

Size Frequency Distribution of Spanish Mackerel from Dockside Sampling of
Recreational and Commercial Landings in the Gulf of Mexico 1981-2011

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Size Frequency Distribution of Spanish Mackerel from Dockside Sampling of
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Introduction

Size frequency distributions of Gulf of Mexico Spanish mackerel were summarized for the Marine Recreational Fisheries Statistical Survey (MRFSS), the Texas Parks and Wildlife Department (TPWD), the NMFS, SEFSC, Beaufort Laboratory Headboat Survey (HBS), the Texas Parks and Wildlife Department (TPWD) and the NMFS, SEFSC, Trip Interview Program (TIP) size data sets through 2011.

NMFS, SEFSC, TIP

Size data for all Gulf areas are available starting in 1983 (Figure 1). A total of 27,528 Spanish mackerel were measured (Table 3). Of those, 22,897 were from Louisiana. An average of 949 fish per year was measured.

MRFSS and TPWD

Recreational size data for all Gulf areas are available starting in 1981 (Figure 2). A total of 46,325 Spanish mackerel were measured (Table 3). Of those, 25,056 were from west Florida (Table 4). An average of 1,494 fish per year was measured.

NMFS, SEFSC, Beaufort Laboratory HEADBOAT SURVEY

Size data for all Gulf areas are available starting in 1983 (Figure 2). A total of 1086 Spanish mackerel were measured (Table 5). Of those, 591 were from Texas (Table 6). An average of 42 fish per year was measured.

Table 1.—Number of Spanish Mackerel lengths samples from the TIP survey by year.

Year	N
1983	7
1984	39
1985	37
1986	98
1987	14
1988	62
1989	70
1990	96
1991	386
1992	146
1993	195
1994	138
1995	53
1996	13
1997	11
1998	37
1999	38
2000	24
2001	55
2002	167
2003	2642
2004	2401
2005	2551
2006	3206
2007	3432
2008	2766
2009	2964
2010	3796
2011	2084

Table 2.—Number of Spanish Mackerel lengths samples from the TIP survey by year.

State	n
FLW	932
AL	22897
LA	1309
MS	313
TX	2

Table 3.—Number of Spanish Mackerel lengths samples from the MRFSS survey by year.

Year	N
1981	309
1982	477
1983	652
1984	555
1985	438
1986	1087
1987	1504
1988	831
1989	971
1990	1056
1991	1193
1992	1873
1993	778
1994	1009
1995	878
1996	1070
1997	1191
1998	1474
1999	2883
2000	3115
2001	3513
2002	2172
2003	1916
2004	2416
2005	1459
2006	1908
2007	1848
2008	1882
2009	1730
2010	2052
2011	2084

Table 4.—Number of Spanish Mackerel lengths samples from the MRFSS survey by state.

State	n
FLW	25056
AL	6154
LA	765
MS	6834
TX	7515

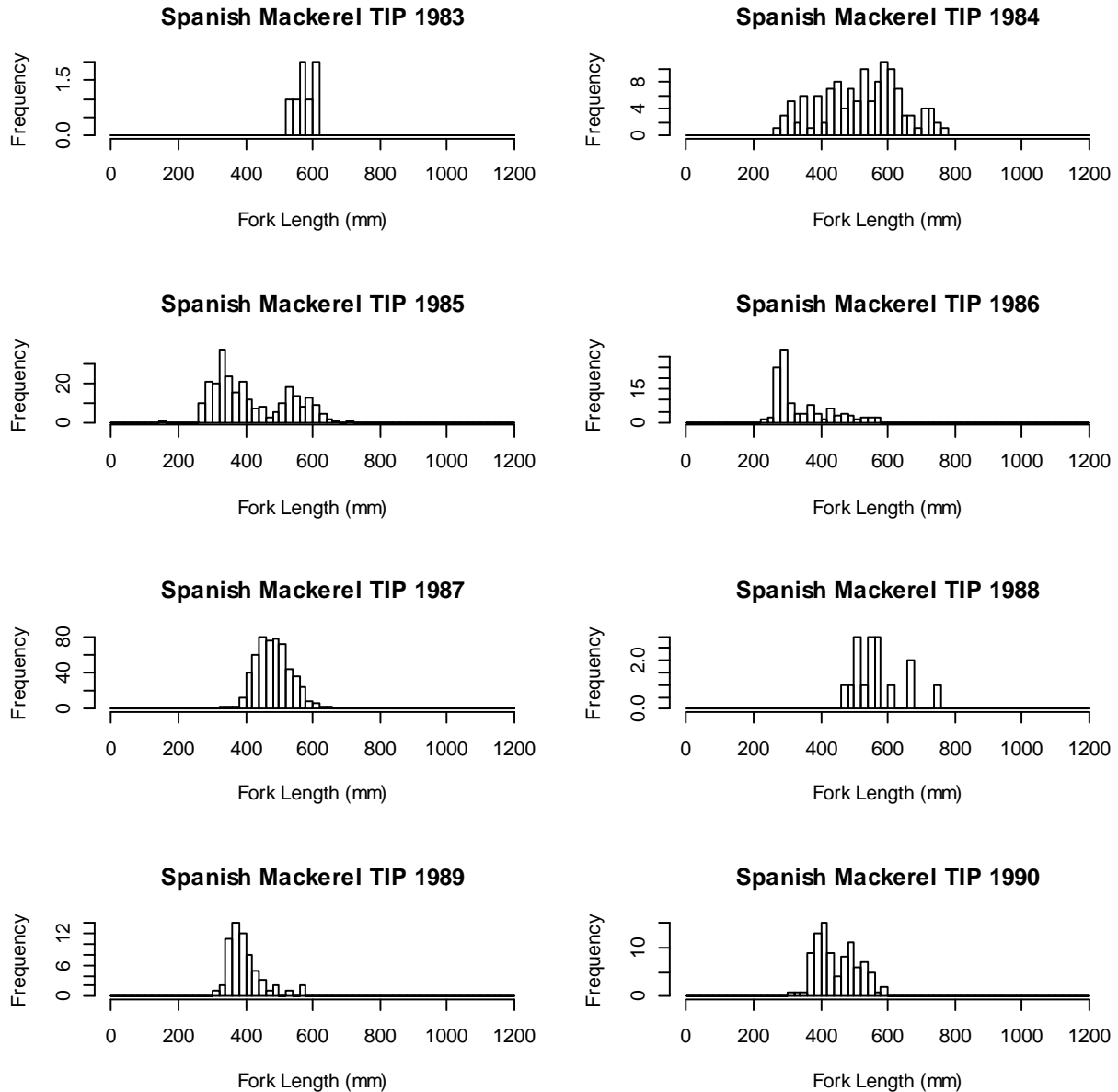
Table 5.—Number of Spanish Mackerel lengths samples from the headboat survey by year.

