

**Table 1.** Variables that could potentially be required by the Gulf of Mexico For-Hire Electronic Reporting System, with likely timing for reporting (i.e., at Hail-out, Hail-in, or Auto-populated by electronic reporting system), and information on whether the variable is currently collected by the Marine Recreational Information Program (MRIP) dockside intercept or phone survey, the Highly Migratory Species (HMS) Charter electronic reporting system, the Southeast Region Headboat Survey (SRHS), the Gulf Headboat Collaborative Program (HBC), the Southeast Fisheries Science Center's Commercial Fisheries Logbook Program (CFLP), or the Gulf Red Snapper or Grouper-Tilefish Individual Fishing Quota (RS/G-T IFQ) Programs. Variables in **BOLD** were recommended by the Gulf Council's For-Hire Electronic Reporting Technical Sub-Committee.

Potential For-Hire Electronic Reporting Variables		When Reported?			Currently Collected By:						Comments
Variable	Description	Hail-out	Hail-in/ Logbook	Auto-pop.	MRIP	HMS Charter	SRHS	HBC	CFLP	RS/G-T IFQ	
Permit Number	Federal for-hire permit number for the vessel			X		X		X		X	Owner could configure initial account with all Permit Numbers; NMFS can link and validate to Vessel ID, which is easier for captain to report and easier for agent to validate
Vessel Number	USCG vessel id	X		X		X	X	X	X	X	Provided by captain, could be pre-filled or selected from drop down menu to save time.
Vessel Length	Length of vessel in feet			X			X	X	X	X	Owner could configure account with information for all vessels, NMFS can link and validate.
Trip Type	Commercial/Headboat/Charter/Private /Other (incl. research trips)	X			X	X	X	X	X	X	Helps law enforcement identify trip and associated regulations that apply
Trip Identifier	Unique identifier for current trip assigned at Hail-Out; cannot obtain new trip identifier until current trip's final logbook is received.			X	X		X	X	X	X	Critical to maintain data integrity and to ensure trip reports are completed in timely manner.
Landing Location	Location for vessel landing, transmitted to law enforcement	X			X	X	X	X		X	Critical for dockside validation; will need call service for weekends
Landing Date	Date for vessel landing, transmitted to law enforcement	X			X	X	X	X	X	X	Critical for dockside validation; will need call service for weekends
Landing Time	Time for vessel landing, transmitted to law enforcement	Estimated	Actual		X	X		X		X	Estimate provided at Hail-out, Actual potentially collected 30 min in advance of landing (1 hr: HBS Collaborative, 3 hr: Commercial - 1 hr window)
Trip Duration	Duration of Trip (in hours)			X		X	X	X	X	X	Easily computed from Hail-Out and Hail-In, but less useful than Hours Fished for CPUE computations
Hours Fished	Hours spent fishing (avg. per angler)		X		X				X	X	Effort metric for CPUE computations used for stock assessment indices of abundance
Target Species	Species targeted on trip	X			X	Sub-sample		X		X	Critical metric for CPUE computations, as not all trips targeting a species land the species, but the effort is still effort directed towards the species.
Anglers	Number of anglers fishing on the vessel (distinct from number of passengers and crew)		X		X	Sub-sample	X	X	X	X	Critical metric for CPUE computations (anglers X fishing hours = angler-hours)
Species	Species caught on trip		X		X	X	X	X	X	X	Critical for ACL monitoring
Retained Catch	Number of each species caught on trip		X		X	X	X	X	X	X	Critical for ACL monitoring
Released Catch	Number of each species released on trip		X		X	X	X	X	Sub-sample	Sub-sample	Critical for stock assessment
Area	Area fished at set intervals from real-time or archived GPS track			X	State vs. EEZ	Sub-Region	1 mile subgrid	1 mile subgrid	10 mile subgrid	Hourly VMS	Important for evaluation of barotrauma, assignment of fishing to jurisdiction, evaluation of spatial management, understanding impacts of climate change on stock distribution, safety at sea
Depth	Mean depth fished in feet (possibly by species?)			X					X	X	Critical to evaluation of barotrauma and associated release mortality
Pay Type	Per person, per group, or no charge (mixed pay types defaults to per person)		X				X	X			Useful to assess economics of the for-hire sector; and delineation of for-hire sub-sectors
Charter Fee	Total for-hire fees collected from all passengers for this trip		Sub-sample						Sub-sample (revenue)	Sub-sample (revenue)	Critical for ANY economic analysis/assessment
Fuel Quantity	Estimated gallons of fuel used on trip		Sub-sample				X		Sub-sample	Sub-sample	Useful to assess economics of the for-hire sector
Fuel Price	Price per gallon paid for fuel used on trip		Sub-sample				X		Sub-sample	Sub-sample	Useful to assess economics of the for-hire sector
Crew Pay	Total compensation received by hired crew for this trip (incl. tip)		Sub-sample						Sub-sample	Sub-sample	Useful to assess economics of the for-hire sector
Gear	Gear used to catch each species		X		X	X			X	X	Critical for accurate CPUE computations; gear impacts selectivity
Hook Manufacturer	Manufacturer of hooks used to catch each species (if hook gear reported)		X			X					Useful for CPUE computations; hook size impacts selectivity - hook sizes vary by manufacturer
Hook Number	Number of hooks used		X			Sub-sample			X	X	Useful to convert angler-hours to hook-hours for CPUE computations
Hook Size	Size of hook used		X								Useful for CPUE computations; hook size impacts selectivity - hook sizes vary by manufacturer
Passengers	Number of paying passengers	X				Sub-sample	X	X			Used to compute total trip fee (website posted headboat cost/person X passengers)

