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**APPENDIX: SURVEY QUESTIONNAIRE**

**COMPARATIVE ANALYSIS OF THE PERFORMANCE OF PURSE SEINE AND  
DRIFT GILL TECHNOLOGIES AMONG ARTISANAL MARINE FISHERS IN THE  
CENTRAL REGION OF GHANA**

TOPIC

PERFORMANCE OF PURSE SEINE AND DRIFT GILL NET TECHNOLOGIES AMONG  
ARTISANAL MARINE FISHING FIRMS IN CENTRAL REGION OF GHANA

PREAMBLE:

This is a research work of MPhil Agribusiness student of University of Ghana. You are humbly requested to help provide all necessary answers to each question below. NB: All information given would be treated confidential and only be used for the purpose stated above.

Serial Number: 

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Date of interview 

<i>d</i>	<i>d</i>	<i>m</i>	<i>m</i>	<b>2</b>	<b>0</b>	<b>1</b>	<b>6</b>
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A. INTRODUCTION

Name of Enumerator.....

District.....

Community/Village/Town.....

Name of Respondent.....

Telephone Number 

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Type of Fishing Technology.....**1= Purse Seine** [ ]      **2= Drift Gill Net** [ ]

**Certified by**..... (Sign only after questionnaire is complete)

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**B. DEMOGRAPHIC AND SOCIOECONOMIC CHARACTERISTICS OF OWNER**

1. What is the gender of fishing firm's owner?      1= Male [ ]      2= Female [ ]
2. Age? .....years
3. Marital status? 1= Single [ ]    2= Married [ ]    3= Divorced[ ]    4=Separated [ ]  
5= Widowed [ ]
4. Household size? 1= male Children (<18yrs) [ ]    2= female Children (<18yrs) [ ]  
3= male Adult (>18yrs) [ ]    4= female Adult (>18yrs) [ ]
5. Religious background?    1= Muslim [ ]    2= Christian [ ]    3=Traditionalist [ ]  
4= Otherwise (specify.....)
6. Ethnic group.....
7. Ownership of the fish farm:    1= Solely owned [ ]    2= Family [ ]    3= Group owned [ ]  
4 = Other (Specify).....
8. How did you enter into the fishing business? 1= Inheritance [ ]  
2= Personal Investment [ ]    3= Otherwise (specify.....)
9. Maximum level of education? 1= No schooling [ ]    2= Primary [ ]    3=JHS/MSLC [ ]  
4= SHS/TECH/VOC [ ]    5= Tertiary [ ]
10. How many years did you spend to attain your maximum education level? .....years
11. What is your major occupation? 1= Fishing [ ]    2= Trading [ ]    3= Salary worker [ ]  
4= Otherwise (specify.....)
12. Do you engage in any other work?      1= Yes [ ]      2= No [ ]
13. If yes, then specify.....
14. Have you undergone any technical fishing education before? 1= Yes [ ]    2= No [ ]
15. If Yes then specify.....
16. How many years have you been in the fishing business? .....years
17. What motivated you into the fishing business? .....  
.....  
.....
18. What informed your decision to choose this community for the fishing business? .....  
.....  
.....

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19. What informed your choice of fishing technology? .....
- .....
- .....
- .....
20. What is the total number of crew employed per trip? .....crew
21. Are you a member of any fishing Association? 1= yes [ ] 2= No [ ]
22. If yes, specify.....
23. Are you a native of this community? 1= Yes [ ] 2= No [ ]
24. If No to question 19 above specify where you come from.....
25. How did you become a fisher in this community? .....
- .....
- .....
26. Do you have access to credit? 1 = Yes 2 = No
27. If yes; which of the following sources do you receive credit from? 1 = Personal saving [ ]
- 2 = Family and/or Relatives [ ] 3 = Commercial banks [ ]
- 4 = Microfinance institutions [ ] 5 = Money lenders [ ]