Year	n
1986	18
1987	15
1988	17
1989	76
1990	70
1991	97
1992	64
1993	41
1994	69
1995	63
1996	57
1997	94
1998	48
1999	38
2000	38
2001	28
2002	85
2003	34
2004	13
2005	4
2006	7
2007	12
2008	13
2009	24
2010	5
2011	54

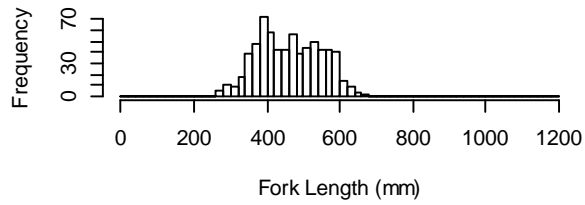
Table 6.—Number of Spanish Mackerel lengths samples from the headboat survey by area.

State	n
FLW	116
AL	83
LA	591
MS	52
TX	243

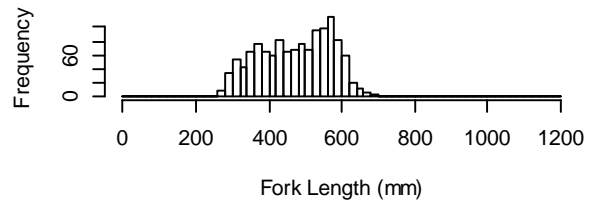
Figure 1.--Length frequency distribution of Spanish mackerel measured from headboat survey samples, 1983-2011.



