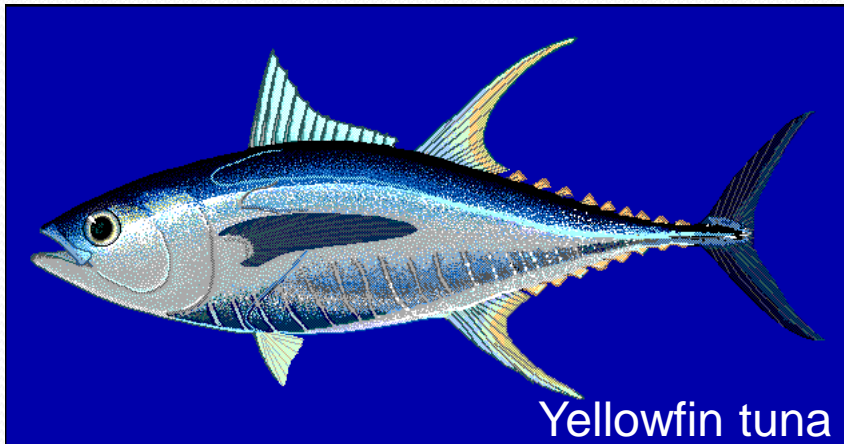
CATCHES AND LANDINGS OF TROPICAL TUNAS (Composition of Statistical data by Weight and Length Measurement)

Abdul Basit & Hamid Badar Osmany
Marine Fisheries Department
Ministry of Ports & Shipping
Government of Pakistan

Scheme of presentation

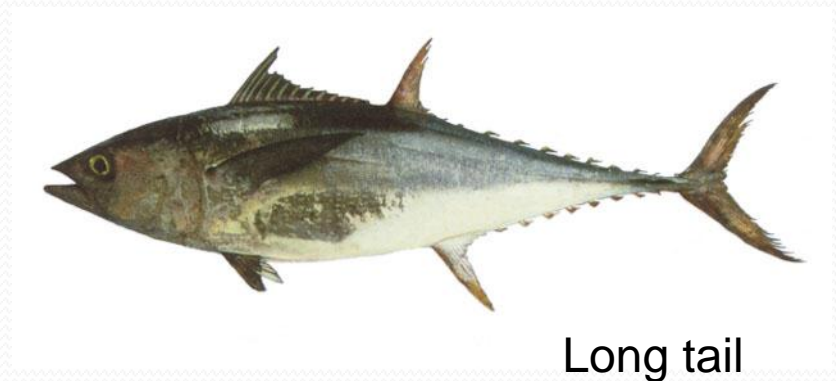
- Introduction
- Tuna species
- Data and methods
- Production of tuna
- Catches of tuna species
- Size frequency of tuna species
- Conclusion

Tuna species



- A common species found in all tropical seas well off shore. It has yellow high dorsal and anal fin and yellow marked finlets which can distinguish it easily.

- Common species found in shallow coastal waters. Distinguish by long pectoral fin and long caudal peduncle.



Tuna species (contd..)

- A common species found in all tropical seas generally off shore. Distinguish with wide stripe under lateral line on belly.



Frigate tuna



Skipjack

- Most common species found in coastal waters. Distinguish with broken oblique thin stripes on upper side of the lateral line. There is a wide inter dorsal space.

Tuna species (contd..)



- A common tropical species found in the region inhabited coastal water. Distinguish with presence of continued oblique thin stripe on upper side of lateral line.

- This off shore species seldom caught in Pakistan waters.. Distinguish by presence of stripe on upper side of the later line.



DATA AND METHODS:

- This study is based on species composition landed in the coastal area of Pakistan. The method used for this study is based on statistical data provided by the provincial Government of Balochistan and Sindh. Besides, Monday, Thursday and Friday were selected days for obtaining data, observations and interviews of fishermen on board the tuna fishing boats.
- A three member departmental team visited the Karachi fish harbor in the early time. Interviews of fishermen were taken on different aspects like, name of the boat, number of the days of fishing operation, area of fishing, fish composition, by-catch, etc. The length measurement of tuna species was also obtained.

