

Training Workshop on Port Data Collection for Artisanal Fisheries in Suriname



Paramaribo, 19 – 21 October 2022



Preparation of this document

This report documents the delivery of a training workshop on port data collection for artisanal fisheries in Suriname. The workshop was delivered as part of the implementation of the 5-year action plan of the Fishery Improvement Program (FIP) on Corvina *Cynoscion virescens* and Acoupa weakfish *C. acoupa* driftnet and trawl fisheries in Suriname. The FIP is executed in close collaboration with the government of Suriname, and this training was primarily aimed at the fisheries data collectors employed by the Fisheries Department (FD) of the Ministry of Agriculture, Animal Husbandry and Fisheries (MAAHF-LVV). Technical staff of CeDePesca in Suriname (Mr. Tomas Willems and Ms. Alisha Pengel) delivered the training and prepared the current report.

Cover photograph ©T. Willems

Background

The methods for sample-based data collection in the artisanal fishery in Suriname were recently reviewed and updated with assistance from fisheries experts in FAO. The main aim of the revised methodology is to collect more accurate and detailed information of catch and effort in the artisanal fleet that can be used for (1) research and stock assessment purposes and (2) production of fisheries statistics to keep up with (inter)national reporting standards. Apart from landing and effort data, the protocol now includes the collection of socio-economic information. Data collection (sampling) also has to occur more strategically than before in order to calculate the yearly statistics for the artisanal fishery.

New data collection forms were designed for use in the field along with a new way of digitizing them (webform). In order to introduce the new protocol for artisanal fisheries data collection and train the data collectors of the FD in its use, a 3-day workshop was organized by the FIP team in collaboration with the FD.

The workshop took place from the 19th to the 21st of October 2022 and was attended by 88% (21 out of 24) of the data collectors of the FD.

Daily report

Day 1

The first day of the workshop focused on the importance of fisheries data collection, the calculation of fishery statistics, work method for data collection and the use of the new data collection forms.

Presentations/ activities included:

- The importance of fisheries data collection.
- The different types of fisheries data.
- The history of fisheries in Suriname and the different fishing gears and zones.
- How fishery statistics are calculated for the industrial fishery and for the artisanal fishery.
- Work method for data collection.
- Practice filling in the new data collection forms based on fictional landing examples.



Day 2

The second day of the workshop focused on the use of the new data collection forms and the webforms to digitize them, the legal rights and duties of data collectors of the FD, background on the issuing of fishing licenses and what to do when the field situation differs from the theoretical ideal.

Presentations/ activities included:

- Practice filling in the new data collection forms based on fictional landing examples.
- Accessing the webforms with a username and password.
- Background on how fishing licenses are issued and how to discern between a real and a false license (by staff of the licensing department).
- The legal rights and duties of a data collector of the FD.
- Working group and collective discussions about several known field situations and how to handle them (based on the data collection protocol).

Day 3

The third day of the workshop focused on fish identification, a recap of the work method for data collection and a recap of the past two days in the form of a live quiz.

Presentations/ activities included:

- Working group and collective discussions about the characteristics and names of about 40 species of fish
 commonly caught in the Surinamese artisanal fishery (several specimens of each species where available
 to look at, touch and identify using the new protocol).
- Work method for data collection.
- Live quiz.

Conclusion

The training workshop was well-attended and was well-received by the data collectors of the FD. During the workshop the FIP team received valuable feedback from the data collectors, which will be used to extend and improve the data collection forms and further refine the methodology. The new sample-based methodology will be piloted in November-December 2022 and will be fully implemented in January 2023.