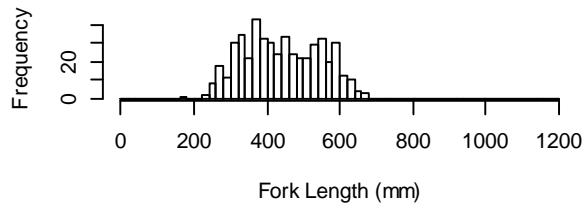
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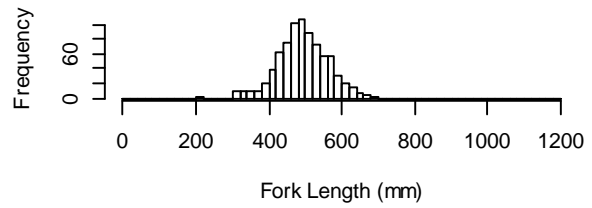
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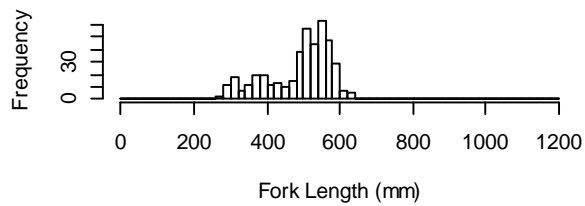
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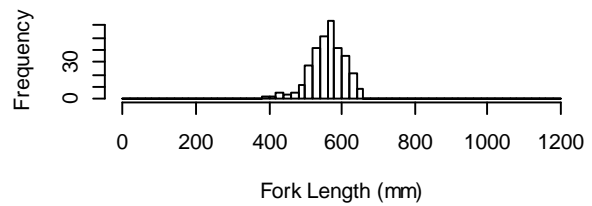
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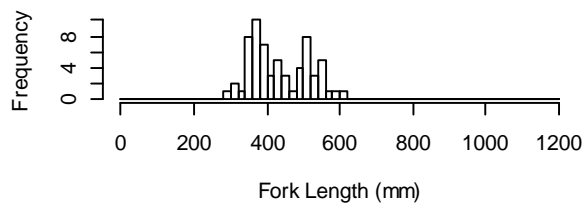
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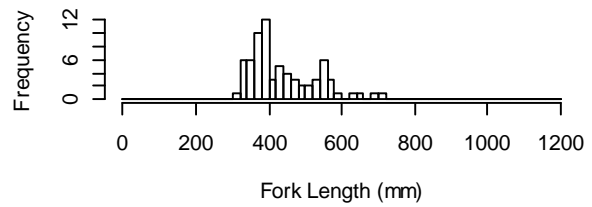
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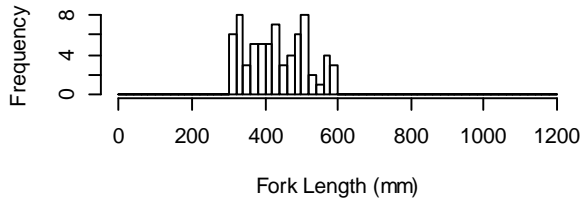
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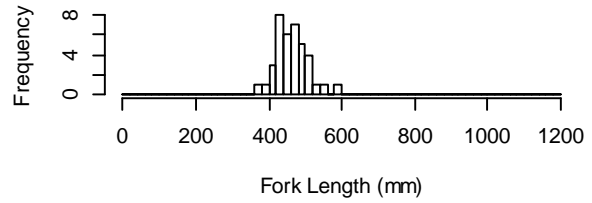
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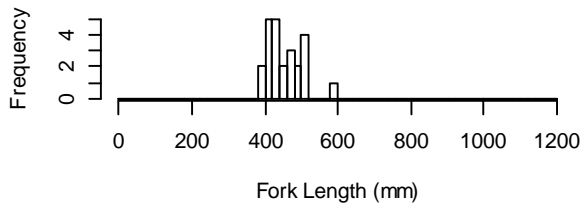
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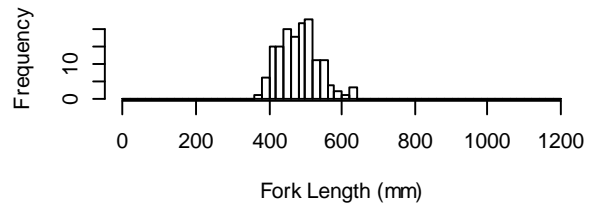
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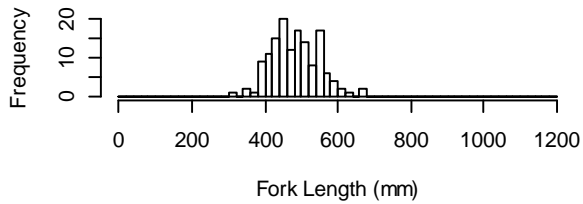
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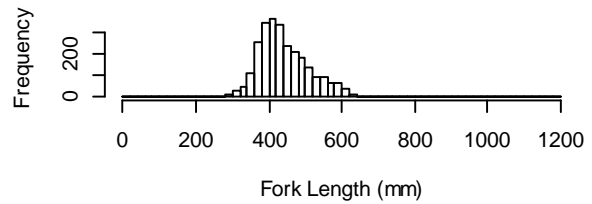
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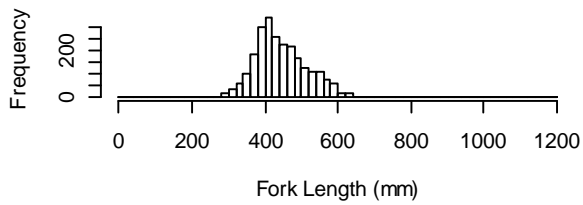
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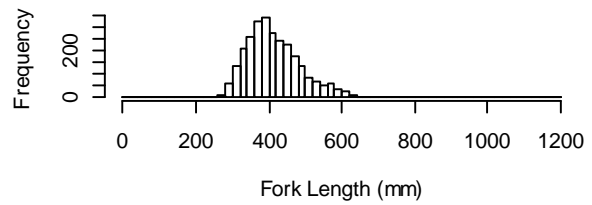
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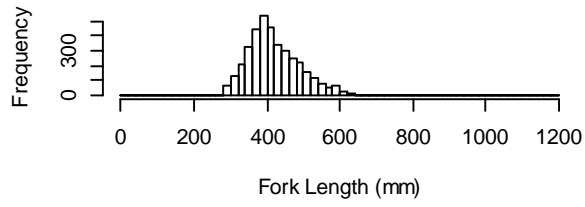
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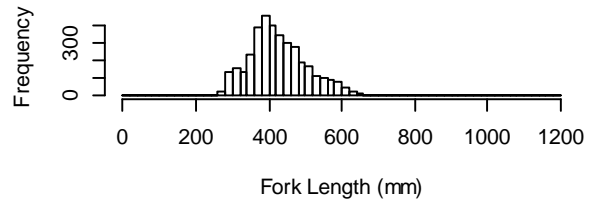
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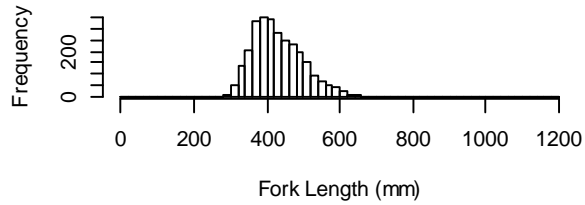
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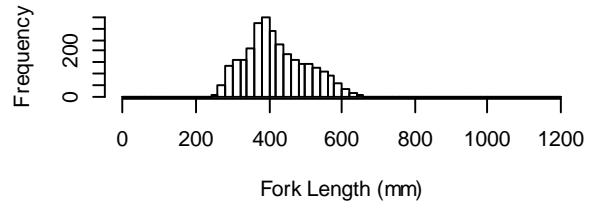
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Spanish Mackerel TIP 2009



