

**AGENCY FOR AGRICULTURAL RESEARCH AND DEVELOPMENT  
RESEARCH INSTITUTE FOR MARINE FISHERIES**

**CFSTOM**



**JAVA SEA PELAGIC FISHERY  
ASSESSMENT PROJECT  
(ALA/INS/87/17)**

**TECHNICAL INFORMATIONS  
ON  
LARGE SEINERS**

**By**

**WIJOPRIONO**

**Scientific and Technical Document No 18**

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## PRESENTATION

The study of the resources of the Java Sea pelagic fish and of the development of purse seiners in that sea is part of RIMF's\* activities since 1980. This study was extended in 1984 through bilateral cooperation with ORSTOM\*\*. The Java Sea Pelagic Fishery Assessment Project", starting in early 1991, is the continuation of these research's efforts. This project will improve the knowledges on the big and medium purse seiners fishery and on the coastal pelagic fish populations as sardinella, scads, selars and mackerels.

This document is part of a work made by the BPPL's counterpart of the naval architect expert appointed to the project. It gathers the measurements made on board some big and medium seiners in order to find the true dimensions of these vessels and to calculate the Gross tonnage.

After a brief review of the methods used by the Indonesian administration to calculate the gross tonnage, a figure with the main measurements and the list of abbreviations used in the tables, the document gives synthetic tables of all technical informations gathered on the vessels that have been measured.

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\* RIMF : Research Institute for Marine Fisheries.

\*\* ORSTOM : French Institute for Research and Development in Cooperation

## TONNAGE MEASUREMENT

### OLD METHOD

$$GT = L \times B \times D \times C \times 0.353$$

where :

L = Length which is measured on upper bulwark with horizontal range from aft of the stem up to the transom forward.

B = Horizontal range which is measured between both outside of the starboard and port on its widest part excluded guard rail.

D = Vertically range on widest part of the vessels which is measured from below side of the bottom frame up to the below side of the upper deck.

C = Factor = 0.60

### NEW METHOD

Since 1990, tonnage, measurement of the big purse seine vessels in the Java Sea is based on the Director General of sea Transport Decree N° PY 67/1/13-90, in accordance with the International System.

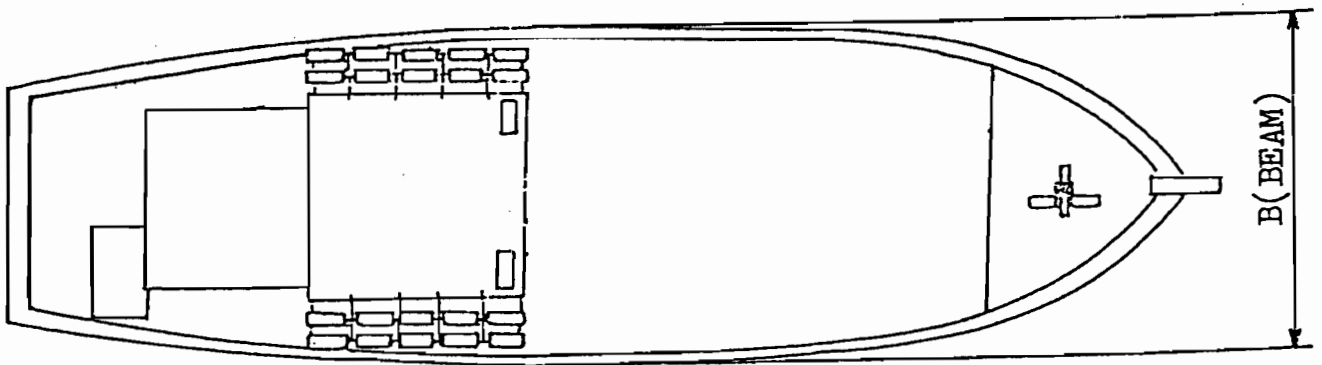
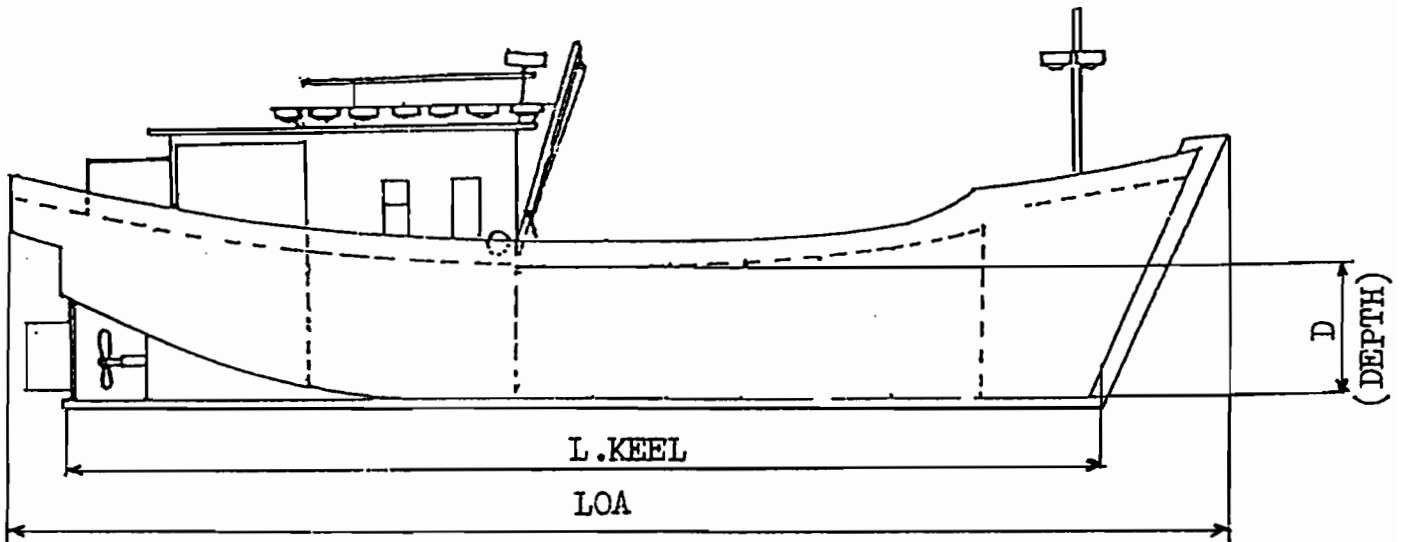
Gross tonnage is calculated in accordance with the 3rd rule of the 1969 International Convention on Tonnage Measurement of ship. The gross tonnage formula is as follow :

$$GT = K . V$$

where : V = Total volume of the space below part of upper deck adding by completely closed spaces on the upper deck which have volume less than 1 m<sup>3</sup>

$$K = 0.25$$

$$\text{Net tonnage} = 0.60 \times GT$$



Main measurements made on board the vessels during the enquiries.