ANNEXES

Annex A. New forms for sample-based data collection in coastal and inland fisheries

Annex B. Cheat-sheet to be used in conjunction with the forms

Annex C. Screenshots from web-based application for data entry

Annex D. Some pictures of the training



A. New forms for sample-based data collection in coastal and inland fisheries

VOLGNUMMER			NAAM OI	PNEMER			DATUM O	PNAME (I	DD/MI	(וווו/M
NAAM VAARTUIG			REGISTRA	ATIE NR. V			VERGUNN SK-NJA SK-LIJN SK-DRIJ	WARIE	□ SK-	DRIJF-OG DRIJF-COR B
VERTREK PLAATS	_				AANLANDIN	IGSPLAA	ATS .			
VISSERIJ ZONE										
VERTREKDATUM	A	ANLAND	DINGSDATU	JM	VISSERIJ IN	SPANNII Ure	en	RIP NR.		lledige trip oken trip
dagen op	zee in de af	gelopen	30 dagen.							
AANTAL VISSERS		□ SRD □ USD	BRANDST Verbruikt ————————————————————————————————————	☐ Liter ☐ Gallo	□ Diese n □ Unlea		IJS Gekocht ———Eenheidsprij	□ Teil □ m³		
OPMERKINGEN				□ SRD □ USD	/ □ Lite			□ SRD □ USD	/	□ Teil □ m³

Data collection form for coastal fisheries page 1 out of 2. This page allows for the recording of information about the recording itself, vessel information, fishing zone, effort, socio-economic information and notes.



AANVOER FORMULIER KUSTVISSERIJ (SK/SKB) AANGELANDE VANGST Verwerking Gewicht Eenheidsprijs Verwerking Gewicht Eenheidsprijs ☐ SRD ☐ SRD □ kg □ kg □ kg □ kg ☐ lbs □ USD □ Ibs ☐ lbs □ USD ☐ Ibs AANGELANDE VISBLAAS Verwerking Gewicht Gewicht Eenheidsprijs Verwerking Eenheidsprijs □ kg □ kg □ SRD □ kg □ SRD □ kg ☐ Ibs □ USD ☐ Ibs ☐ lbs □ USD ☐ Ibs ☐ Nat □ Nat ☐ Droog ☐ Droog ☐ Nat □ Nat □ Droog □ Droog ☐ Nat ☐ Nat □ Droog □ Droog MINISTERIE VAN LANDBOUW, VEETEELT EN VISSERIJ Cornelis Jongbawstraat 50, Paramaribo, Suriname +597 476-741 toestelnrs: 42 & 47

Data collection form for coastal fisheries page 2 out of 2. This page allows for the recording of the fish landing (species, processing, weight). The landing of fish bladder is recorded separately.

😘 visserijstatistiek@gmail.com

DIRECTORAAT VISSERIJ

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AANVOER FORMULIER BINNENWATERVISSERIJ (BV) VOLGNUMMER NAAM OPNEMER DATUM OPNAME (DD/MM/JJJJ) NAAM VAARTUIG REGISTRATIE NR. VAARTUIG **VERGUNNING TYPE** □ BV-DRIJFNET ■ BV-FUIKNET-COMMEWIJNE ☐ BV-KIEUWNET-SLEEPNET ☐ BV-FUIKNET-SARARMACCA □ BV-LIIN □ BV-FUIKNET-NICKERIE □ BV-SPANNET Fuik type □ BV-ZEEGNET 0 0 O Vis Garnalen Jagi jagi AANLANDINGSPLAATS **VERTREK PLAATS** VISSERIJ ZONE ☐ Bigi Pan ☐ Coppename & Saramacca rivier ☐ Kust: ☐ Corantijn & Nickerie rivier ☐ Marowijne rivier sectie sectie AANLANDINGSDATUM VERTREKDATUM VISSERIJ INSPANNING ☐ Uren □ Dagen **BOOT ACTIVITEIT** dagen gevist de afgelopen 5 dagen. AANTAL VISSERS VOEDSEL **BRANDSTOF** ☐ Liter □ SRD □ Teil □ Diesel □ USD ☐ Gallon □ Unleaded \square m³ **Eenheidspriis Eenheidspriis** □ SRD ☐ Liter □ SRD □ Teil □ USD □ Gallon □ USD ☐ m³ **OPMERKINGEN** MINISTERIE VAN LANDBOUW, VEETEELT EN VISSERIJ Cornelis Jongbawstraat 50, Paramaribo, Suriname +597 476-741 toestelnrs: 42 & 47 p. 1 | 2 № visserijstatistiek@gmail.com

Data collection form for inland fisheries page 1 out of 2. This page allows for the recording of information about the recording itself, vessel information, fishing zone, effort, socio-economic information and notes.