Spanish Mackerel TIP 2010



Spanish Mackerel TIP 2011

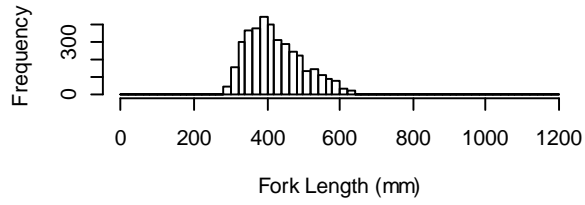
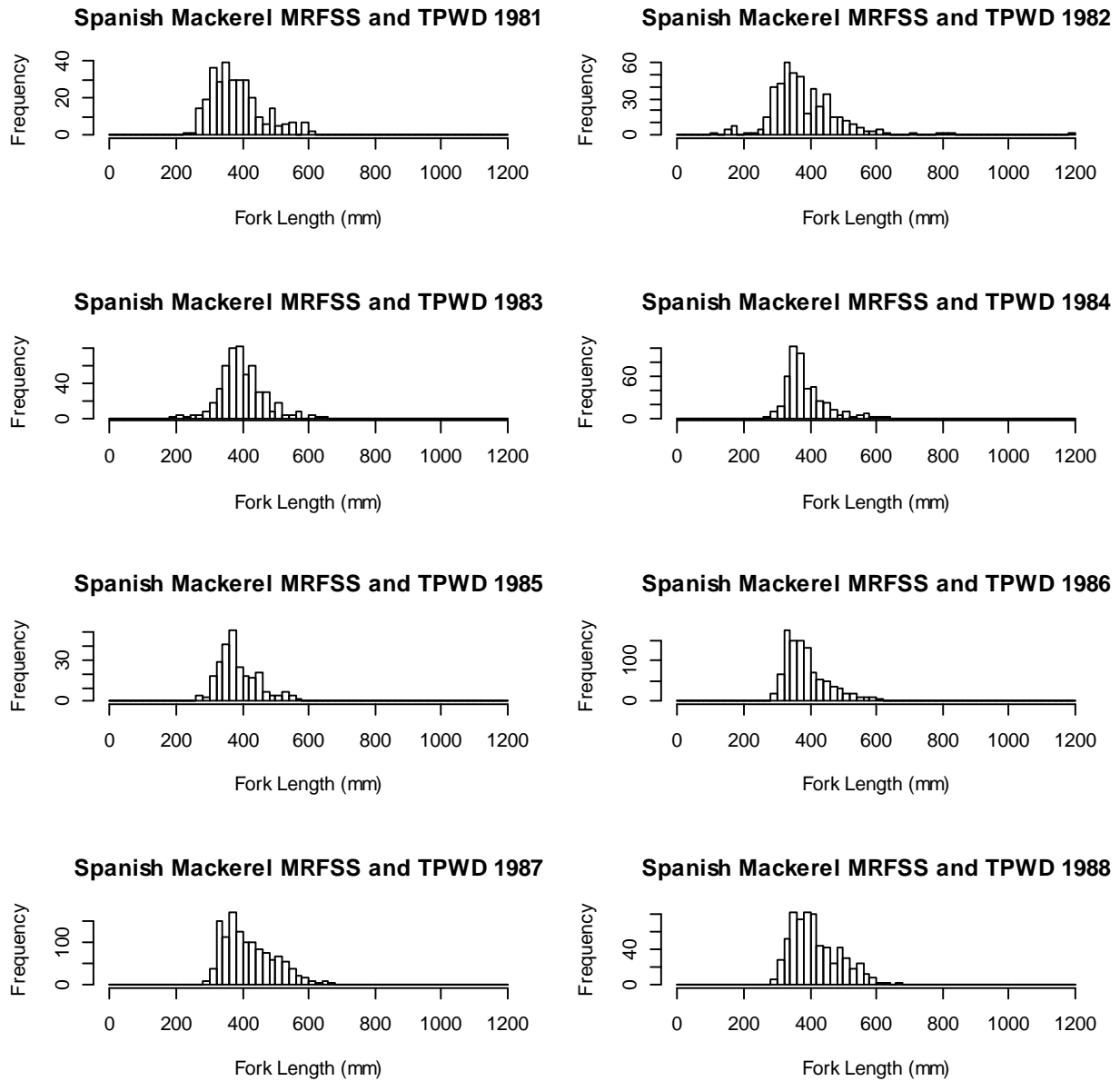
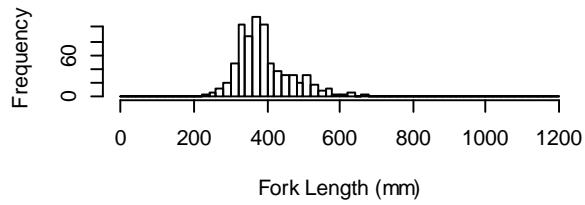


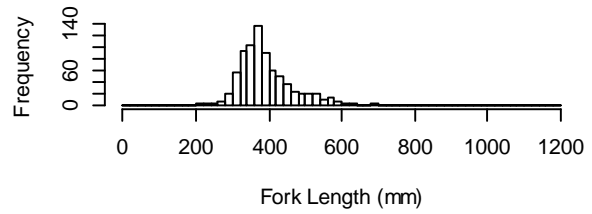
Figure 2.--Length frequency distribution of Spanish mackerel measured from MRFSS survey samples, 1983-2011.