**C. PRODUCTION SYSTEM AND LEVEL OF INPUTS**

**C1. Variable inputs use per one fishing trip**

24. Please help provide the age and gender distribution of crews employed per one fishing trip?

**Main Season**

**Main Season**

Age group of crew	Hired Labour	family Labour	No. of people	Work days per week	No. of trips per day	hours of work per day	Rate per hrs or day	Wage per month if permanent
Male<18								
Female<18								
Male>18								
Female>18								
Total								

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**Lean Season**

Age group of crew	Hired Labour	family Labour	No. of people	Work days per week	No. of trips per day	hours of work per day	Rate per hrs or day	Wage per month if permanent
Male<18								
Female<18								
Male>18								
Female>18								
Total								

**Pre-mix fuel use per one fishing trip**

25. What is the source of the pre-mix fuel you use for fishing?.....
26. How often do you get access to the pre-mix fuel?            1= Daily [ ]            2= Weekly [ ]  
3= Fortnight [ ]    4= Monthly [ ]    5= Otherwise (specify.....)
27. What is the unit of measurement? 1= Gallon [ ] 2= Litres [ ] 3= Bowl [ ] 4= Tins [ ]
28. If answer to question 27 either 3 or 4; what is the equivalent of one in gallon..... or liters?.....
29. How much is one unit of the pre-mix fuel? .....(GH¢)
30. How many units of pre-mix does it take to complete the fishing operations at the fishing ground?  
.....
31. What do you do during shortage of pre-mix fuel? .....  
.....
32. How much do spend on the above stated alternative?.....(GHC)

**Duration per one fishing trip:**

33. What time within the day do you set in for fishing? .....
34. How many minutes or hours do you spend to sail from the beach to the fishing ground?.....mins/hrs
35. At what depth of the sea do embark on the fishing?.....Phantom
36. What is the total time spent between casting and hauling of the net?.....mins/hrs
37. How many minutes or hours does it take to return from the fishing ground to the beach....mins/hrs?
38. What time do you normally return from the fishing to the beach? .....

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**C3 FIXED INPUTS USE PER ONE FISHING TRIP**

**Canoe expenses per one fishing trip**

39. Which type of fishing canoe do you use? 1= Small size one man canoe [ ]  
 2= Medium size lines and nets canoes [ ] 3= Large ali poli canoes [ ] 4= Large beach seine canoes [ ]
40. How did you acquire your fishing canoe? 1= Purchased [ ] 2= Inheritance [ ]  
 3= Hired [ ] 4= Otherwise (specify.....)

**Continue question 41 to 49; if respondent answered 3 and/ or 4 to question 40, skip to question 50 if otherwise**

41. Where do you hire the canoe? .....
42. What is the system of hiring (terms)? 1= Amount per hour [ ] 2= Amount per trip [ ]  
 3= Amount per day [ ] 4= Otherwise (specify.....)
43. What is the mode of payment? 1= Cash [ ] 2= Kind [ ]
44. If answer to question 43 is **1= cash**, how much do you pay for using the canoe per one term of contract? ..... (GH¢)
45. If answer to question 43 is **2= Kind** (specify.....)
46. Find the equivalent in monetary term.....(GH¢)
47. Do you bare any maintenance cost of the canoe? 1= Yes [ ] 2= No [ ]
48. What is the routine maintenance schedule? 1= per trip [ ] 2= Daily [ ] 3= Weekly [ ]  
 4= Monthly [ ] 5= Otherwise (specify.....)
49. How much do you pay for one maintenance schedule? .....(GH¢)
50. Where did you purchase your canoe? .....
51. When did you purchase you canoe? ...../...../.....
52. How much did you spend to acquire the canoe? .....(GH¢)
53. What source of fund did you use to acquire the canoe? 1= personal savings[ ]  
 2= Loan from friends and relatives [ ] 3= Loan from bank [ ] 4= Money lenders [ ]

**Continue from question 54 to 61; if respondent answered 2 and/or 3 and/or 4 to question 53 or skip to question 62 if otherwise**

54. What is the name of the institution or money lender? .....
55. What is the interest rate? .....per annum.
56. What is the repayment duration? From ...../...../..... to ...../...../.....