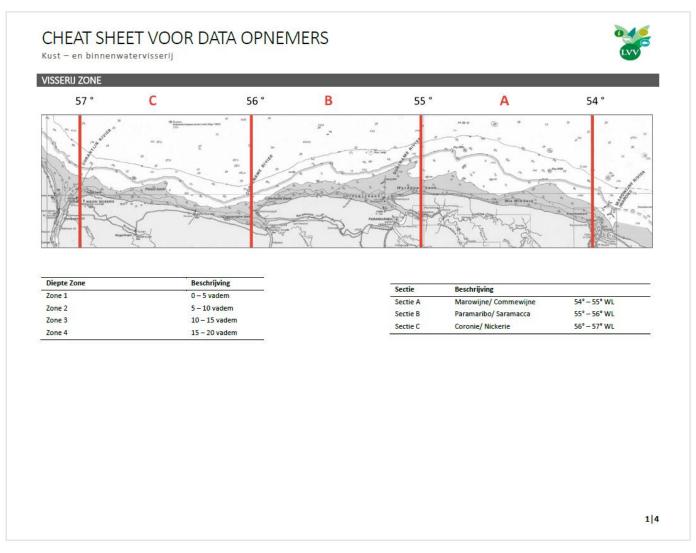


AANVOER FORMULIER BINNENWATERVISSERIJ (BV) AANGELANDE VANGST Verwerking Gewicht Eenheidsprijs ASFIS Verwerking Gewicht **Eenheidsprijs** □ kg □ SRD □ kg □ kg □ SRD □ kg □lbs □ Ibs ☐ lbs □ USD □ USD ☐ Ibs AANGELANDE VISBLAAS Verwerking Gewicht Gewicht ASFIS ASFIS Verwerking Code Code □ kg ☐ SRD □ kg □ kg ☐ SRD □ kg ☐ lbs □ Ibs □ USD □ Ibs □ USD □ Ibs □ Nat ☐ Nat ☐ Droog ☐ Droog □ Nat □ Nat ☐ Droog ☐ Droog ☐ Nat ☐ Nat ☐ Droog ☐ Droog MINISTERIE VAN LANDBOUW, VEETEELT EN VISSERIJ Cornelis Jongbawstraat 50, Paramaribo, Suriname ## +597 476-741 toestelnrs: 42 & 47 DIRECTORAAT VISSERU p. 2 | 2 😘 visserijstatistiek@gmail.com

Data collection form for inland fisheries page 2 out of 2. This page allows for the recording of the fish landing (species, processing, weight). The landing of fish bladder is recorded separately.