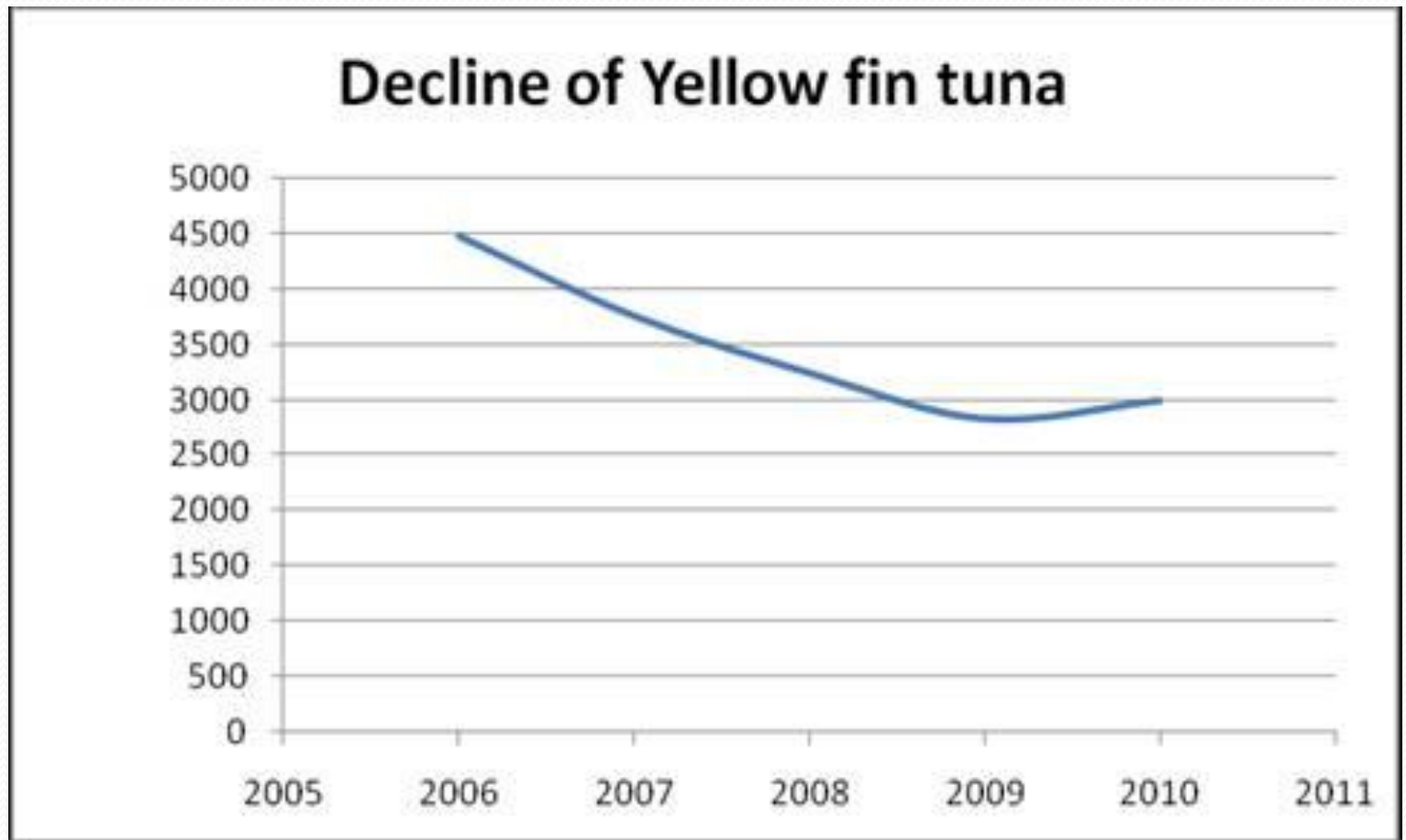
Production of tuna species

(2006-2010)

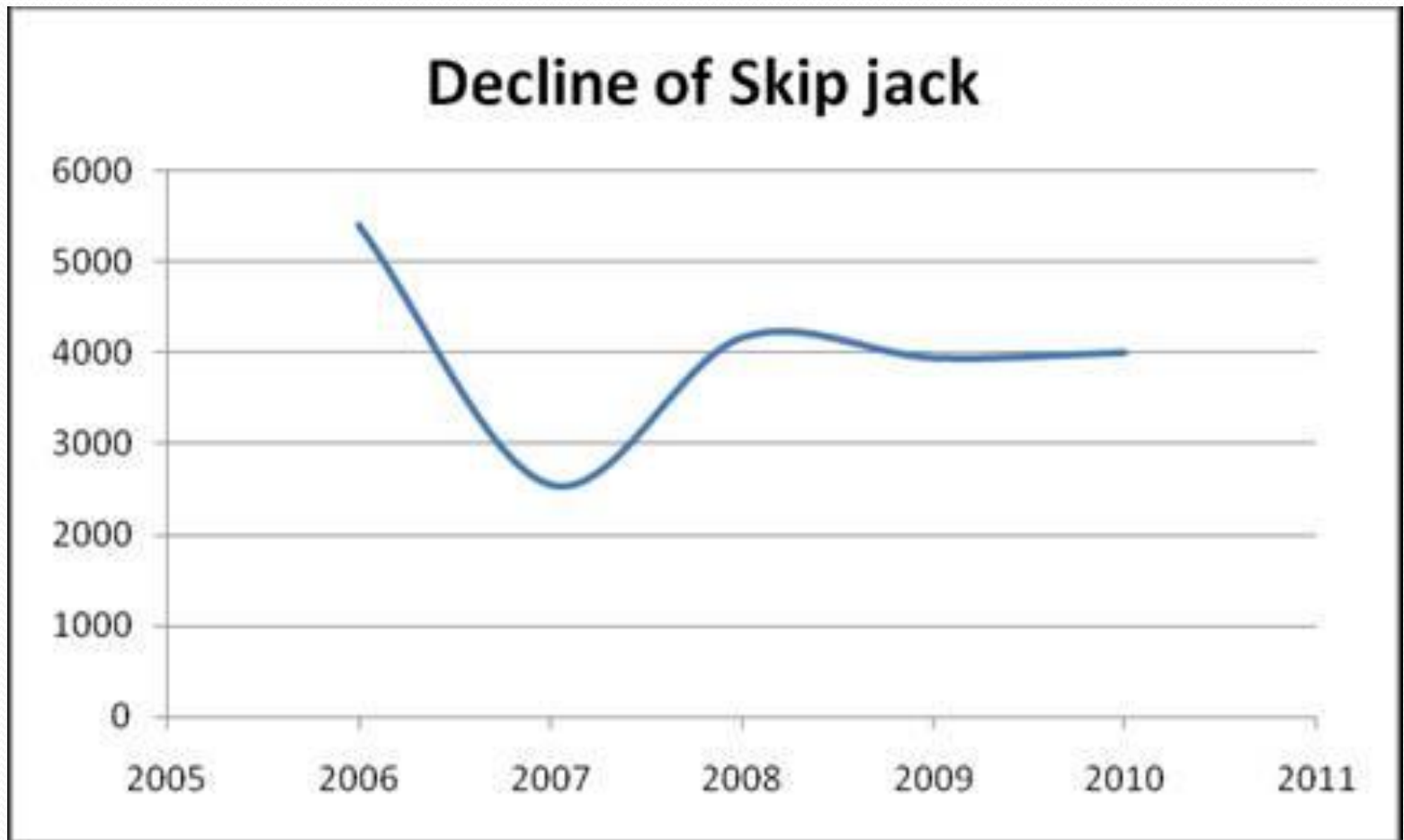
Year	TYPE GEAR	YFT	SKJ	KAW	LOT	FRI
2006	GILL	4,486	5,402	10,664	9,021	3,112
2007	GILL	3,765	2,546	11,285	13,100	1,745
2008	GILL	3,251	4,165	13,170	13,800	2,924
2009	GILL	2,836	3,943	14,893	13,920	3,219
2010	GILL	3,000	4,000	14,000	14,000	3,000