## LIST OF ABBREVIATIONS

B	: Beam/Breath
BRO	: Big round
BSA	: Bagan Siapi-api
BSQ	: Big square
Cap.	: Capacity
Cyl.	: Cylinder
D	: Depth
ENGI.	: Engine
Gen.	: Generator
GT	: Gross tonnage
HP	: Horse power
KW	: Kilowatt
L	: Registered length
L.KEEL	: Length of keel
LOA	: Length over all
N	: No
NO.	: Number
NT	: Net tonnage
O	: No data available
Pekal.	: Pekalongan
RED.	: Reduction
Y	: Yes

# BIG PURSE SEINERS

No.	VESSEL	OWNER	ADDRESS	PORT	LOA	BEAM	DEPTH	REGIST. PORT	NO	L	B	D	GT	NT	LKEEL	PLANKSIDE			VESS TYPE	PLACE BUILT	YEAR	NO HOLDS	FISH STATED CAP. (ton)	
																BOTTOM cm	SIDE	WIDTH cm						
1	WJAYA SAKTI	H.A. SARYANI	YUANA	YUANA	26.38	6.88	2.20	PEKAL	1049	19.28	5.50	1.43	32.08	22.45	0.00		9	8	23.0	B SO	BSA	1983	14	47.3
2	MINA MAKMUR	TIONG IING	PEKALONGAN	PEKAL	27.70	7.20	2.30	PEKAL	871	19.49	5.47	1.40	31.61	21.61	0.00		0	0	22-23	B SO	BSA	1983	12	64.0
3	CHARLY MEGAH UTAMA	KOKI IONG	PEKALONGAN	PEKAL	30.70	7.93	2.55	PEKAL	98	0.00	0.00	0.00	0.00	0.00	0.00		10	9	24-27	D RO	USA	1992	12	91.0
4	TEGUH JAYA	RANDI KUSUMA	SEMARANG	YUANA	26.95	7.03	1.40	PEKAL	956	19.52	5.55	1.38	31.68	22.41	0.00		10	8	22-23	B SO	BSA	1988	12	52.5
5	PRIMA ABADI	RUDIHERMAN	PEKALONGAN	PEKAL	27.10	7.40	2.00	PEKAL	21	0.00	0.00	0.00	0.00	0.00	0.00		0	0	23-25	B RO	BSA	1991	12	60.0
6	MEKAR WJAYA	TUTI SUSANTI	PEKALONGAN	PEKAL	25.50	7.00	2.05	PEKAL	791	19.48	5.58	1.38	31.27	21.55	0.00		0	0	22.0	B SO	BSA	1988	10	35.0
7	SERUNI SARI	DJASMAN	YUANA	YUANA	27.25	6.60	2.35	PEKAL	923	19.17	5.42	1.42	31.24	21.60	0.00		0	0	23-24	B SO	BSA	1984	12	47.3
8	PANDUI	TJIN KANG IK	PEKALONGAN	PEKAL	23.50	5.90	1.85	PEKAL	573	19.25	5.45	1.26	27.99	23.45	0.00		0	0	23.0	B SO	BSA	1980	7	18.9
9	BINTANG WJAYA	LOE TIONG PENG	PEKALONGAN	PEKAL	27.50	6.90	2.40	PEKAL	1045	19.35	5.68	1.42	32.47	23.26	0.00		0	0	22-23	B SO	BSA	1987	14	55.0
10	ALONG JAYA ABADI	ARIF MUNDAR	PEKALONGAN	PEKAL	26.95	6.70	2.30	PEKAL	1209	19.33	5.48	1.39	31.18	21.28	0.00		10	8	23.0	B SO	BSA	1985	14	55.0
11	A.PODO RUKUN	DUADI INDAH-WATI	PEKALONGAN	PEKAL	26.20	6.72	2.05	PEKAL	922	19.11	5.45	1.41	31.10	21.53	0.00		0	0	22-23	B SO	BSA	1985	12	0.0
12	INDAH MAKMUR	ASMAN (MWM)	PEKALONGAN	PEKAL	28.24	7.31	2.30	PEKAL	01	23.80	7.25	2.30	27.70	0.00	0.00		9	8	22-23	B RO	BSA	1991	12	55.0
13	PUTRA BUNGSU	SUYANTO	PEKALONGAN	PEKAL	27.68	7.09	2.25	PEKAL	1073	19.09	5.41	1.42	31.06	21.85	0.00		0	0	23.0	B SO	BSA	1988	14	55.0
14	ASSAADAH BARU	H.CHOLIK ACHMAD	PEKALONGAN	PEKAL	24.05	6.08	1.95	PEKAL	996	19.20	5.55	1.00	33.88	23.18	0.00		0	0	22.0	B SO	BSA	1983	8	32.0
15	PUTRA MANUNGAL MAKMUR	SUYANTO ARTOJOYO	PEKALONGAN	PEKAL	26.95	6.68	2.35	PEKAL	904	19.15	5.46	1.42	31.44	21.97	0.00		0	0	22-23	D SO	BSA	1990	14	55.0
16	TRUMUTTI	MYO SEAT ROW	PEKALONGAN	PEKAL	26.15	6.75	2.15	PEKAL	858	19.23	5.43	1.42	31.40	22.05	0.00		9	8	22-23	B SO	BSA	1988	14	55.0
17	PERINTIS SEJAHTERA	HASIM	PEKALONGAN	PEKAL	23.50	5.90	1.60	PEKAL	690	19.39	5.65	1.46	33.71	17.58	19.80		9	7	22.0	B SO	BSA	1983	9	27.0
18	PARINGI JOYO	NANO TRIWJONO	PEKALONGAN	PEKAL	26.32	6.73	1.95	PEKAL	967	19.19	5.42	1.41	31.06	21.99	0.00		0	0	22.0	B SO	BSA	1988	12	41.0
19	PUSTAKA ABADI	RUSMELI	PEKALONGAN	PEKAL	24.55	6.60	1.75	PEKAL	783	19.45	5.56	1.37	31.39	20.35	0.00		0	0	22.0	D SO	BSA	1984	10	0.0
20	THISEJATI	JANPARMA	PEKALONGAN	PEKAL	28.90	7.09	2.15	PEKAL	1090	19.25	5.90	1.30	31.26	22.82	0.00		0	0	22-23	B SO	BSA	1988	12	64.8
21	TEGUH MAKMUR	RUDIHERMAN	PEKALONGAN	PEKAL	28.30	7.19	2.10	PEKAL	1120	19.50	5.50	1.37	31.37	19.86	0.00		0	0	22-23	B RO	BSA	1988	12	0.0
22	PERTAM	ARIF WJAYA	PEKALONGAN	PEKAL	24.80	6.25	1.87	PEKAL	794	19.48	5.58	1.36	31.19	20.96	0.00		0	0	22.0	B SO	BSA	1983	10	0.0
23	LAKSANA JAYA	HONG GIOK SAN	PEKALONGAN	PEKAL	26.10	6.80	2.00	PEKAL	892	18.15	5.12	1.54	30.11	19.09	0.00		0	0	22-23	D SO	BSA	1985	12	50.0