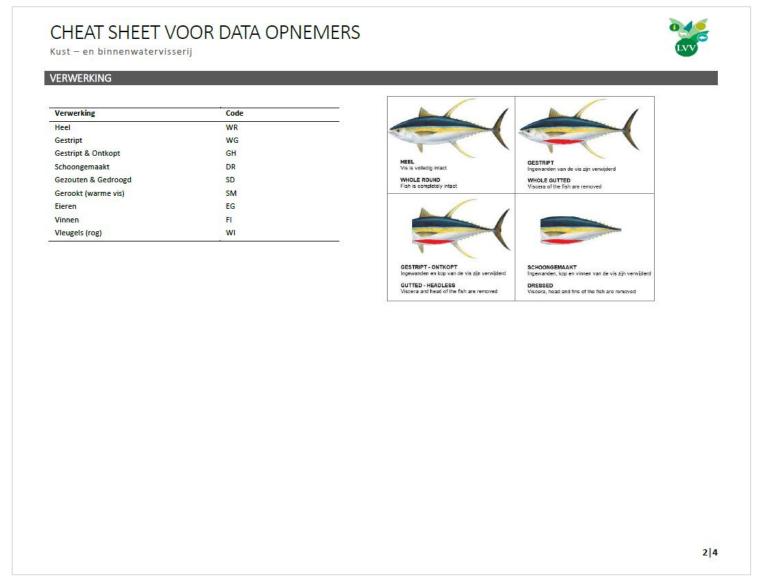


B. Cheat-sheets to be used in conjunction with the forms



Cheat sheet describing the depth zones and sections that describe the coastal fishing zones.





Cheat sheet listing and illustrating the relevant fish processing types. Each processing type is tied to a unique 2 letter code.



CHEAT SHEET VOOR DATA OPNEMERS

LOB

HWU

LHC

MOA

POX

TCN MKH LRJ

LHT ROB

HSR

HZH

Kust – en binnenwatervisserij



T (ASFIS CODE)	
Vissoort	Code
aarder; prassie; kweriman	MGS
american harvestfish: silver	WIGS
pomfret	ERP
atlantic bumper	BUA
baracuda	BAR
big eye	PQR
bigtooth corvina/ trie	ISA
blue fish	BLU
botjie	BAX
botjie mix/onbekend	FLX
caitipa mojarra	DZR
carangidae mix/onbekend	CGX
castin leather jack; jumper	OLS
cavalli; zeezalm	CVJ
cobia; batjaw; cabio	CBA
katrina-kwikwi	999
kingfish	KGM
krobia	CIX
lompoe	TFB
lookdown	LNM
makka sriba	DUT
makreel	SSM
makreel-kingfish mix/onbekend	KGX

plata-ede-kwikwi; platkop kwikwi

paoema

Sriba

pojo; moonfish

pompano mix/onbekend

silver snapper; stonkoebi silverbelt; riemvis

soke-kwikwi; hei-ede-kwikwi

pompidoe; pompano

	Vissoort	Code
	swordspine snook	EPN
	tilapia	TLM
	trapoen	TAR
	zeevis mix/onbekend	MZZ
	zoetwatervis mix/onbekend	FRF
	bang bang; grey snapper	YNA
	bigeye kandra; bright eye kandra	YNM
	blaka tere witwitie; blacktail	WKB
. 5	dagoetifi; bangamary	WKK
Weakfish	kandratiki; seatrout; trout	YNV
Ne Ne	tonkin witwitie	YNS
	weakfish mix/onbekend; HolSu	WKX
	witwitie	YNJ
	witwitie mix/onbekend	WKX
	b-liner	RPU
	dog snapper	Ш
Der.	lane snapper	SNL
Snappers	mutton snapper	LIN
ν	red snapper	SNC
	snappers mix/onbekend	SNX
10	black fly; blaka fre	KGB
Croakers	botervis; botro fisie	NBM
0 B	koebie	LGQ
0	krokus; zeekoebi; croaker	CKM
	gramorgoe; grauwmurg; jewfish	EET
Groupers	grouper mix/onbekend	BSX
	black snapper; black grunt	OTR
23	green snapper	BRG
Grunts	grunts mix/onbekend	HWX
G	milkfish; neertjie; anafolks;	
	merki fisi	GEU
οX	ansjovis mix/onbekend	ANX
Ansjovis, haring & sardien	haring mix/onbekend	SAS
en	haringachtige;sardienachtige	
vis, har sardien	mix/onbekend	CLP
Sjo	longfin herring	PNA
An	surinam anchovy	VCH
	threadfin herring	THA