Catches of Yellowfin tuna

(2006-2010)

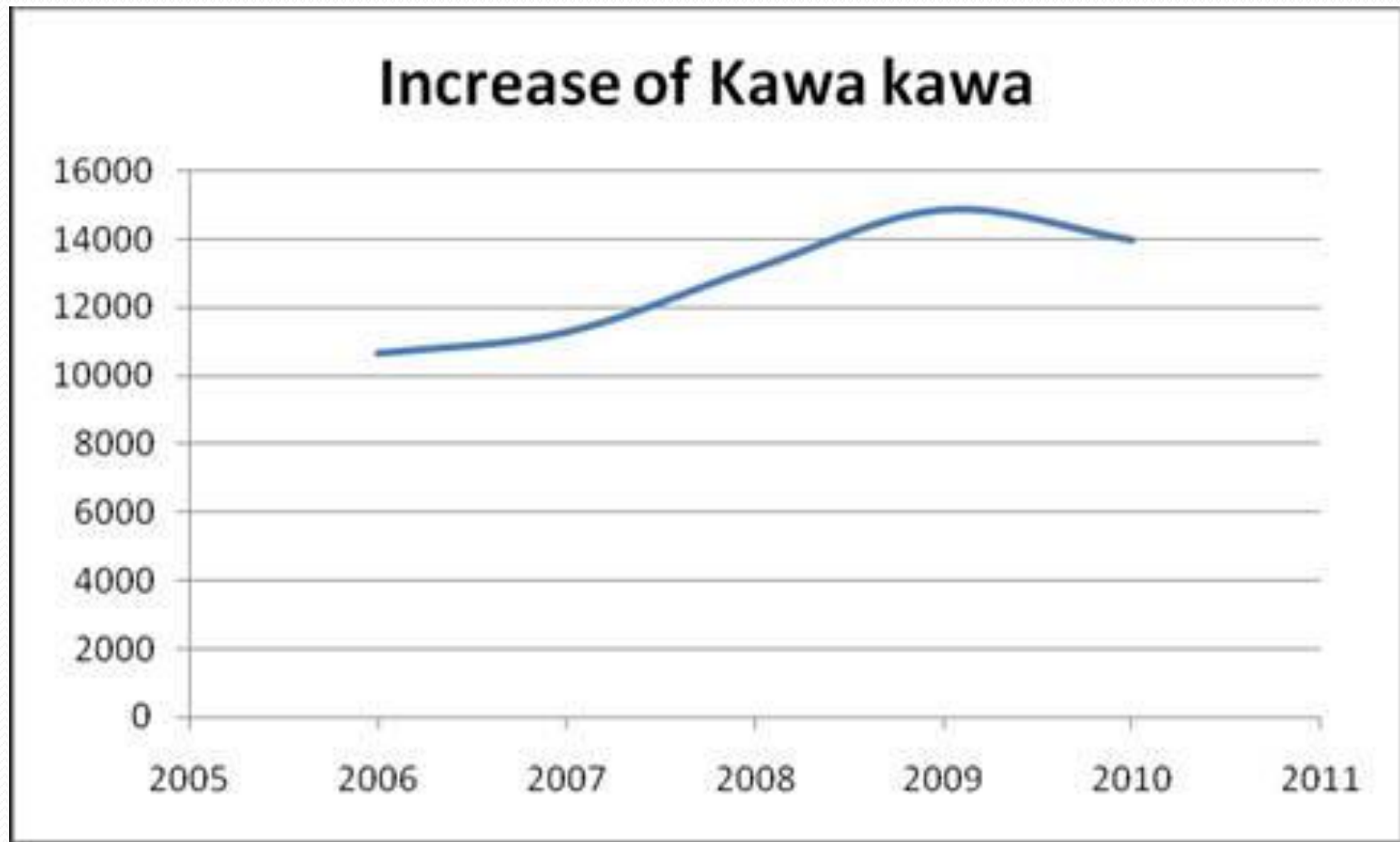


Catches of skipjack (2006-2010)