24	BIMA SAKTI A	GIAM MEI LING	PEKALONGAN	PEKAL	26.85	6.83	2.05	PEKAL	1013	19.18	5.43	1.42	31.32	22.08	0.00		0	0	22-23	B SO	BSA	1988	14	0.0
25	DERINGIN JAYA VII	HERLINA SIDHARTA	JAKARTA	PEKAL	25.95	6.67	2.15	PEKAL	867	19.35	5.52	1.40	31.60	22.45	0.00		0	0	22-23	B SO	BSA	1985	12	0.0
26	BINTANG MAS	ASMAN	PEKALONGAN	PEKAL	27.65	6.69	2.25	PEKAL	1062	19.18	5.46	1.42	31.48	21.98	0.00		0	0	22-23	B SO	BSA	1987	12	50.0
27	ANTA WIDAWA	0	0	PEKAL	23.40	6.00	1.42	PEKAL	684	19.20	5.60	1.45	33.31	23.10	0.00		0	0	22.0	D SO	BSA	1983	10	22.7
28	ANUGRAH JAYA	TAHROUJI	BATANG	BATANG	24.00	6.10	1.85	PEKAL	668	0.00	0.00	0.00	0.00	0.00	0.00		0	0	22.0	B SO	BSA	1983	8	21.8
29	BINTANG BAHARI	SARMAN ADI	PEKALONGAN	PEKAL	24.90	6.90	2.00	PEKAL	814	19.50	5.62	1.36	31.56	20.99	0.00		0	0	22.0	B SO	BSA	1984	10	48.6
30	SATURNUS	W SUSANTO	PEKALONGAN	PEKAL	27.80	7.05	2.25	PEKAL	20	23.90	7.15	2.20	0.00	0.00	0.00		0	0	23.0	B RO	BSA	1991	12	0.0
31	SUMBER DAYA MAKMUR	RATNA LISTIANI	PEKALONGAN	PEKAL	26.90	6.70	2.05	PEKAL	1010	19.15	5.47	1.42	31.50	22.07	0.00		0	0	22-23	D SO	BSA	1990	12	0.0
32	SUGIH WARAS	AMAN ACUNG	PEKALONGAN	PEKAL	28.28	7.73	2.30	PEKAL	113	0.00	0.00	0.00	95.00	0.00	0.00		10	9	23-25	B SO	BSA	1992	12	0.0
33	UNION JAYA ABADI	AGUS NURSALIM	PEKALONGAN	PEKAL	25.80	6.85	2.20	PEKAL	874	0.00	0.00	0.00	0.00	0.00	0.00		9	8	22-23	B SO	BSA	1987	12	48.6
34	SENYUM HARAPAN	PAUL ADITOPO	PEKALONGAN	PEKAL	25.68	6.73	2.00	PEKAL	790	19.50	5.60	1.35	31.23	21.28	0.00		0	0	22-23	B SO	BSA	1984	10	40.5
35	TRIMINA JAYA	RIYANTO	PEKALONGAN	PEKAL	25.52	6.73	2.05	PEKAL	835/25	30.00	5.52	1.30	30.39	21.04	0.00		0	0	22-23	D SO	BSA	1985	12	40.5
36	SINAR MANUNGAL ABADI	SUYANTO	PEKALONGAN	PEKAL	27.00	7.03	2.27	PEKAL	0	19.16	5.46	1.42	31.48	22.24	0.00		0	0	22-23	B SO	BSA	1988	14	45.9
37	SRIKANDI	SUHARTONO	PEKALONGAN	PEKAL	25.86	6.74	2.15	PEKAL	884	19.37	5.48	1.39	31.24	22.18	0.00		0	0	22-23	B SO	BSA	1984	12	43.2
38	SAMUDRA PASIFIK	HABIDUL ROHM	BATANG	PEKAL	27.72	7.05	2.30	PEKAL	1024	19.15	5.47	1.42	31.50	22.07	0.00		9	8	23-25	B SO	BSA	1987	12	54.0
39	MEGAH SEJATI	ASMAN (MWM)	PEKALONGAN	PEKAL	30.00	6.98	2.25	PEKAL	34	20.21	6.95	2.11	70.00	37.00	0.00		10	9	23-25	D RO	BSA	1991	12	64.0
40	SAMODHA LUAS	ALIP CIPTO	PEKALONGAN	PEKAL	26.92	6.82	2.20	PEKAL	969	19.22	5.44	1.42	31.44	21.88	0.00		0	0	24-25	B SO	BSA	1988	12	54.0
41	SINAR JAYA A	M. SANTOSO	PEKALONGAN	PEKAL	27.24	6.90	2.25	PEKAL	124	23.90	6.90	2.20	105.00	63.00	0.00		0	0	22-23	B SO	BSA	1986	14	47.3
42	SENYUM MAKMUR	PAUL ADITOPO	PEKALONGAN	PEKAL	25.23	6.60	2.10	PEKAL	975	19.50	5.55	1.38	31.63	22.39	0.00		0	0	22-23	B SO	BSA	1984	12	36.6
43	SUNARISO MAKMUR	SE HONG	PEKALONGAN	PEKAL	30.39	7.65	2.35	PEKAL	109	0.00	0.00	0.00	94.00	0.00	0.00		0	0	24-25	D SO	BSA	1992	12	75.8
44	MINA MASTAMA	RIYANTO	PEKALONGAN	PEKAL	28.25	6.75	1.85	PEKAL	947	19.18	5.43	1.42	31.32	21.84	0.00		0	0	22-23	B SO	BSA	1988	12	0.0
45	MINA KARYA	RIYANTO	PEKALONGAN	PEKAL	25.25	6.82	2.05	PEKAL	825	0.00	0.00	0.00	0.00	0.00	0.00		9	8	22.0	B SO	BSA	1984	12	45.9
46	MINA JAYA I	RIYANTO	PEKALONGAN	PEKAL	25.40	6.75	1.90	PEKAL	745	19.02	5.03	1.24	25.12	17.18	0.00		0	0	22.0	B SO	BSA	1985	10	0.0
47	MEGAH MAKMUR	ASMAN/MWM	PEKALONGAN	PEKAL	20.20	7.35	2.25	PEKAL	1211	0.00	0.00	0.00	0.00	0.00	0.00		0	0	22-23	D RO	BSA	1990	12	0.0
48	MUSTIKA SAKTI	H A SARYANI	YUANA	YUANA	26.58	6.89	2.10	PEKAL	880	19.30	5.47	1.39	31.08	21.53	0.00		9	8	22	B SO	BSA	1991	12	0.0
49	ARADIKA	SYAMSURI	PEKALONGAN	PEKAL	25.75	6.65	2.10	PEKAL	901	19.24	5.44	1.47	31.25	21.76	0.00		0	0	22	B SO	BSA	1985	12	45.9
50	PERINTIS PERKASA	WRIDAYANI	PEKALONGAN	PEKAL	27.85	6.95	2.40	PEKAL	1043	19.29	5.46	1.41	31.67	22.43	0.00		0	0	23-25	B SO	BSA	1987	12	67.6