Purple highlighting denotes data that are not currently collected by the Southeast Region Headboat Survey but may be desired from the For-Hire Electronic Reporting System

Yellow highlighting denotes data that would be needed for independent dockside validation

HMS subsampling collected in the HMS For-Hire Cost Earnings Logbook Study (see [http://www.nmfs.noaa.gov/sfa/publications/technical-memos/nmfs\\_osf\\_tm4.pdf](http://www.nmfs.noaa.gov/sfa/publications/technical-memos/nmfs_osf_tm4.pdf))

**Table 2.** Variables that could potentially be required by the Gulf of Mexico For-Hire Electronic Reporting System that would be reported or assigned on Hail-Out or Hail-In, including information on whether the variable is currently collected by the Marine Recreational Information Program (MRIP) dockside intercept or phone survey, the Highly Migratory Species (HMS) Charter electronic reporting system, the Southeast Region Headboat Survey (SRHS), the Gulf Headboat Collaborative Program (HBC), the Southeast Fisheries Science Center's Commercial Fisheries Logbook Program (CFLP), or the Gulf Red Snapper or Grouper-Tilefish Individual Fishing Quota (RS/G-T IFQ) Programs. All variables recommended by the Gulf Council's For-Hire Electronic Reporting Technical Data Sub-Committee. All of these variables could be validated by a port agent.