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57. What is the repayment system?                    1= Cash payment [ ]                    2= Kind payment
58. What is the repayment schedule?   1= per trip [ ]    2= per day [ ]    3= per month [ ]
59. How much do you pay in cash? .....(GH¢)
60. If answer to question 62 is **57= Kind** (specify.....  
.....  
.....)
61. Find the equivalent in monetary term.....(GH¢)
62. When did you start using the canoe..... /..... /.....
63. How many years do you think the canoe will last? .....years
64. What is the routine maintenance schedule? 1= per trip [ ]   2= Daily [ ]    3= Weekly [ ]  
4= Monthly [ ]    5= Otherwise (specify.....)
65. How much do you pay for one maintenance schedule? .....(GH¢)
66. How much will you spend to acquire a new canoe currently? ..... (GH¢)

**Outboard motor expenses for one fishing trip**

67. Which brand of outboard motor engine do you use?   1= Yamaha [ ]                    2= Chrysler [ ]  
3= Johnson [ ]    4= Otherwise (specify.....)
68. What is the horse power of the outboard motor?.....hp
69. How did you acquire your outboard motor?                    1= Purchased [ ]                    2= Inheritance [ ]  
3= Hired [ ]    4= Otherwise (specify.....)

**Continue question 70 to 78; if respondent answered 3 and/ or 4 to question 69, skip to question 84 if otherwise**

70. Where do you hire the outboard motor? .....
71. What is the system of hiring?                    1= Amount per hour [ ]                    2= Amount per trip [ ]  
3= Amount per day [ ]                    4= Otherwise (specify.....)
72. What is the mode of payment?                    1= Cash [ ]                    2= Kind [ ]  
Otherwise (specify.....)
73. If answer to question 72 is **1= cash**, then how much do you pay for using the outboard motor per one term of contract?..... (GH¢)
74. If answer to question 72 is **2= Kind or 3=otherwise**, (specify.....  
.....)
75. Find the equivalent in monetary term.....(GH¢)



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76. Do you bare any maintenance cost of the outboard motor? 1= Yes [ ] 2= No [ ]
77. What is the routine maintenance schedule? 1= per trip [ ] 2= Daily [ ] 3= Weekly [ ]  
4= Monthly [ ] 5= Otherwise (specify.....)
78. How much do you pay for one maintenance schedule? .....(GH¢)
79. Where did you purchase your outboard motor? .....
80. When did you purchase it? ...../...../.....
81. How much did you buy the outboard motor? .....(GH¢)
82. What source of fund did you use to acquire the outboard motor? 1= personal savings[ ]  
2= Loan from friends and relatives [ ] 3= Loan from bank [ ] 4= Money lenders [ ]
- Continue from question 83 to 90; if respondent answered 2 and/or 3 and/or 4 to question 82, skip to question 91 if otherwise**
83. What is the name of the institution or money lender? .....
- .....
84. What is the interest rate? .....per annum.
85. What is the repayment duration? From ...../...../..... to ...../...../.....
86. What is the repayment system? 1= Cash payment [ ] 2= Kind payment [ ]  
3= Otherwise (specify.....)
87. What is the repayment schedule? 1= per trip [ ] 2= per day [ ] 3= per month [ ]
88. How much do you pay in cash? .....(GH¢)
89. If answer to question 86 is **2= Kind or 3=otherwise**, (specify.....  
.....  
.....)
90. Find the equivalent in monetary term.....(GH¢)
91. What is the current price of the outboard motor? ..... (GH¢)
92. When did you start using the outboard motor..... /..... /.....
93. How many years do you think the outboard motor will last? .....years
94. What is the routine maintenance schedule? 1= per trip [ ] 2= Daily [ ]  
3= Weekly [ ] 4= Monthly [ ] 5= Otherwise (specify.....)
95. How much do spend on one maintenance schedule? .....(GH¢)

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**Details of Fishing Net and expenses per one fishing trip**

96. What type of material is your fishing net made of? 1= Cotton [ ] 2= Nylon [ ]  
3= Linen [ ]

97. What is the mesh size of your fishing net? .....millimetres

98. What is the yarn size of your fishing net? .....R

99. What is the length of the fishing net? .....metres

100. What is the height of the fishing net?.....metres

101. How did you acquire your fishing net? 1= Purchased [ ] 2= Inheritance [ ]  
3= Hired [ ] 4= Otherwise (specify.....)