No.	HOLDS	ENGL MARK	NO. CYL	HP	GEAR BOX RED.	GEN.1 MARK	MOUEL1	GEN1 HP	GEN1 KW	GEN.2 MARK	MODEL2	GEN2 HP	GEN2 KW	NO LAMPS	LAMP	TYPE	TOTAL	RADIO	MARK	TYPE	CHART'S	NO.	MESH	MESH
	CAP. (cu.m)														GALAXY watt	MERCURY watt	WATTAGE watt				PIECES NET	WING inch	HUNT inch	
1	80.4	AEC	6	180	3:1	KUBOTA	0	22.0	10.0	0	0	0.0	0.0	76	2400	5000	7400	Y	YAETSU	FT 180	Y	0	1.00	0.75
2	83.8	AFC	6	160	3:1	KUBOTA	0	25.0	15.0	0	0	0.0	0.0	26	1000	6000	7000	Y	ICOM	722	Y	0	1.00	0.75
3	142.4	NISSAN	8	240	4:1	MITSUBISHI	0	0.0	20.0	0	0	0.0	0.0	24	2400	4500	6900	Y	ICOM	700	Y	0	1.00	0.75
4	87.8	AEC	6	180	3:1	MITSUBISHI	0	0.0	20.0	0	0	0.0	0.0	30	3200	5500	8700	Y	ICOM	0	Y	0	1.00	0.75
5	98.3	HINO	6	240	3:1	MITSUBISHI	0	0.0	20.0	DONGFENG	0	14.0	5.0	19	2800	3000	5800	Y	ICOM	700	Y	0	1.00	0.75
6	57.8	AEC	6	160	3:1	DONGFENG	0	16.0	10.0	DONGFENG	0	12.0	7.5	18	1900	3000	4900	Y	ICOM	700	Y	0	1.00	0.75
7	78.5	AEC	6	180	3:1	YANMAR	TF155	15.5	7.5	YANMAR	TF 115	11.5	7.5	22	2400	4000	6400	Y	ICOM	700	Y	0	1.00	0.75
8	21.1	AEC	6	180	3:1	YANMAR	0	12.0	5.0	0	0	0.0	0.0	10	1000	2000	3000	N	0	0	N	0	1.00	0.75
9	87.5	AEC	6	180	4:1	KUBOTA	0	12.0	10.0	0	0	0.0	0.0	28	800	6000	6800	Y	ICOM	0	Y	89	1.00	0.75
10	85.5	AFC	6	160	3:1	YANMAR	0	23.0	15.0	0	0	0.0	0.0	18	800	4000	4800	Y	ICOM	700	Y	89	1.00	0.75
11	85.9	AEC	6	160	3:1	0	0	0.0	0.0	0	0	0.0	0.0	16	800	3500	4300	0	0	0	0	0	0.00	0.00
12	82.7	AEC	6	160	3:1	MITSUBISHI	0	0.0	15.0	0	0	0.0	0.0	22	1000	5000	6000	Y	ICOM	735	Y	89	1.00	0.75
13	91.1	AEC	6	160	3:1	KUBOTA	0	22.0	10.0	0	0	0.0	0.0	0	0	0	0	Y	ICOM	735	Y	0	0.00	0.00
14	0.0	AFC	6	160	3:1	DONGFENG	0	12.0	7.5	0	0	0.0	0.0	12	800	2500	3200	N	0	0	N	0	1.00	0.75
15	0.0	AEC	6	160	3:1	YANMAR	0	21.0	13.0	0	0	0.0	0.0	22	900	5000	5900	Y	ICOM	700	Y	89	1.00	0.75
16	0.0	AEC	6	160	3:1	MITSUBISHI	0	0.0	15.0	0	0	0.0	0.0	20	2100	5800	7700	Y	ICOM	735	Y	0	1.00	0.75
17	38.6	AEC	6	160	4:1	YANMAR	TF 155	15.5	7.5	0	0	0.0	0.0	11	1200	2000	3200	Y	ICOM	735	Y	52	1.00	0.75
18	76.8	AEC	6	160	3:1	YANMAR	TF 155	15.5	10.0	0	0	0.0	0.0	14	1600	2500	4100	Y	ICOM	700	Y	0	1.00	0.75
19	63.9	AEC	6	160	3:1	YANMAR	0	13.5	7.5	0	0	0.0	0.0	12	800	3000	3800	Y	MANDALA	0	Y	0	1.00	0.75
20	89.1	AEC	6	160	3:1	YANMAR	TF 155	15.5	10.0	0	0	0.0	0.0	14	800	4800	5600	Y	ICOM	700	Y	0	1.00	0.75
21	102.7	HINO	6	240	3:1	MITSUBISHI	0	0.0	20.0	DONGFENG	0	10.5	5.0	22	3000	8000	11000	Y	ICOM	700	Y	0	1.00	0.75
22	57.8	AEC	6	160	3:1	ISUZU	0	0.0	7.5	YANMAR	0	7.5	3.0	32	1000	7500	8500	Y	ICOM	700	N	0	1.00	0.75
23	0.0	AEC	6	160	3:1	YANMAR	0	23.0	15.0	KUBOTA	0	7.0	3.5	27	1400	5500	6900	Y	ICOM	725	Y	0	1.00	0.75
24	76.8	AEC	6	160	3:1	DONGFENG	0	15.0	5.0	KUBOTA	0	10.0	5.0	12	1800	2000	3800	Y	ICOM	735	Y	0	1.00	0.75
