

The data being used is called fishing.xlsx on catches by 151 fishing boats over four trips, including catch size, sea conditions, depth of fishing grounds, skipper experience and various boat characteristics such as age, equipment, and fishing location. Accordingly, this report will analyse two tables and one bar graph to answer three research questions and show the number of new boats in shallow areas, the percentage of above-average equipment which had the sophisticated search and above-average equipment more likely to be in the East port.

**Research question 1:** What is the total number of new boats in shallow areas?

Count of Age of boat	Depth		Grand Total
	deep	shallow	
new	25	57	82
old	26	44	70
<b>Grand Total</b>	<b>51</b>	<b>101</b>	<b>152</b>

Figure 1: The number of new and old boats in deep and shallow areas. This table highlights that there were more new boats fishing in shallow areas compared to old boats.

**Research question 2:** Are boats with above-average equipment more likely to be in the East port or West port?

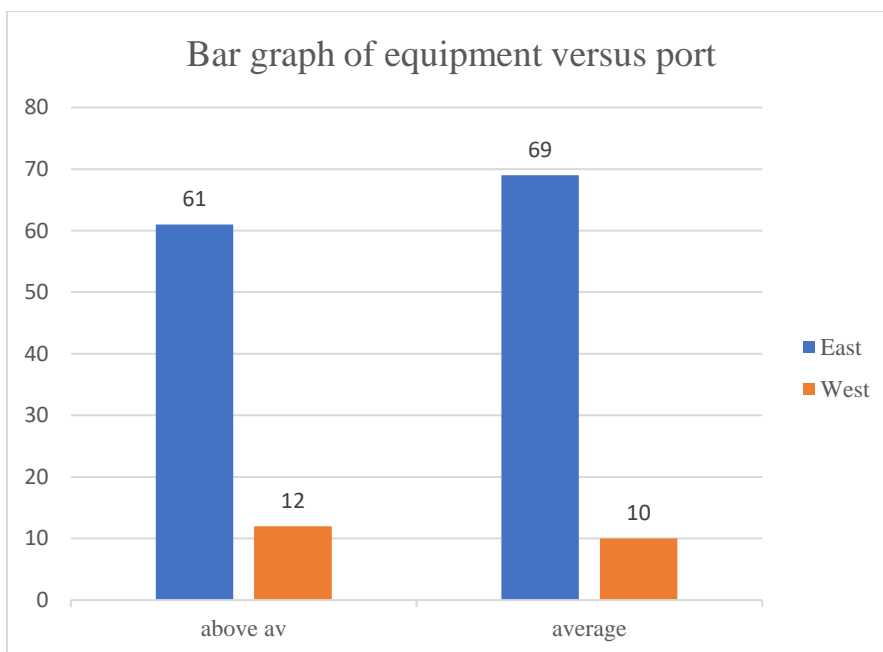


Figure 2: The number of boats with above-average and average equipment in the East port and West port. This bar graph highlights that boats with both above-average and average equipment are more likely to be in the East port.

**Research question 3:** In above-average equipment, what percentage of equipment had the sophisticated search?

Count of Equipment Equipment	Search		Grand Total
	adequate	sophisticated	
above av	26.03%	73.97%	100.00%
average	63.29%	36.71%	100.00%
<b>Grand Total</b>	<b>45.39%</b>	<b>54.61%</b>	<b>100.00%</b>

Figure 3: The percentage of equipment which had adequate and sophisticated search in above-average equipment and in average equipment. This table highlights a higher percentage of above-average equipment had sophisticated search, while a higher percentage of average equipment had only adequate search.

In summary, the first question asks about the total number of new boats in shallow areas. Looking at the first table, it can be seen that out of 101 boats in shallow areas, 57 are new and 44 are old, so the total number of new boats in shallow areas is 57. The second question is about boats with above-average equipment being more likely to be in the East port or West port. From the second bar graph, the number of boats with above-average equipment in the East port is 61 compared to 12 in the West port, so boats with above-average equipment are more likely to be in the East port. The third question asks about the percentage of equipment that had the sophisticated search among above-average equipment. From the third table, in 100% of the above-average equipment, we have 73.97% of equipment with sophisticated search and 26.03% of those with adequate search, so the percentage of equipment that had the sophisticated search in above-average equipment is 73.97 %.