**Continue question 102 to 110; if respondent answered 3 and/ or 4 to question 101, skip to question 111 if otherwise**

102. Where do you hire the fishing net? .....

103. What is the system hiring? 1= Amount per hour [ ] 2= Amount per trip [ ]  
3= Amount per day [ ] 4= Otherwise (specify.....)

104. What is the mode of payment? 1= Cash [ ] 2= Kind [ ]  
3= Otherwise (specify.....)

105. If answer to question 104 is **1= Cash**, then how much do you pay for using the fishing net per one term of contract? ..... (GH¢)

106. If answer to question 104 is **2= Kind or 3= Otherwise** (specify.....  
.....  
.....)

107. Find the equivalent in monetary term.....(GH¢)

108. Do you bare any maintenance cost of the fishing net? 1= Yes [ ] 2= No [ ]

109. What is the routine maintenance schedule? 1= per trip [ ] 2= Daily [ ]  
3= Weekly [ ] 4= Monthly [ ] 5= Otherwise (specify.....)

110. How much do you pay for one maintenance schedule? .....(GH¢)

111. How much did you spend to acquire the fishing net? .....(GH¢)

112. What source of fund did you use to acquire the fishing net? 1= personal savings[ ]  
2= Loan from friends and relatives [ ] 3= Loan from bank [ ] 4= Money lenders [ ]

**Continue from 118 to 121; if respondent answered 2 and/or 3 and/or 4 to question 112, skip to question 122 if otherwise**

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113. What is the name of the institution or money lender? .....
- .....
114. How much did you receive? ..... (GH¢)
115. At what interest rate? .....per annum.
116. What is the repayment duration? From ...../...../..... to ...../...../.....
117. What is the repayment system? 1= Cash payment [ ] 2= Kind payment [ ]
118. What is the repayment schedule? 1= per trip [ ] 2= per day [ ] 3= per month [ ]
119. How much do you pay in cash? .....(GH¢)
120. If answer to question 117 is **2= Kind** (specify.....
- .....)
121. Find the equivalent in monetary term.....(GH¢)
122. When did you start using the fishing net? ...../...../.....
123. How many years do you think the fishing net will last? .....years
124. What is the routine maintenance schedule? 1= per trip [ ] 2= Daily [ ]
- 3= Weekly [ ] 4= Monthly [ ] 5= Otherwise (specify.....)
125. How much do spend for one maintenance schedule? .....(GH¢)

**C4. INFORMATION ON OUTPUT LEVELS PER ONE TRIP**

126. What do you use to measure your fish catch? 1= Calibrated instrument [ ]
- 2= Non-calibrated instrument [ ]
127. If answer to question 131 above is **2= Non-calibrated**, specify.....
- .....
128. What is the kilogram equivalent of one unit of the material used for measurement?
- .....Kg

Please help complete (fill) the table below

Output per one fishing trip per Season

Season	Total Qnty (Pan)	Total Qnty (bowl)	Kilogram equivalent
Main season			
Lean season			
Total			

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**Marketing Points and Price Levels of Fish**

129. Do you have access to ready market? 01 = Yes [ ] 02 = No [ ]

130. Please which of these places do you sell your catch? help complete the tables below

**Marketing Points and Price levels**

Market centres	Main season fish price					
	Pan	Unit Price	Bowl	Unit Price	Kilogram	Unit Price
On-Shore						
Beach						
Local market						
External market						
Export						
Others						

**Marketing Points and Price levels**

Market centres	Lean season fish price					
	Pan	Unit Price	Bowl	Unit Price	Kilogram	Unit Price
On-Shore						
Beach						
Local market						
External market						
Export						
Others						

131. What is your perception about the fishing business?

1 = Very Good    2 = Good    3 = Normal    4 = Poor    5 = Very Poor