25	0.0	AEC	6	160	3:1	MITSUBISHI	0	0.0	15.0	YANMAR	0	10.0	1.0	28	1000	8000	7000	Y	ICOM	700	Y	0	1.00	0.75
26	0.0	AEC	6	160	3:1	MITSUBISHI	0	0.0	15.0	0	0	0.0	0.0	21	500	5000	5500	Y	ICOM	IC-725	Y	0	1.00	0.75
27	46.2	AEC	6	160	3:1	YANMAR	0	14.0	5.0	0	0	0.0	0.0	9	500	2000	2500	N	0	0	N	0	1.00	0.75
28	45.8	AEC	6	160	3:1	MITSUBISHI	0	0.0	20.0	0	0	0.0	0.0	22	1500	5000	6500	Y	ICOM	700	N	0	1.00	0.75
29	92.6	AEC	6	160	3:1	ISUZU	0	32.0	20.0	0	0	0.0	0.0	32	1550	5000	6550	Y	ICOM	700	Y	0	1.00	0.75
30	87.3	HINO EX	6	240	3:1	MITSUBISHI	4D	0.0	20.0	YANMAR	TF 105	10.5	5.0	24	2000	5000	7000	Y	ICOM	700	Y	0	1.00	0.75
31	90.5	AEC	6	160	3:1	MITSUBISHI	0	0.0	15.0	0	0	0.0	0.0	23	4000	0000	13000	Y	ICOM	700	Y	0	1.00	0.75
32	121.0	NISSAN	8	300	4:1	MITSUBISHI	0	100.0	20.0	YANMAR	0	23.0	15.0	34	9100	0	9100	Y	ICOM	735	Y	0	1.00	0.75
33	68.1	AEC	6	160	3:1	MITSUBISHI	0	100.0	20.0	0	0	0.0	0.0	25	1000	7250	8250	Y	ICOM	700	Y	0	1.00	0.75
34	57.4	AFC	6	160	3:1	MITSUBISHI	0	0.0	20.0	0	0	0.0	0.0	22	2800	3500	6100	Y	ICOM	700	Y	0	1.00	0.75
35	70.0	AEC	6	160	3:1	YANMAR	0	17.0	10.0	0	0	0.0	0.0	18	500	3500	4000	Y	YAETSU	FT-180	Y	0	1.00	0.75
36	95.2	AEC	6	160	3:1	YANMAR	0	23.0	15.0	0	0	0.0	0.0	28	1000	8000	7000	Y	ICOM	700	Y	0	1.00	0.75
37	0.0	AEC	6	160	3:1	ISUZU	0	32.0	15.0	YANMAR	0	7.5	3.0	32	1800	7500	9100	Y	ICOM	700	Y	0	1.00	0.75
38	0.0	AEC	6	160	3:1	MITSUBISHI	0	0.0	20.0	0	0	0.0	0.0	22	1600	10000	11600	Y	YAETSU	FT 180	N	0	1.00	0.75
39	96.4	HINO	6	220	4:1	MITSUBISHI	0	0.0	20.0	0	0	0.0	0.0	24	6000	5000	11000	Y	ICOM	735	Y	0	1.00	0.75
40	0.0	AEC	6	160	3:1	ISUZU	0	32.0	7.5	0	0	0.0	0.0	30	1500	4000	5500	Y	ICOM	700	Y	0	1.00	0.75
41	101.4	AEC	6	160	3:1	YANMAR	TS 230	23.0	10.0	0	0	0.0	0.0	14	800	3000	3800	Y	ICOM	700	Y	0	1.00	0.75
42	79.7	AEC	6	160	3:1	DONGFENG	0	12.5	7.5	0	0	0.0	0.0	10	3500	0	3500	Y	ICOM	700	Y	0	1.00	0.75
43	129.5	NISSAN	8	240	4:1	YANMAR	0	30.0	20.0	0	0	0.0	0.0	25	6600	500	7100	Y	ICOM	725	Y	0	1.00	0.75
44	77.7	AEC	6	160	3:1	YANMAR	TF 155	15.5	5.0	0	0	0.0	0.0	10	1000	2000	3000	Y	YAETSU	FT 180	Y	0	1.00	0.75
45	71.5	AEC	6	160	3:1	KUBOTA	0	22.0	10.0	0	0	0.0	0.0	12	3000	0	3000	Y	YAETSU	FT 180	Y	0	1.00	0.75
46	61.3	AFC	6	160	3:1	YANMAR	TF 155	15.5	5.0	0	0	0.0	0.0	12	1000	2500	3500	Y	YAETSU	FT 180	Y	0	1.00	0.75
47	90.9	HINO	6	220	4:1	MITSUBISHI	0	0.0	15.0	0	0	0.0	0.0	16	5900	500	6300	Y	ICOM	0	Y	0	1.00	0.75
48	74.9	AEC	6	160	3:1	0	0	0.0	0.0	0	0	0.0	0.0	0	0	0	0	Y	YAETSU	FT 180	Y	0	1.00	0.75
49	79.4	AEC	6	160	3:1	YANMAR	0	18.0	7.5	0	0	0.0	0.0	17	400	4000	4400	Y	ICOM	700	Y	0	1.00	0.75
50	103.3	MERCY	6	240	4:1	YANMAR	TS 230	23.0	15.0	0	0	0.0	0.0	20	3000	3500	6500	Y	ICOM	700	Y	0	1.00	0.75