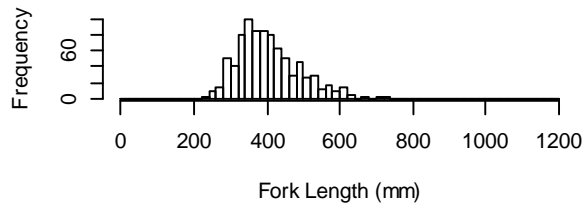
Spanish Mackerel MRFSS and TPWD 1989



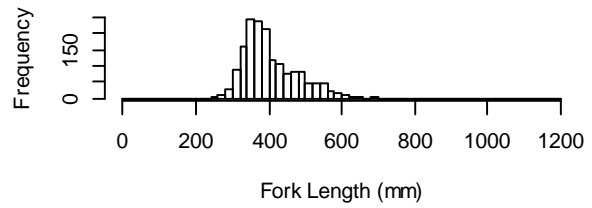
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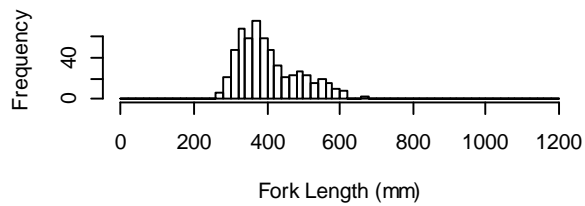
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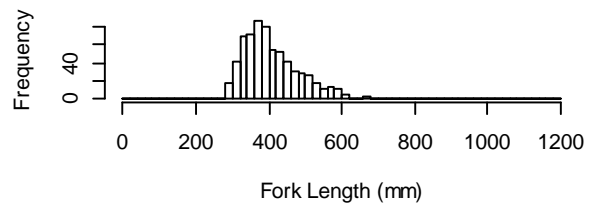
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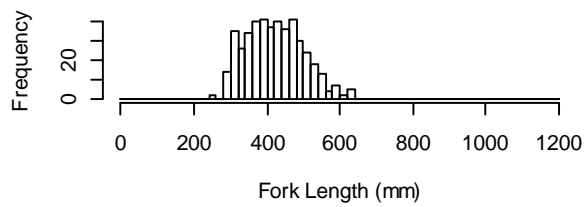
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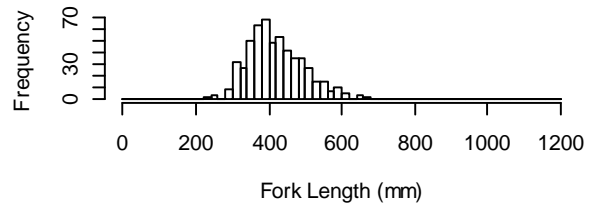
Spanish Mackerel MRFSS and TPWD 1994



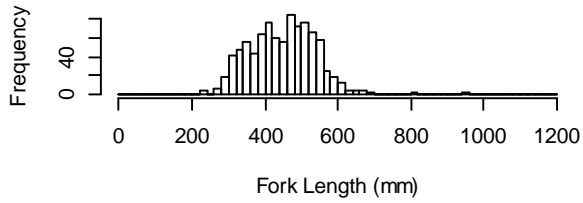
Spanish Mackerel MRFSS and TPWD 1995



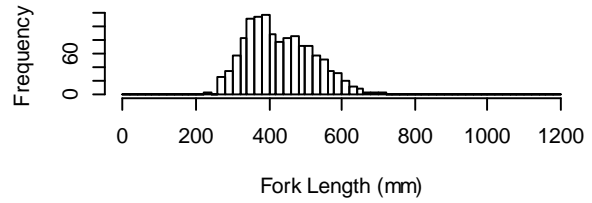
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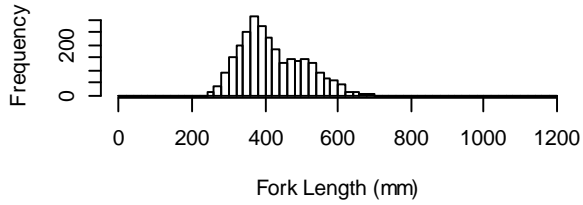
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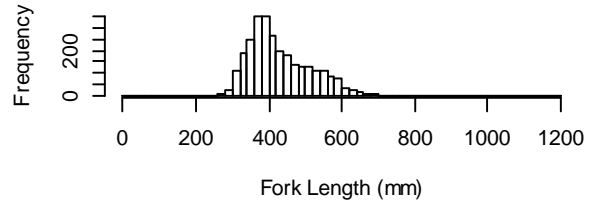
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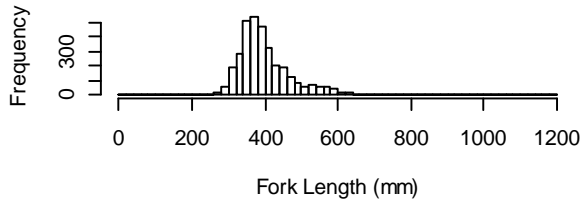
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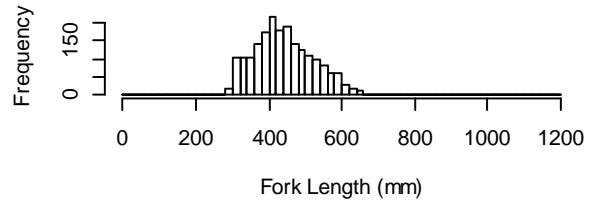
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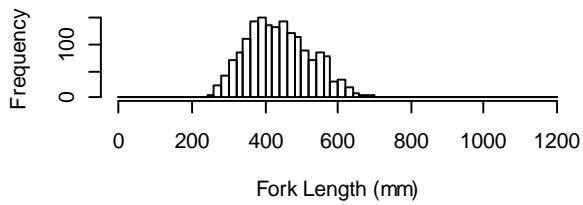
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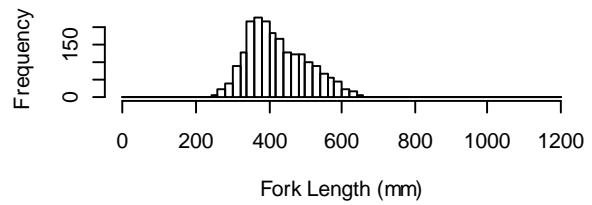
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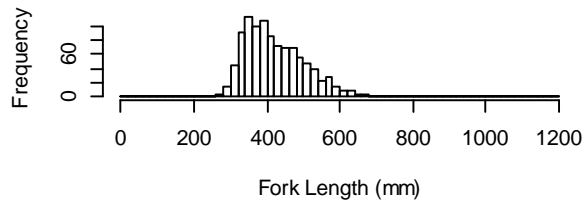
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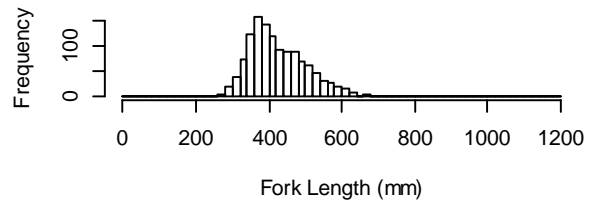
Spanish Mackerel MRFSS and TPWD 2004