Potential For-Hire Electronic Reporting Variables		When Reported?			Currently Collected By:						Comments
Variable	Description	Hail-out	Hail-in	Auto-pop.	MRIP	HMS Charter	SRHS	HBC	CFLP	RS/G-T IFQ	
<b>Vessel Number</b>	USCG vessel id	X		X		X	X	X	X	X	<i>Provided by captain, could be prefilled or selected from drop down menu to save time.</i>
<b>Trip Type</b>	Commercial/Headboat/Charter/Private/Other (incl. research trips)	X			X	X	X	X	X	X	<i>Helps law enforcement identify trip and associated regulations that apply</i>
<b>Trip Identifier</b>	Unique identifier for current trip assigned at Hail-Out; cannot obtain new trip identifier until current trip's final logbook is received.			X	X		X	X	X	X	<i>Critical to maintain data integrity and to ensure trip reports are completed in timely manner.</i>
<b>Landing Location</b>	Location for vessel landing, transmitted to law enforcement	X			X	X	X	X		X	<i>Critical for dockside validation; will need call service for weekends</i>
<b>Landing Date</b>	Date for vessel landing, transmitted to law enforcement	X			X	X	X	X	X	X	<i>Critical for dockside validation; will need call service for weekends</i>
<b>Landing Time</b>	Time for vessel landing, transmitted to law enforcement	Estimate	Actual		X	X		X		X	<i>Estimate provided at Hail-out, Actual potentially collected 30 min in advance of landing (1 hr: HBS Collaborative, 3 hr: Commercial - 1 hr window)</i>
<b>Anglers</b>	Number of anglers fishing on the vessel (distinct from number of passengers and crew)		X		X	Sub-sample	X	X	X	X	<i>Critical metric for CPUE computations (anglers X fishing hours = angler-hours)</i>
<b>Target Species</b>	Species targeted on trip	X			X	Sub-sample		X		X	<i>Critical metric for CPUE computations, as not all trips targeting a species land the species, but the effort is still effort directed towards the species.</i>
<b>Species</b>	Species caught on trip		X		X	X	X	X	X	X	<i>Critical for ACL monitoring</i>
<b>Retained Catch</b>	Number of each species caught on trip		X		X	X	X	X	X	X	<i>Critical for ACL monitoring</i>

HMS subsampling collected in the HMS For-Hire Cost Earnings Logbook Study (see [http://www.nmfs.noaa.gov/sfa/publications/technical-memos/nmfs\\_osf\\_tm4.pdf](http://www.nmfs.noaa.gov/sfa/publications/technical-memos/nmfs_osf_tm4.pdf))

**Table 3.** Variables recommended by the Gulf Council's For-Hire Electronic Reporting Technical Sub-Committee that could potentially be required by the Gulf of Mexico For-Hire Electronic Reporting System's final logbook in addition to variables collected during Hail-Out and Hail-In (see Table 2). Table also indicates whether the variable is currently collected by the Marine Recreational Information Program (MRIP) dockside intercept or phone survey, the Highly Migratory Species (HMS) Charter electronic reporting system, the Southeast Region Headboat Survey (SRHS), the Gulf Headboat Collaborative Program (HBC), the Southeast Fisheries Science Center's Commercial Fisheries Logbook Program (CFLP), or the Gulf Red Snapper or Grouper-Tilefish Individual Fishing Quota (RS/G-T IFQ) Programs.