No.	HOLDS CAP. (cu.m)	ENGL. MARK	NO. CYL.	I/P	GEAR BOX RED.	GEN.1 MARK	MODEL1	GEN1 HP	GEN1 KW	GEN.2 MARK	MODEL2	GEN2 HP	GEN2 KW	NO.LAMPS	LAMP	TYPE	TOTAL	RADIO	MARK	TYPE	CHARTS	NO.	MESH	MESH
															GALAXY wall	MERCURY wall	WATTAGE wall				PIECES NET	WING inch	DUNT inch	
51	98.3	AEC	6	160	3:1	DONGFENG	0	15.0	11.0	0	0	0.0	0.0	7	1000	1400	2400	Y	YAETSU	FT 180	Y	0	1.00	0.75
52	72.0	AEC	6	160	3:1	MITSUBISHI	4D30-OA	0.0	0.0	0	0	0.0	0.0	22	1600	4500	6100	Y	ICOM	0	Y	0	1.00	0.75
53	100.5	HINO	6	220	4:1	ISUZU	0	100.0	20.0	0	0	0.0	0.0	24	9600	0	9600	Y	ICOM	725	Y	0	1.00	0.75
54	42.1	NISSAN	8	240	4:1	MITSUBISHI	0	100.0	20.0	0	0	0.0	0.0	28	11700	0	11700	Y	ICOM	700	Y	0	1.00	0.75
55	58.8	AEC	6	160	3:1	DONGFENG	0	15.0	10.0	0	0	0.0	0.0	28	800	6000	6800	Y	ICOM	0	Y	0	1.00	0.75
56	115.9	HINO	6	220	4:1	MITSUBISHI	0	0.0	30.0	MITSUBISHI	0	0.0	30.0	38	11400	0	11400	Y	ICOM	735	Y	0	1.00	0.75
57	75.2	HINO	6	220	4:1	MITSUBISHI	0	0.0	18.0	0	0	0.0	0.0	20	1600	8000	9600	Y	ICOM	725	Y	0	1.00	0.75
58	55.5	AEC	6	160	3:1	DONGFENG	0	17.0	10.0	0.0	0	0.0	0.0	8	3600	0	3600	Y	ICOM	0	Y	0	1.00	0.75
59	72.6	AEC	6	160	3:1	YANMAR	0	12.5	5.0	0	0	0.0	0.0	13	1000	2750	3750	N	0	0	N	0	1.00	0.75
60	0.0	AEC	6	160	3:1	MITSUBISHI	0	0.0	15.0	0	0	0.0	0.0	16	800	5800	6400	Y	ICOM	700	N	0	1.00	0.75
61	82.2	AEC	6	160	3:1	YANMAR	TF 155	15.5	5.0	0	0	0.0	0.0	14	1500	3000	4500	Y	FRIO	335	Y	0	1.00	0.75
62	73.1	AEC	6	160	3:1	YANMAR	0	12.0	7.5	0	0.0	0.0	0.0	13	1500	2500	4000	Y	ICOM	725	Y	0	1.00	0.75
63	102.8	AEC	6	160	4:1	YANMAR	0	19.0	10.0	DONGFENG	0.0	12.0	5.0	0	0	0	0	Y	ICOM	700	Y	0	1.00	0.75
64	85.2	AEC	6	160	3:1	YANMAR	0	18.0	10.0	0	0	0.0	0.0	10	800	2000	2800	Y	ICOM	700	Y	0	1.00	0.75
65	101.0	HINO	6	220	4:1	DONGFENG	0	16.0	10.0	0	0	0.0	0.0	10	5000	0	5000	Y	ICOM	700	Y	0	1.00	0.75
66	52.4	AEC	6	160	3:1	YANMAR	TF 155	15.5	10.0	0	0	0.0	0.0	10	800	2000	2800	Y	ICOM	700	N	0	1.00	0.75
67	109.1	NISSAN	8	280	4:1	MITSUBISHI	0	32.0	20.0	KUBOTA	0	25.0	15.0	26	3600	4500	8100	Y	ICOM	735	Y	0	1.00	0.75
68	132.7	NISSAN	8	280	4:1	MITSUBISHI	0	32.0	20.0	0	0	0.0	0.0	17	7800	0	7800	Y	ICOM	0	Y	0	1.00	0.75
69	0.0	AEC	6	160	3:1	KUBOTA	0	19.0	10.0	0	0	0.0	0.0	16	1800	3000	4800	Y	ICOM	700	Y	0	1.00	0.75
70	0.0	HINO	6	220	4:1	MITSUBISHI	0	80.0	20.0	0	0	0.0	0.0	34	9250	0	9250	Y	ICOM	735	N	89	1.00	0.75
71	0.0	AEC	6	160	3:1	KUBOTA	0	18.0	10.0	0	0	0.0	0.0	10	1600	1500	3100	N	0	0	N	0	1.00	0.75
72	71.9	AEC	6	160	3:1	DONGFENG	0	12.0	5.0	0	0	0.0	0.0	14	0	3500	3500	Y	ICOM	700	N	89	1.00	0.75
73	67.0	AEC	6	160	3:1	ISUZU	0	45.0	15.0	0	0	0.0	0.0	32	1000	7000	8000	Y	ICOM	700	Y	89	1.00	0.75