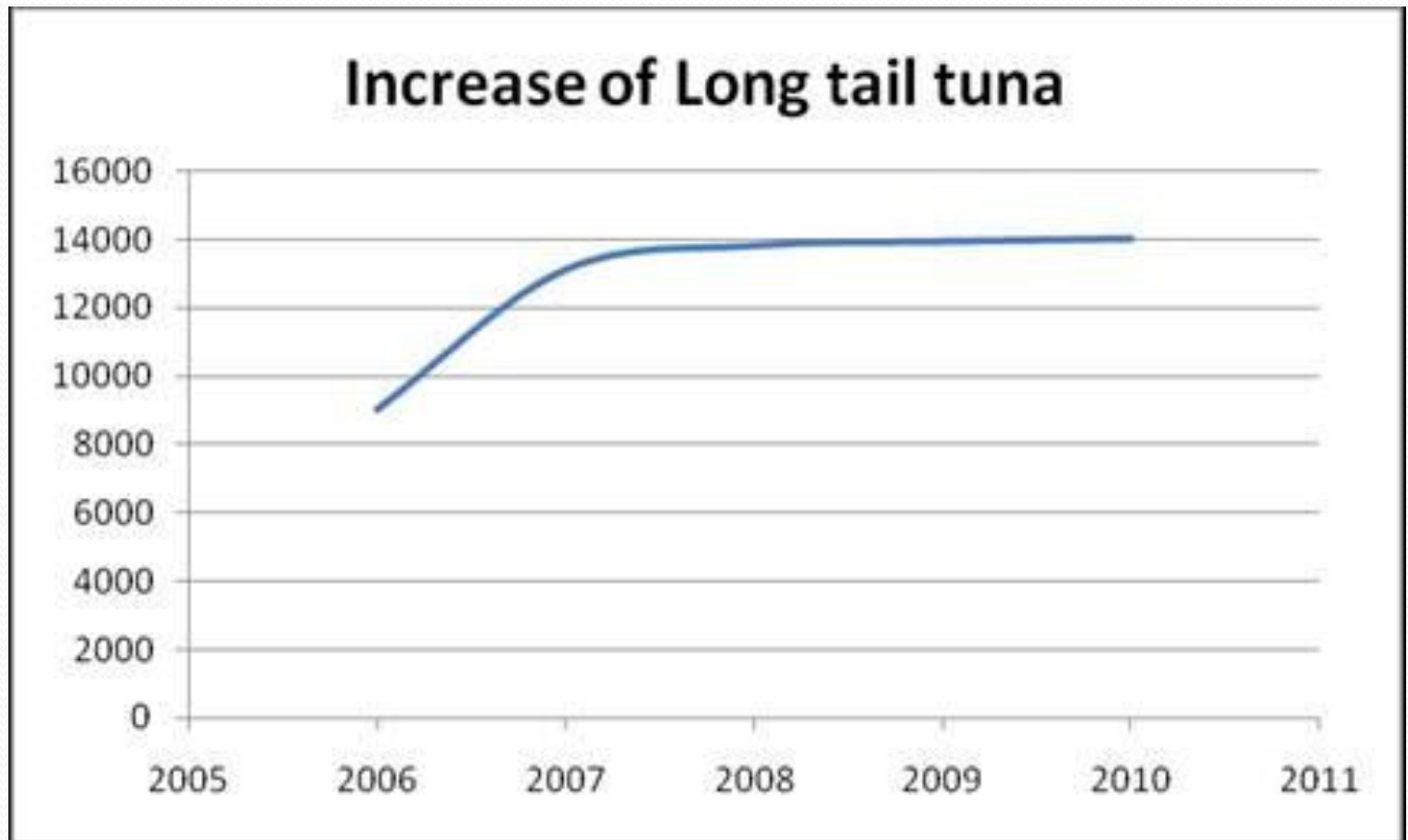
Catches of Kawakawa

(2006-2010)