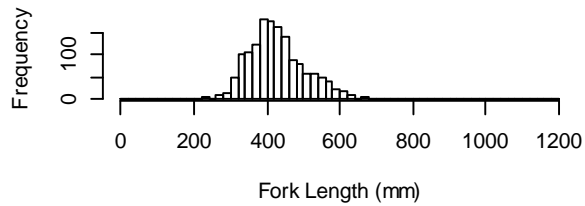
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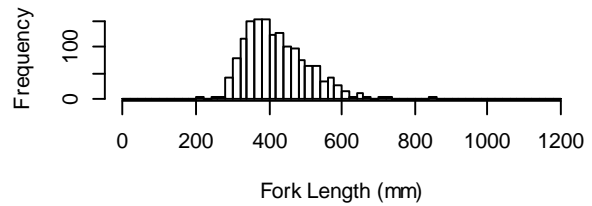
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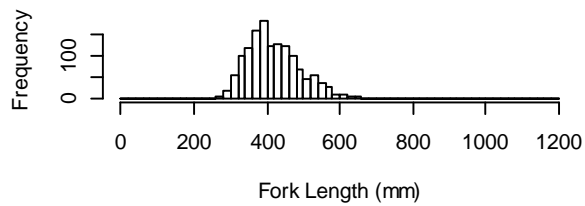
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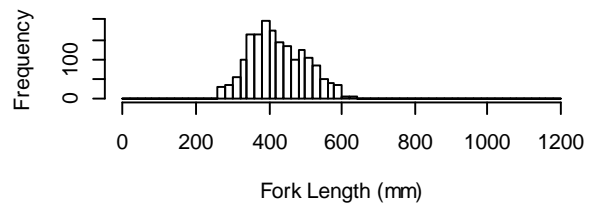
Spanish Mackerel MRFSS and TPWD 2008