74	119.1	HINO	6	220	4:1	MITSUBISHI	0	0.0	20.0	0.0	0	0.0	0.0	24	7200	0	7200	Y	ICOM	735	Y	0	1.00	0.75
75	0.0	AEC	6	160	3:1	MITSUBISHI	0	0.0	10.0	0.0	0	0.0	0.0	0	0	0	0	Y	KENWOOD	0	Y	0	1.00	0.75
76	0.0	AEC	6	160	3:1	DONGFENG	0	15.0	10.0	0	0	0.0	0.0	12	3600	1500	5100	Y	ICOM	735	Y	0	1.00	0.75
77	96.1	MERCY	6	210	4:1	KUBOTA	0	19.0	10.0	0	0	0.0	0.0	17	4200	2500	6700	Y	ICOM	700	Y	0	1.00	0.75
78	0.0	AEC	6	160	3:1	YANMAR	0	23.0	0.0	0	0	0.0	0.0	16	2700	2500	5200	Y	ICOM	700	Y	0	1.00	0.75
79	74.3	AEC	6	160	3:1	WOLING	0	18.0	10.0	DONGFENG	0	12.0	5.0	20	2800	3000	5800	Y	ICOM	700	Y	0	1.00	0.75
80	0.0	AEC	6	160	3:1	DONGFENG	0	12.0	5.0	KUBOTA	0	12.0	5.0	16	2700	2500	5200	Y	KENWOOD	0	Y	0	1.00	0.75
81	77.8	NISSAN	8	280	4:1	MITSUBISHI	0	0.0	20.0	0	0	0.0	0.0	28	1600	9800	11200	Y	ICOM	725	Y	0	1.00	0.75
82	75.5	AEC	6	160	3:1	MITSUBISHI	4D30-OA	0.0	20.0	0	0	0.0	0.0	21	1600	4250	5850	Y	ICOM	0	Y	0	1.00	0.75
83	0.0	AEC	6	160	3:1	ISUZU	0	32.0	20.0	YANMAR	0	7.5	3.5	30	800	7500	8300	Y	ICOM	700	Y	0	1.00	0.75
84	47.2	AEC	6	160	3:1	KUBOTA	0	18.0	10.0	0	0	0.0	0.0	18	800	3500	4300	Y	KENWOOD	0	N	0	1.00	0.75
85	88.6	AEC	6	160	3:1	YANMAR	TS230	23.0	10.0	0	0	0.0	0.0	22	1000	5000	6000	Y	ICOM	700	N	0	1.00	0.75
86	83.6	NISSAN	8	300	4:1	KUBOTA	0	23.0	15.0	0	0	0.0	0.0	24	6800	0	6800	Y	ICOM	735	Y	0	1.00	0.75
87	111.5	NISSAN	10	340	4:1	MITSUBISHI	0	0.0	30.0	0	0	0.0	0.0	24	6000	3000	9000	Y	ICOM	700	Y	0	1.00	0.75
88	52.08	AEC	6	160	3:1	YANMAR	0	15.0	10.0	0	0	0.0	0.0	12	8000	2000	8000	Y	ICOM	725	Y	0	1.00	0.75
89	48.6	AEC	6	160	3:1	YANMAR	TF105	10.5	5.0	0	0	0.0	0.0	9	450	2000	2450	N	0	0	0	0	1.00	0.75
90	86.7	AEC	6	160	3:1	YANMAR	TS230	23.0	15.0	0	0	0.0	0.0	12	800	2500	3300	Y	ANKITSU	0	Y	0	1.00	0.75
91	0.0	AEC	6	160	3:1	MITSUBISHI	0	0.0	20.0	YANMAR	0	7.5	3.0	28	800	6500	7300	Y	ICOM	700	Y	0	1.00	0.75
92	90.8	AEC	6	160	3:1	KUBOTA	0	19.0	10.0	0	0	0.0	0.0	16	2700	2500	5200	Y	KENWOOD	0	Y	0	1.00	0.75
93	48.7	AEC	6	160	3:1	KUBOTA	0	11.0	7.0	0	0	0.0	0.0	10	3000	2000	5000	Y	KENWOOD	0	N	0	1.00	0.75
94	106.0	NISSAN	8	240	4:1	YANMAR	TS230	23.0	10.0	0	0	0.0	0.0	8	4000	0	4000	Y	ICOM	735	Y	0	1.00	0.75
95	0.0	AEC	6	160	3:1	YANMAR	TS230	23.0	12.5	0	0	0.0	0.0	22	4500	3000	7500	Y	ICOM	735	Y	0	1.00	0.75
96	149.5	HINO	6	280	4:1	YANMAR	TS230	23.0	10.0	YANMAR	TS230	23.0	10.0	18	8000	0	8000	Y	ICOM	735	Y	0	1.00	0.75
97	71.9	AEC	6	160	3:1	YANMAR	0	18.0	15.0	YANMAR	0	0.0	5.0	24	3700	3500	7200	Y	YAETSU	FT180	Y	0	1.00	0.75
98	0.0	AEC	6	160	3:1	DONGFENG	0	18.0	10.5	DONGFENG	0	18.0	7.5	20	1600	4000	5600	Y	ICOM	0	Y	0	1.00	0.75
99	0.0	AEC	6	160	3:1	YANMAR	TS230	23.0	10.0	0	0	0.0	0.0	24	1000	5500	6500	Y	ICOM	735	Y	0	1.00	0.75