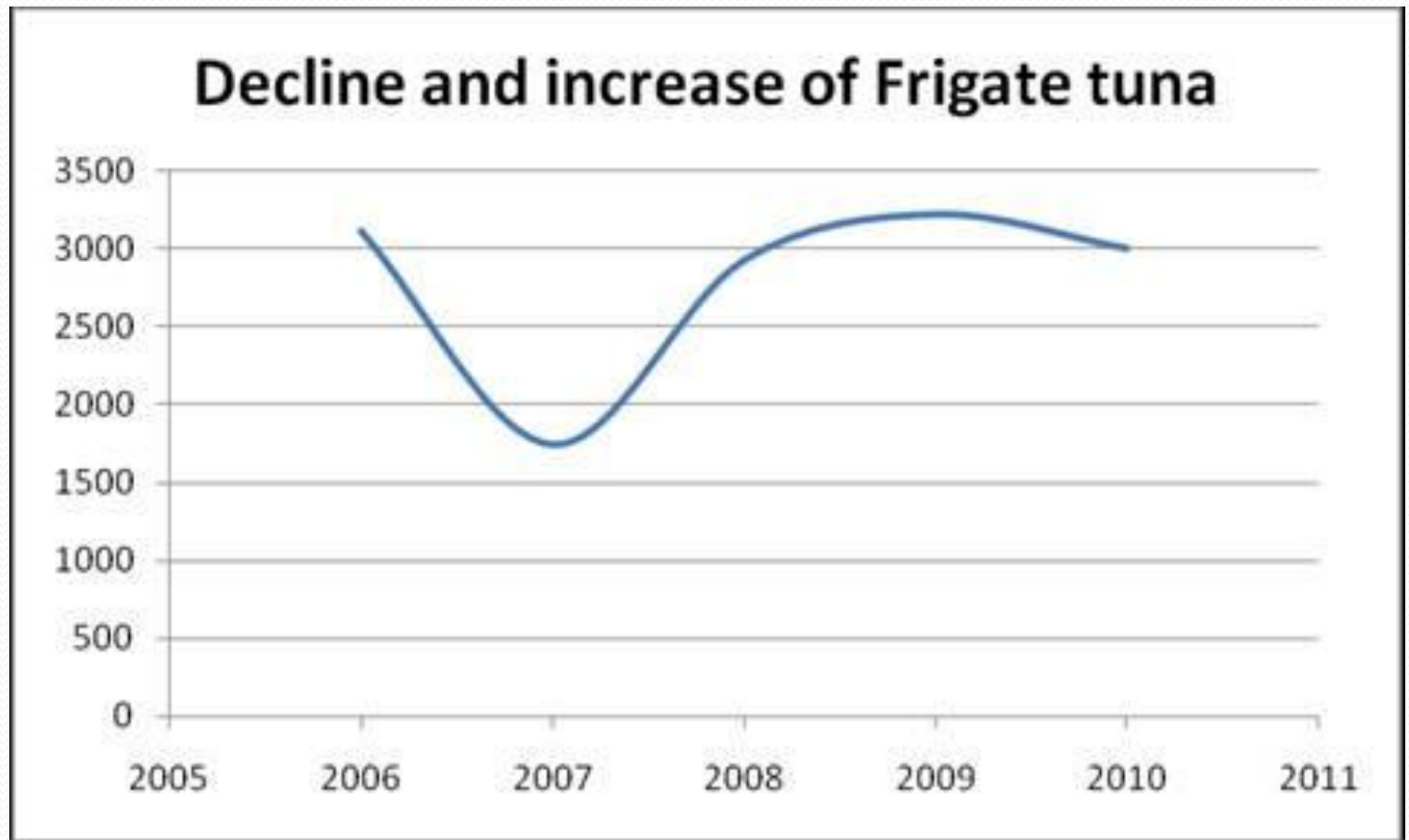
Catches of longtail tuna

(2006-2010)



Catches of Frigate tuna

(2006-2010)



Comparison of size measurement

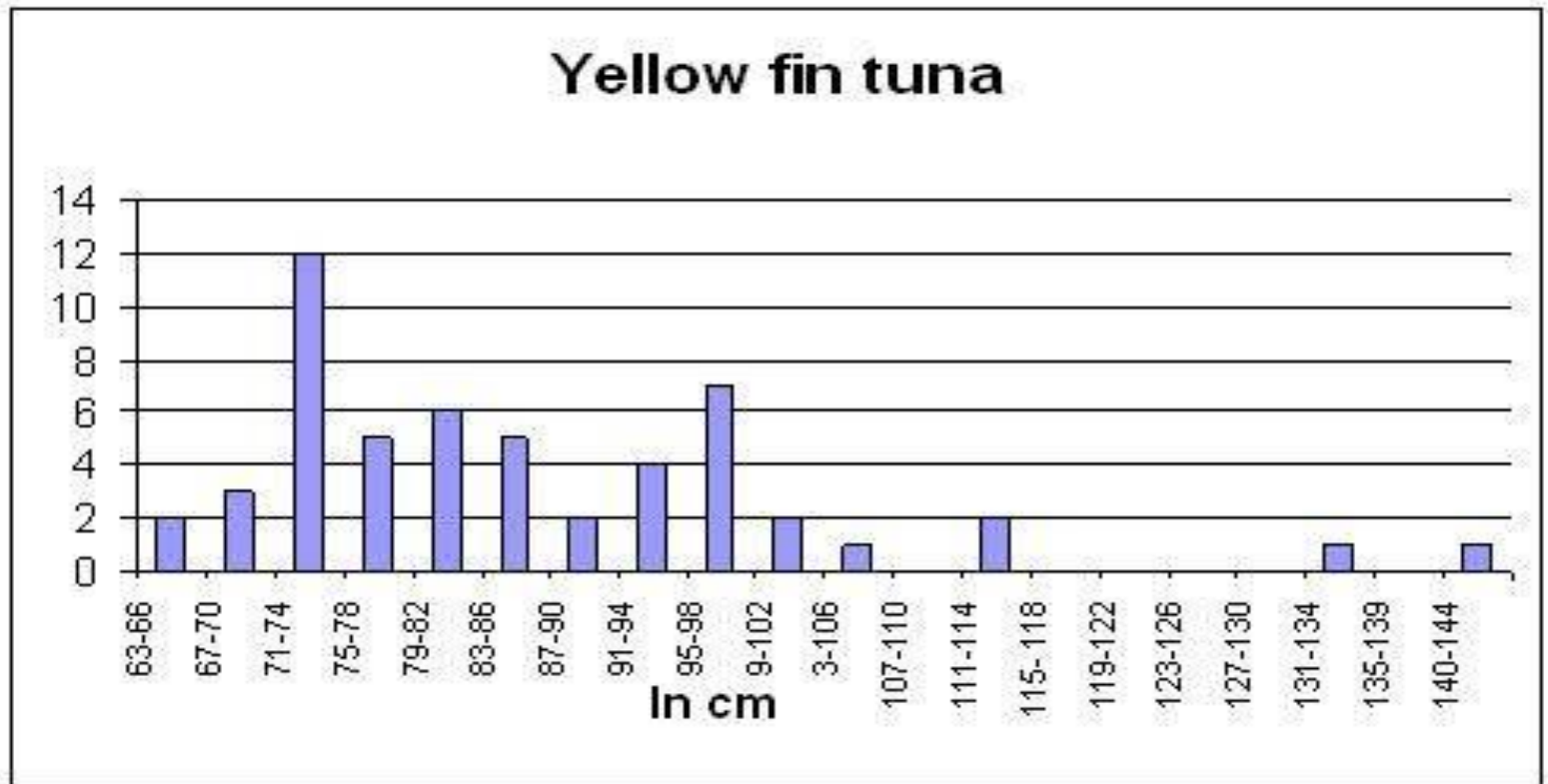
2010

S.No	Fish Name	Minimum Size	Maximum Size	Average Size
1	Yellow fin tuna	63	140	74
2	Skip jack	37	68	52
3	Kawa kawa	37	62	54
4	Long tail tuna	46	68	62
5	Frigate tuna	24	43	36