	Vissoort	Code
	bruine garnaal	PNU
Garnalen	hopper	PNB
	redi bere	XHO
	roze garnaal	SOP
	sara sara;	PEN
	zeegarnalen mix/onbekend	
	seabob	BOB
	witbere	NLC
	witte garnaal	PNT
	blacknoze shark	CCN
	blacktip shark	CCL
	brazilian waterbelly shark	RHL
ë	carcharhinus haai mix/onbekend	CWZ
Haaier	caribbean waterbelly shark	RHR
	hamerhaai mix/onbekend	SPY
	tiger shark	TIG
	waterbelly shark mix/onbekend	RHZ
	american stringray	RDA
gen Sen	butterfly; butterflap	RGI
Rogger	longnoze stingray	RDU
_	spari; tengiray mix/onbekend	STT
_	krabu	UCC
rabben	srika	KLB
rab	zeekrab	KPS
-	zeekrabben mix/onbekend	CRA
nktvis	inktvis	SQZ
IIKUVIS	octopus mix/onbekend	ОСТ
	barbaman	BEB
	jarabaka; gillbacker	AWP
	kodokoe	AZS
	koema koema	CVE
Se .	koepila; curas	AXP
sladvisser	kukwari	AWY
Glac	pani	CVQ
	poes; thomas	NGZ
	twi twi	AWR
	zeegladvis mix/onbekend	CAX
	zoetwater gladvis	MXW

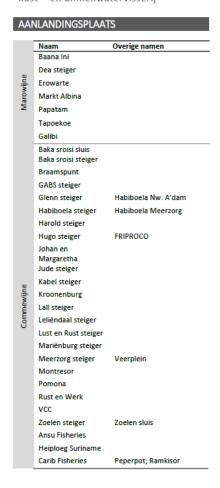
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Cheat sheet listing coastal and inland species and the corresponding ASFIS code.



CHEAT SHEET VOOR DATA OPNEMERS

Kust – en binnenwatervisserij



	Naam	Overige namen
	Azad steiger	Hazard; Azaad
	Baktawar steiger	Jhotish steiger; Ricky's steiger
	Bisoen steiger	
	Centrale markt	
	Clevia sluis	
Paramaribo	Darsan steiger	Anton Drachtenweg #202; naast Shadien; Karransteiger
ame	Doorsteek Sluis	Sluis Saramaccakanaal
Par	Gunny's park	Leonsberg
	JICA	
	Moenne steiger	Faizel Moenne
	Nene steiger	Waaldring
	Weg Naar Zee	
	CEVIHAS	
	SSC	Mister Ma
	SAIL	
	Laarwijk	
	Staatsolie	Dijkveld; Tout Lui Fautkanaal
æ	Parakreek	Houtzagerij Dwarka
Wanica	Deep Sea Atlantic	
3	HolSu	
	Marisa Fisheries	
	NISAD	
Coronie Saramacca	Boskamp Huwelijkszorg	
Coronie	Burnside kanaal Totness kanaal	

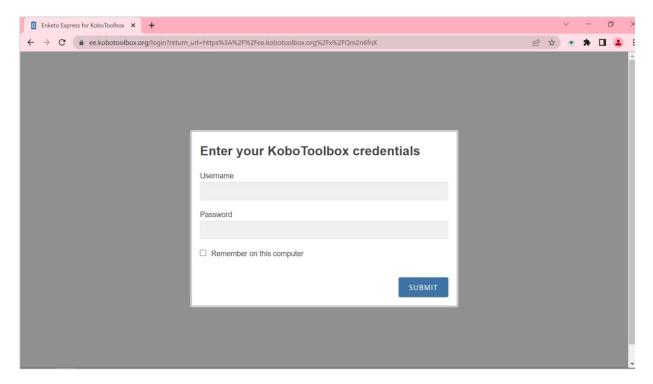
	Naam	Overige namen				
	Boonacker sluis	Boonacker polder				
	Clara sluis					
	Hakrinbank steiger					
	Hamptoncourt sluis					
	Henarpolder	Henarsluis				
	Djakarta sluis	Waldecksluis				
	Karan Anjar					
au	Markt Nieuw-Nickerie					
Nickerie	Oud abatoir	Oud slachthuis				
	Paradise	Fredericiweg				
	Raniesluis	Waterloo sluis; Fredericiweg				
	Rawan steiger	Ramdien				
	Ronald steiger	Ro steiger				
	Roy steiger	Stichting South American; Ameerali				
	Solom-Longmay	•				
	Zeedijk					
	Orbilo	VCN				