Spanish Mackerel MRFSS and TPWD 2009



Spanish Mackerel MRFSS and TPWD 2010



Spanish Mackerel MRFSS and TPWD 2011

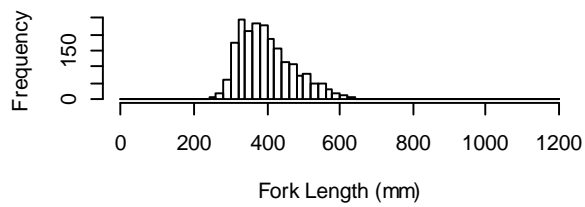
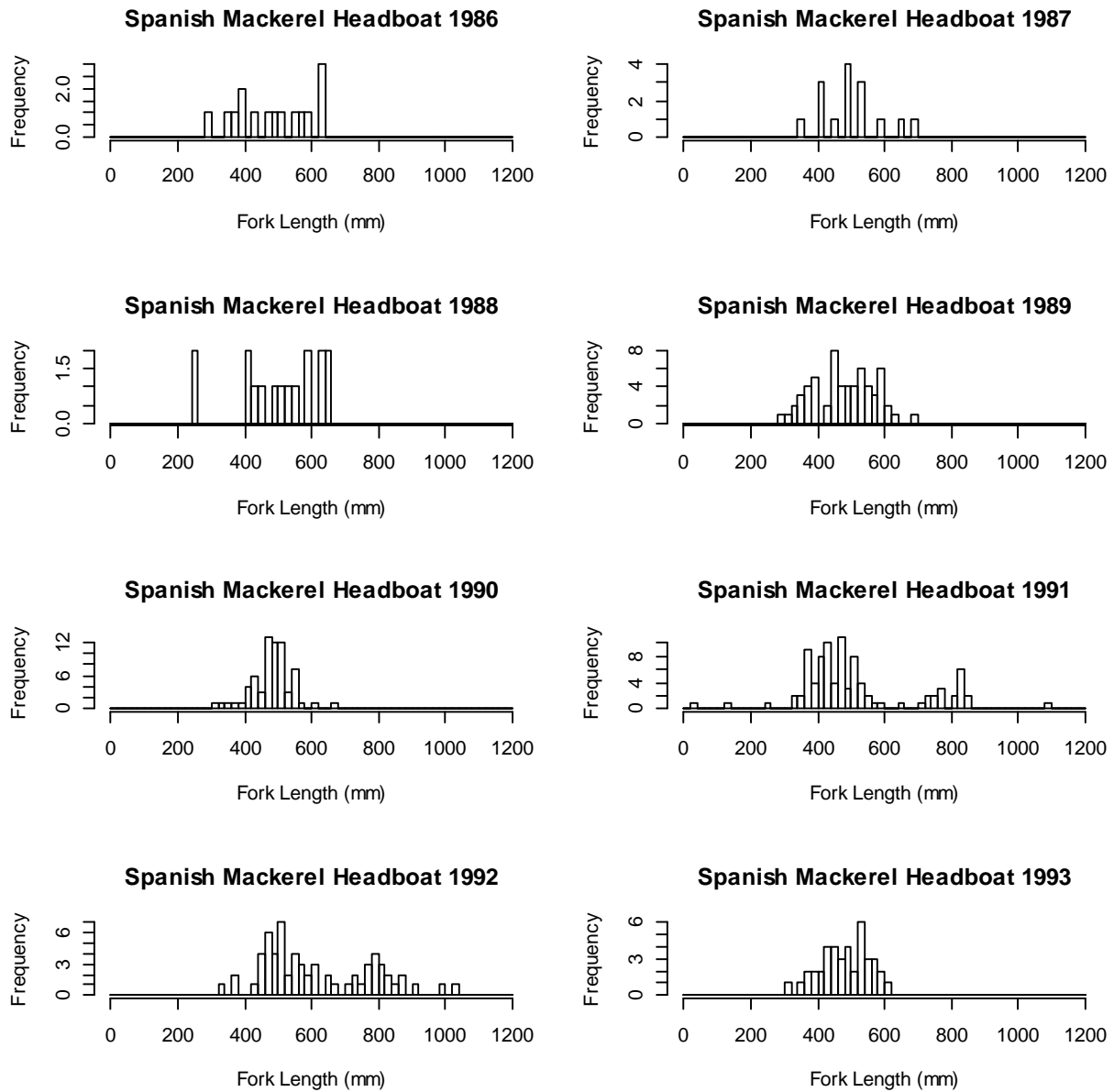
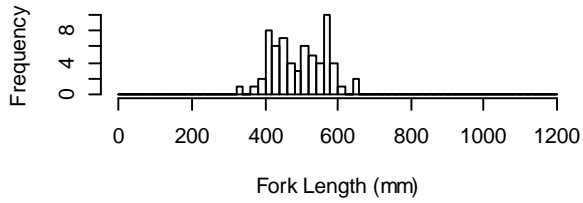


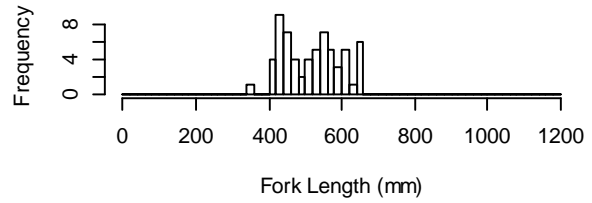
Figure 3.--Length frequency distribution of Spanish mackerel measured from headboat survey samples, 1983-2011.