1987

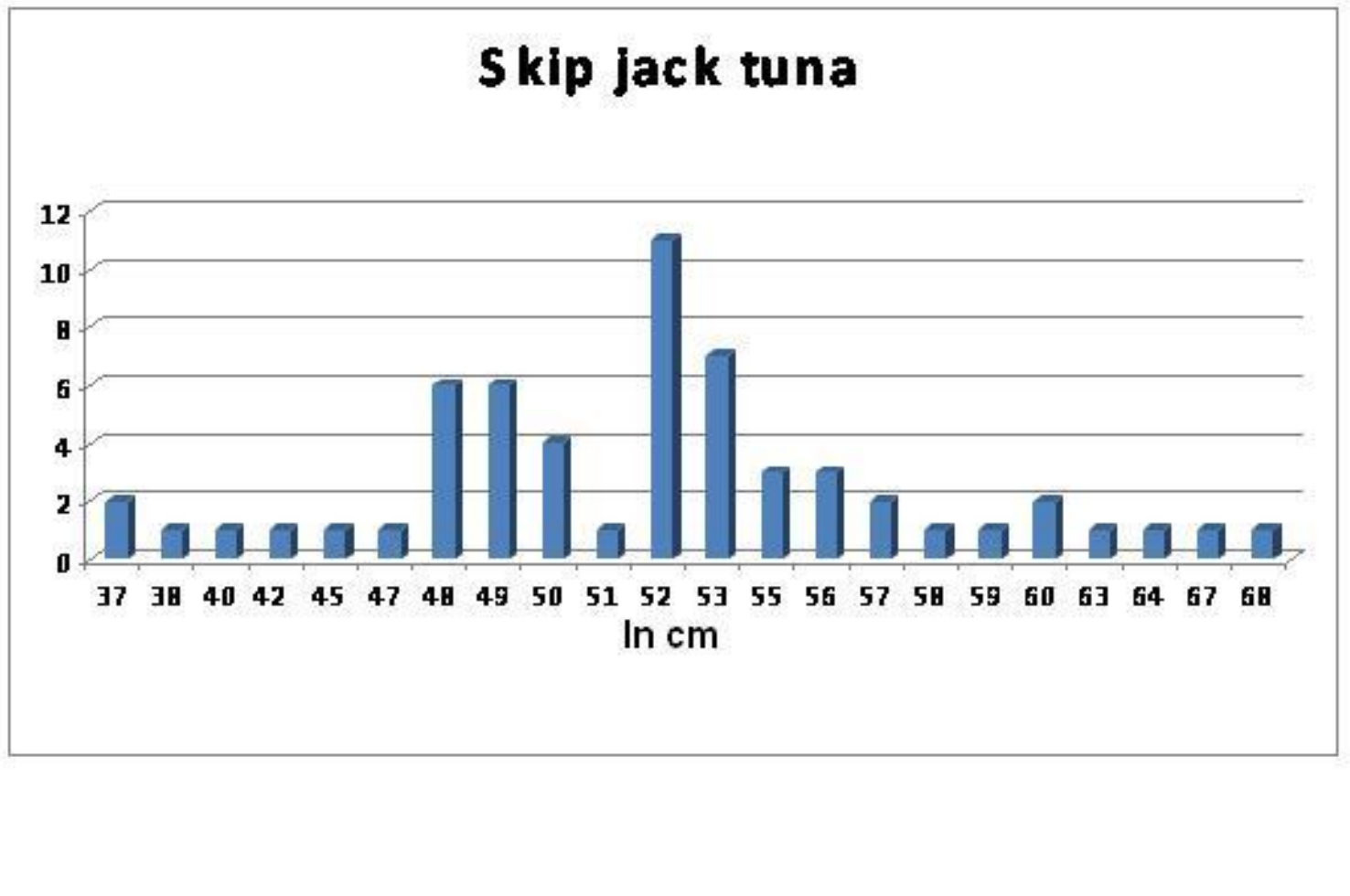
S.No	Fish Name	Minimum Size	Maximum Size	Average Size
1	Yellow fin tuna	50	190	110 to 120
2	Skip jack	50	80	70
3	Kawa kawa	35	85	60
4	Long tail tuna	45	100	75

Size frequency of yellowfin (2010)