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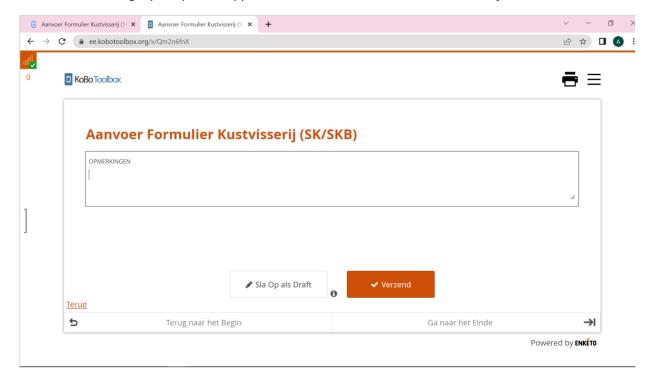
Cheat sheet listing the names of all the official landing sites in Suriname.



C. Screenshots from web-based application for data entry

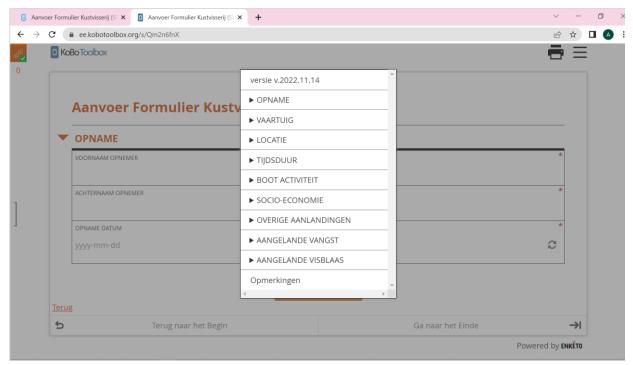


Login prompt that appears when a user wants to access the webform.

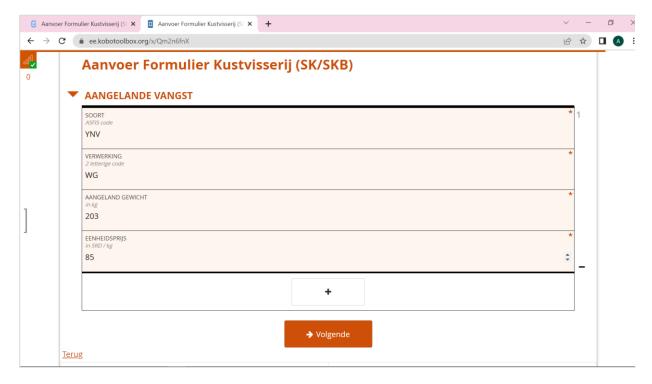


Final page of the webform with the options to save the form as a draft or submit it.





Menu showing an overview of all the sections in the webform. The menu can be used to navigate through the form.



Example of a filled in section in the webform.



D. Some pictures of the training









Top left: A group of participants identify and label fish during the fish identification exercise. **Middle left:** Mr. Tomas Willems checks if groups have identified the fish species correctly and discusses the characteristics and various names of each species.

Bottom left: Participants listen en watch attentively to one of the presentations.

Right: One of the participants holds up the new data collection forms and the cheat sheet bundle.