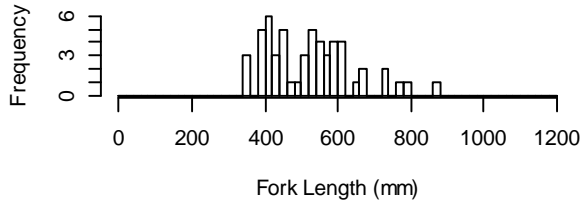
Spanish Mackerel Headboat 1994



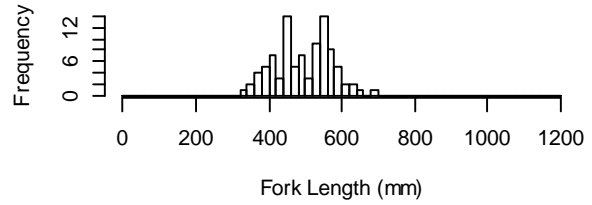
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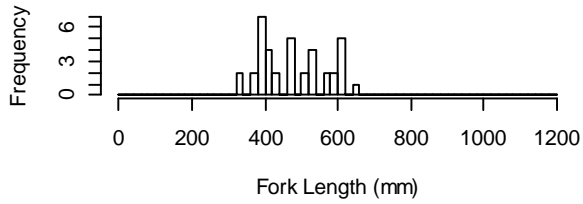
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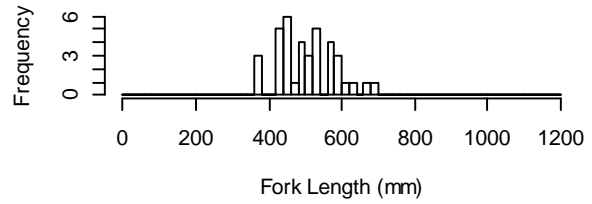
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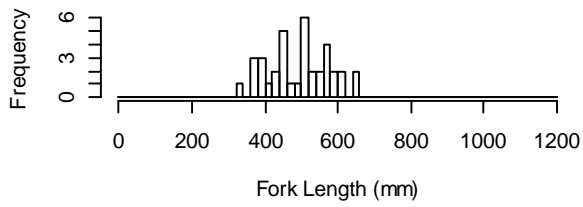
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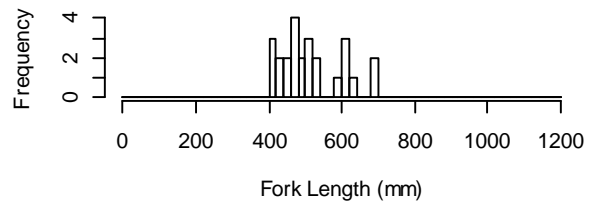
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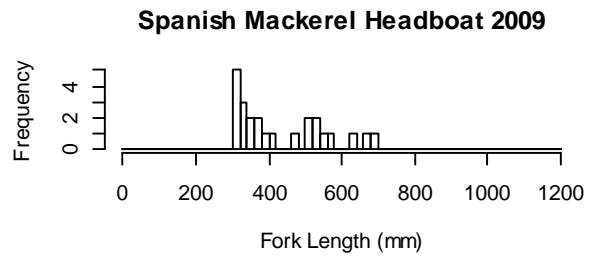
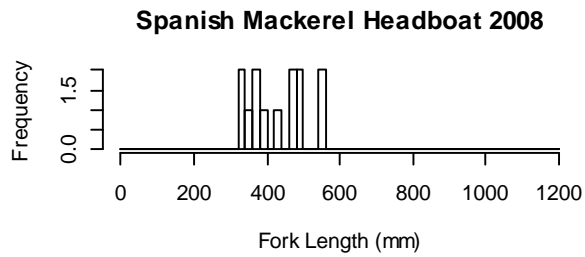
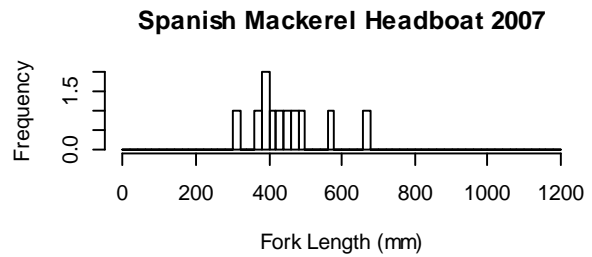
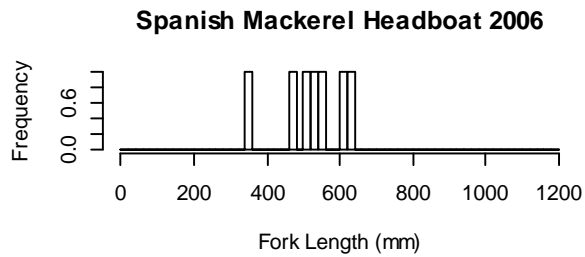
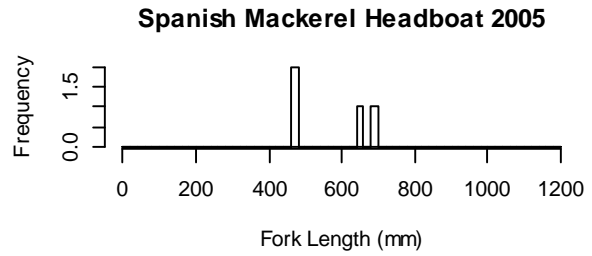
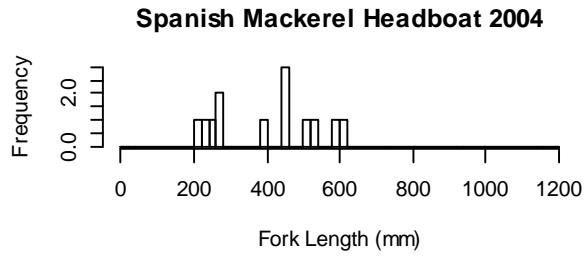
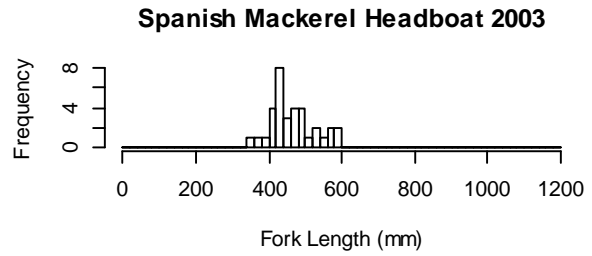
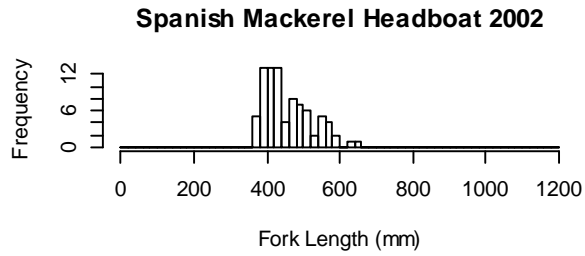


Spanish Mackerel Headboat 2000

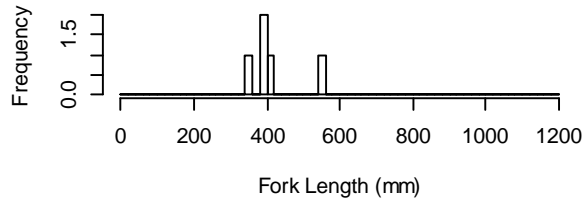


Spanish Mackerel Headboat 2001





Spanish Mackerel Headboat 2010



Spanish Mackerel Headboat 2011