Potential For-Hire Electronic Reporting Variables		How Completed?		Currently Collected By:						Comments
Variable	Description	Operator	Auto-pop.	MRIP	HMS Charter	SRHS	HBC	CFLP	RS/G-T IFQ	
<b>Permit Number</b>	Federal for-hire permit number for the vessel		X		X		X		X	<i>Owner could configure initial account with all Permit Numbers; NMFS can links and validate to Vessel ID, which is easier for captain to report and easier for agent to validate</i>
<b>Vessel Length</b>	Length of vessel in feet		X			X	X	X	X	<i>Owner could configure account with information for all vessels, NMFS can link and validate.</i>
<b>Trip Duration</b>	Duration of Trip (in hours)		X		X	X	X	X	X	<i>Easily computed from Hail-Out and Hail-In, but less useful than Hours Fished for CPUE computations</i>
<b>Hours Fished</b>	Hours spent fishing (avg. per angler)	X		X				X	X	<i>Effort metric for CPUE computations used for stock assessment indices of abundance</i>
<b>Released Catch</b>	Number of each species released on trip	X		X	X	X	X	Sub-sample	Sub-sample	<i>Critical for stock assessment</i>
<b>Area</b>	Area fished at set intervals from real-time or archived GPS track		X	State vs. EEZ	Sub-Region	1 mile subgrid	1 mile subgrid	10 mile subgrid	Hourly VMS	<i>Important for evaluation of barotrauma, assignment of fishing to jurisdiction, evaluation of spatial management, understanding impacts of climate change on stock distribution, safety at sea</i>
<b>Depth</b>	Mean depth fished in feet (possibly by species?)		X					X	X	<i>Critical to evaluation of barotrauma and associated release mortality</i>
<b>Pay Type</b>	Per person, per group, or no charge (mixed pay types defaults to per person)	X				X	X			<i>Useful to assess economics of the for-hire sector; and delineation of for-hire sub-sectors</i>
<b>Charter Fee</b>	Total for-hire fees collected from all passengers for this trip	Sub-sample						Sub-sample (revenue)	Sub-sample (revenue)	<i>Critical for ANY economic analysis/assessment</i>
<b>Fuel Quantity</b>	Estimated gallons of fuel used on trip	Sub-sample				X		Sub-sample	Sub-sample	<i>Useful to assess economics of the for-hire sector</i>
<b>Fuel Price</b>	Price per gallon paid for fuel used on trip	Sub-sample				X		Sub-sample	Sub-sample	<i>Useful to assess economics of the for-hire sector</i>
<b>Crew Pay</b>	Total compensation received by hired crew for this trip (incl. tip)	Sub-sample						Sub-sample	Sub-sample	<i>Useful to assess economics of the for-hire sector</i>

HMS subsampling collected in the HMS For-Hire Cost Earnings Logbook Study (see [http://www.nmfs.noaa.gov/sfa/publications/technical-memos/nmfs\\_osf\\_tm4.pdf](http://www.nmfs.noaa.gov/sfa/publications/technical-memos/nmfs_osf_tm4.pdf))

**Table 4.** Other potential variables that could potentially be required by the Gulf of Mexico For-Hire Electronic Reporting System's final logbook in addition to variables shown in Tables 2 and 3. Table also indicates whether the variable is currently collected by the Marine Recreational Information Program (MRIP) dockside intercept or phone survey, the Highly Migratory Species (HMS) Charter electronic reporting system, the Southeast Region Headboat Survey (SRHS), the Gulf Headboat Collaborative Program (HBC), the Southeast Fisheries Science Center's Commercial Fisheries Logbook Program (CFLP), or the Gulf Red Snapper or Grouper-Tilefish Individual Fishing Quota (RS/G-T IFQ) Programs.

Potential For-Hire Electronic Reporting Variables		How Completed?		Currently Collected By:						Comments
Variable	Description	Operator	Auto-pop.	MRIP	HMS Charter	SRHS	HBC	CFLP	RS/G-T IFQ	
Gear	Gear used to catch each species	X		X	X			X	X	<i>Critical for accurate CPUE computations; gear impacts selectivity</i>
Hook Manufacturer	Manufacturer of hooks used to catch each species (if hook gear reported)	X			X					<i>Useful for CPUE computations; hook size impacts selectivity - hook sizes vary by manufacturer</i>
Hook Number	Number of hooks used	X			Sub-sample			X	X	<i>Useful to convert angler-hours to hook-hours for CPUE computations</i>
Hook Size	Size of hook used	X								<i>Useful for CPUE computations; hook size impacts selectivity - hook sizes vary by manufacturer</i>
Passengers	Number of paying passengers	X			Sub-sample	X	X			<i>Used to compute total trip fee (website posted headboat cost/person X passengers)</i>

HMS subsampling collected in the HMS For-Hire Cost Earnings Logbook Study (see [http://www.nmfs.noaa.gov/sfa/publications/technical-memos/nmfs\\_osf\\_tm4.pdf](http://www.nmfs.noaa.gov/sfa/publications/technical-memos/nmfs_osf_tm4.pdf))