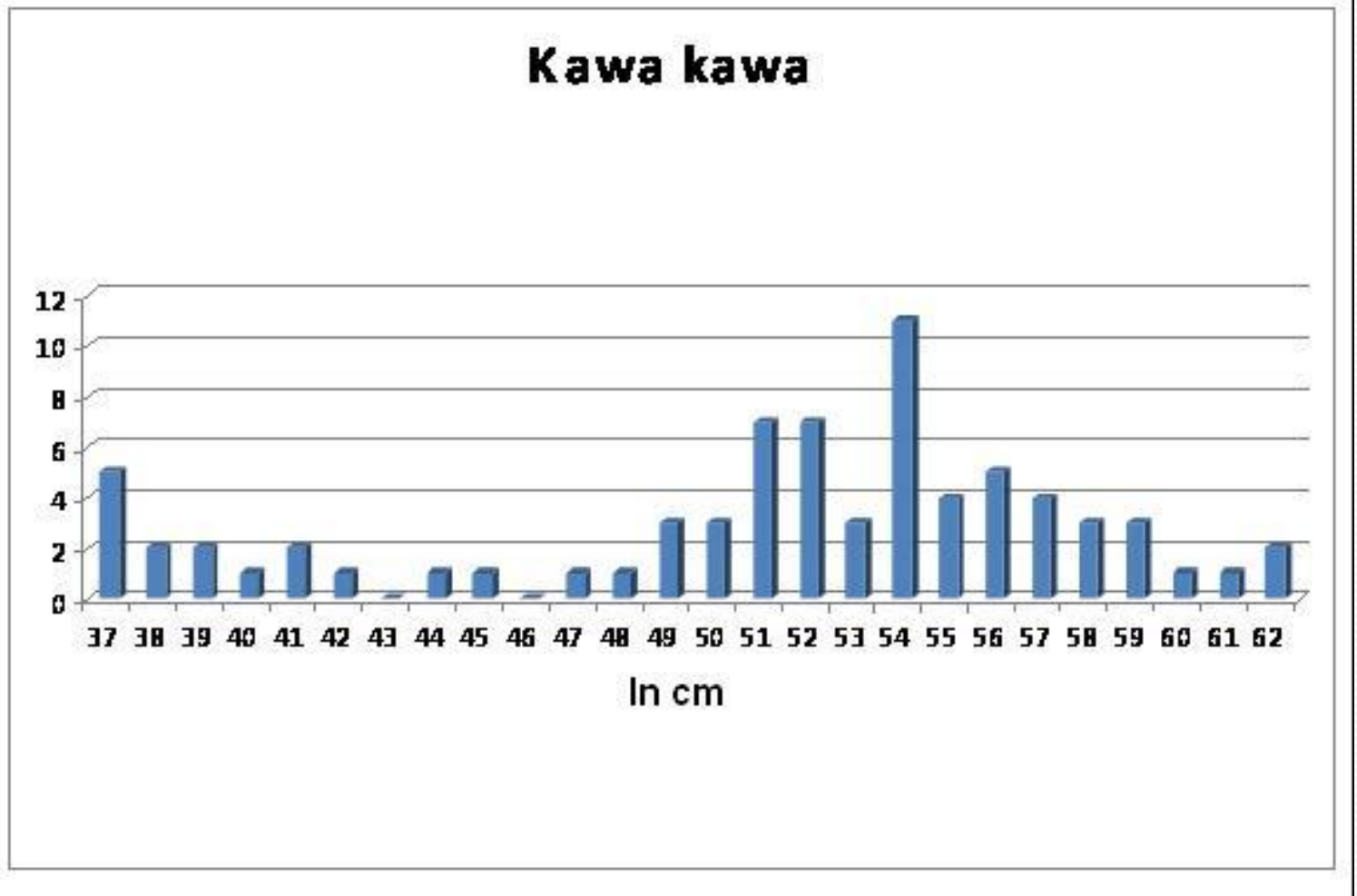
Size frequency of skipjack

(2010)

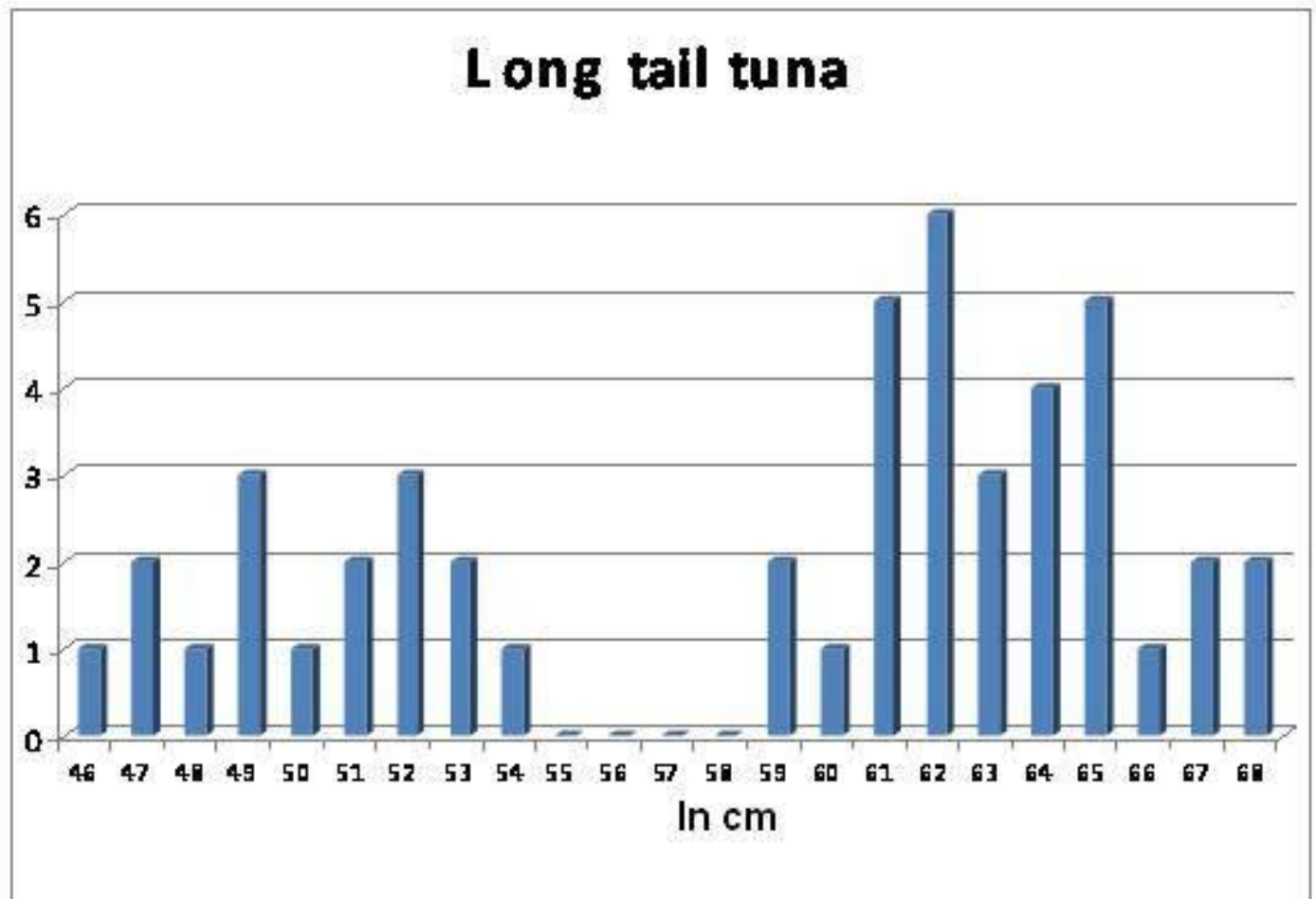


Size frequency of Kawakawa

(2010)

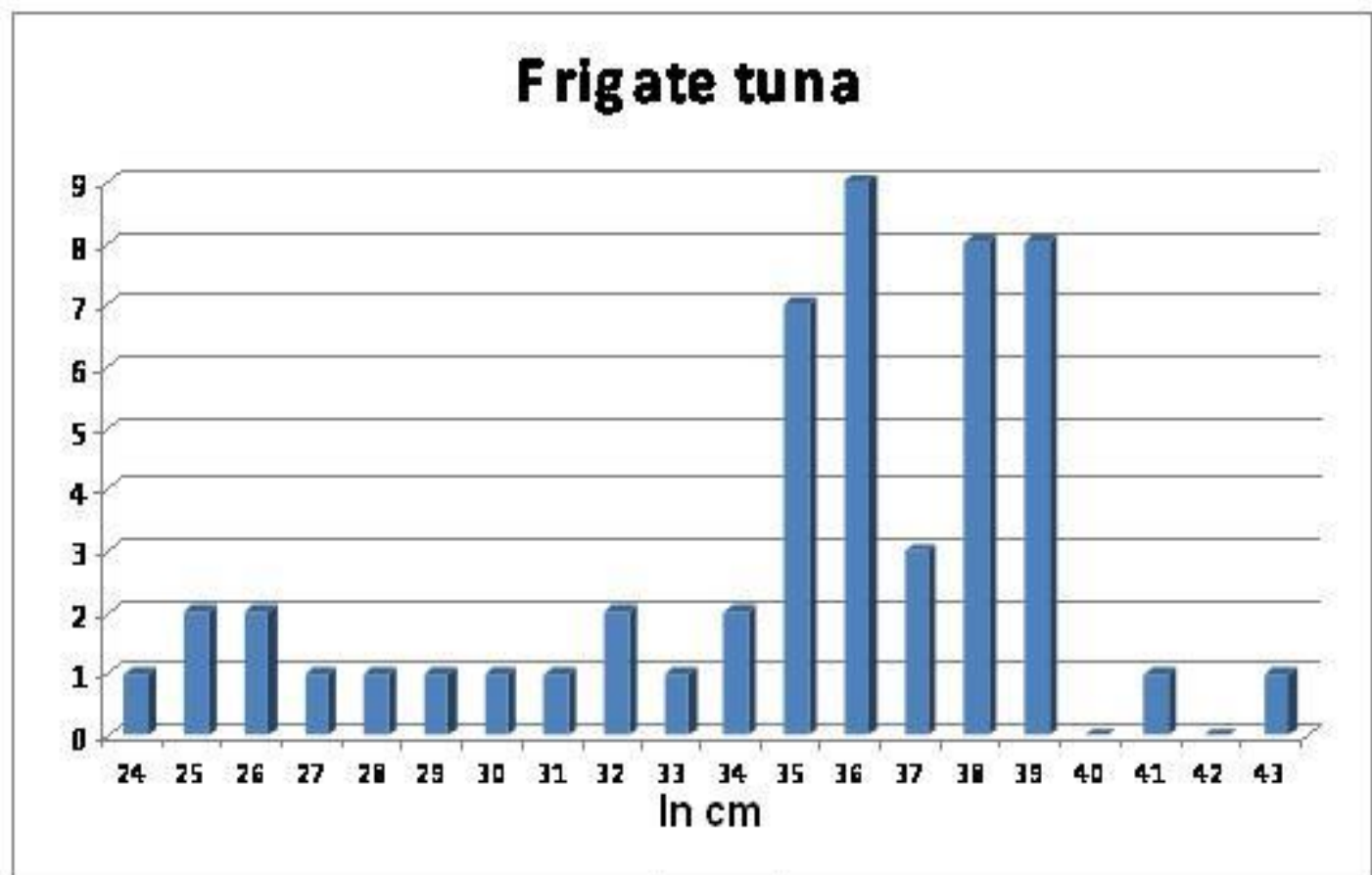


Size frequency of Longtail (2010)



Size frequency of Frigate tuna

(2010)



Conclusion

- The Study shows that off shore tuna species particularly Yellow fin and skipjack tunas are declining; whereas, there seems no threat to other species as the catch rates are normal but result of length measurement clearly shows the decline of size in all species.

Reference:

- A overview of tuna fishery of Pakistan by Jameel Ahmed, Marine Fisheries Department. Report of the workshop on tuna and seerfishes in the North Arabian Sea region, Muscat of Oman 7-9 February 1989.



Thank You

A large, bold, dark blue text reading "Thank You" is centered on the slide. The text has a thin yellow outline. Behind it is a faint, light gray shadow of the same text. The background is white with decorative blue and white wavy lines at the top.