# MEDIUM PURSE SEINERS

NO	VESSEL	OWNER	ADDRESS	PORT	MEASURED DIMENSIONS			PORT REG.	REG. NO.	REGISTRATION DIMENSIONS				
					LOA m	BEAM m	DEPTH m			L m	B m	D m	GT	NT
1	SIDO MUMBUL JAYA II	SUGIYARTO R.	PEKAL.	PEKAL.	21.45	6,80	2,45	PEKAL.	128	20.85	6.85	2.25	89.00	53.00
2	TIARA MINA MANDIRI	RIYANTO	PEKAL.	PEKAL.	22.50	6,70	2,20	PEKAL.	N/A	21.45	6.70	2.00	84.00	50.00
3	SIDO MUMBUL JAYA	SUGIHARTO W.	PEKAL.	PEKAL.	22.50	6,80	2,10	PEKAL.	60	21.50	6.00	2.00	83.00	49.00
4	SINAR ABADI JAYA	N/A	N/A	PEKAL.	17.45	5,10	1,20	PEKAL.	N/A	N/A	N/A	N/A	N/A	N/A
5	PRIMA GARNANTA	ENDAR ASTUTI	PEKAL.	PEKAL.	18.45	5,65	1,65	PEKAL.	1184	16.60	5.50	1.45	28.03	21.19
6	MULTI BINTANG	LIE KUO WIE	PEKAL.	PEKAL.	19.35	5,90	1,65	PEKAL.	1155	16.15	4.60	1.30	20.45	16.57
7	SUMBER HASIL	SULISTIONO G.	PEKAL.	PEKAL.	18.75	5,85	1,60	PEKAL.	1199	16.80	5.80	1.50	30.95	22.41
8	MINA EDHI HUTAMA	EDHI ANGGORO	PEKAL.	PEKAL.	24.00	7,35	2,20	PEKAL.	142	23.00	7.30	2.20	105.00	63.00
9	BUDI PUTRA JAYA	RUSITA	BATANG	BATANG	19.10	5,45	1,55	PEKAL.	852	N/A	N/A	N/A	N/A	N/A
10	ARUM BARU	CASINI	PEKAL.	PEKAL.	15.05	4,67	1,20	PEKAL.	1275	11.50	4.00	0.80	6.00	N/A
11	BINTANG SURYA	KISYANTO SURYA	PEKAL.	PEKAL.	23.25	6,20	2,10	PEKAL.	74	21.58	6.25	2.00	78.00	47.00
12	GUNUNG JATI JAYA A	IWAN MUNANDAR	PEKAL.	PEKAL.	19.50	6,30	2,05	PEKAL.	1110	18.05	4.25	1.25	16.92	13.76
13	LANGSUNG BERKAH D	DEWI RATIH	PEKAL.	PEKAL.	23.80	6,90	2,45	PEKAL.	115	22.35	6.90	2.25	98.00	59.00
14	SUMBER MAKMUR A	RATNA LISTIANI	PEKAL.	PEKAL.	18.60	5,80	1,60	PEKAL.	1133	16.05	5.70	1.36	26.35	20.73
15	SUMBER URIP	MOCH. SUSANTO	PEKAL.	PEKAL.	18.60	5,80	1,55	PEKAL.	1112	18.00	4.30	1.20	16.39	13.33
16	BUMI MAS JAYA	N/A	N/A	PEKAL.	17.60	5,60	1,20	PEKAL.	1206	N/A	N/A	N/A	N/A	N/A
17	PRATONDO REJO	JONI KRIJANTO	PEKAL.	PEKAL.	18.80	5,75	1,65	PEKAL.	1200	13.45	4.65	1.05	13.90	8.86
18	LANGSUNG BERKAH B	DJIE KIAN LONG	PEKAL.	PEKAL.	19.20	5,70	1,55	PEKAL.	1187	16.40	5.60	1.50	29.17	26.52
19	LASANA BERKAH	N/A	N/A	PEKAL.	18.20	5,50	1,20	PEKAL.	685	N/A	N/A	N/A	N/A	N/A
20	JASA MINA PERKASA	BUDIONO	PEKAL.	PEKAL.	23.20	6,55	2,20	PEKAL.	68	21.25	6.55	2.20	86.00	51.00
21	IKAN MAS	ELTIKAWATI	PEKAL.	PEKAL.	20.10	6,00	1,74	PEKAL.	1197	17.10	5.35	1.37	26.54	16.65
22	IRWAN I	TAN IE PING	PEKAL.	PEKAL.	17.60	5,30	1,20	PEKAL.	1116	N/A	N/A	N/A	N/A	N/A
23	JATI WANGI	NGATINAH	PEKAL.	PEKAL.	19.70	5,55	1,55	PEKAL.	1181	16.50	4.55	1.25	19.87	16.47
24	SIDO KLAKON TERUS	H. RAJAK	PEKAL.	PEKAL.	19.20	6,00	1,60	PEKAL.	1185	16.20	5.70	1.50	29.33	21.35
25	JITU PRIMA	HERI BUDIONO	PEKAL.	PEKAL.	18.80	5,50	1,60	PEKAL.	1150	14.20	5.20	1.10	17.20	11.73

NO	LKEEL m	PLANKS		WIDTH cm	VESSEL TYPE	PLACE BUILT	YEAR	NO. HOLDS	FISH STATED CAPACITY (ton)	HOLDS CAPACITY MEASURED (cu.m)	ENGINE MAKE	NO. CYL	HP	GEAR BOX REDUC.
		NO. BOTTOM	NO. BOTTOM											
1	N/A	N/A	N/A	24-35	MRO	PEKAL.	1992	10	40.5	N/A	NISSAN	8	240	4 : 1
2	N/A	N/A	N/A	24-35	MRO	PEKAL.	1992	11	35.1	56.3	HINO	6	280	3 : 1
3	N/A	N/A	N/A	24-35	MRO	PEKAL.	1991	10	45.9	55.4	ISUZU	6	N/A	4 : 1
4	N/A	N/A	N/A	24-30	MPI	N/A	N/A	5	16.2	19.8	MITSUBISHI	4	45	3 : 1
5	N/A	N/A	N/A	24-27	MRO	PEKAL.	1990	5	14.9	26.3	YANMAR	3	56	3 : 1
6	N/A	N/A	N/A	24-30	MPI	BATANG	1989	9	13.5	27.0	MITSUBISHI	6	160	3 : 1
7	N/A	N/A	N/A	24-30	MRO	BATANG	1989	11	18.9	33.7	MITSUBISHI	6	160	3 : 1
8	N/A	N/A	N/A	24-35	MRO	PEKAL.	1992	10	47.3	62.3	NISSAN	8	300	4 : 1
9	N/A	N/A	N/A	24-30	MPI	BATANG	1989	5	14.9	28.4	YANMAR	3	33	3 : 1
10	N/A	N/A	N/A	22-30	MPI	PEKAL.	N/A	4	6.8	N/A	YANMAR	3	33	3 : 1
11	N/A	N/A	N/A	24-35	MRO	PEKAL.	1991	8	32.4	51.5	HINO	6	240	4 : 1
12	N/A	N/A	N/A	22-30	MRO	PEKAL.	1988	8	23.0	30.5	MITSUBISHI	6	120	3 : 1
13	N/A	N/A	N/A	24-30	MRO	PEKAL.	1992	12	54.0	68.2	HINO	6	240	4 : 1
14	N/A	N/A	N/A	24-30	MPI	BATANG	1989	7	13.5	16.8	MITSUBISHI	4	80	3 : 1
15	N/A	N/A	N/A	24-30	MPI	BATANG	1988	6	13.5	26.4	MITSUBISHI	6	120	3 : 1
16	N/A	N/A	N/A	24-30	MPI	BATANG	N/A	6	16.2	24.9	MITSUBISHI	4	80	3 : 1
17	N/A	N/A	N/A	24-30	MRO	BATANG	1990	10	24.3	32.6	MITSUBISHI	6	120	3 : 1
18	N/A	N/A	N/A	24-30	MPI	BATANG	1990	9	13.5	28.2	MITSUBISHI	6	120	3 : 1
19	N/A	N/A	N/A	22-30	MPI	BATANG	N/A	5	10.8	N/A	MITSUBISHI	4	80	3 : 1
20	N/A	N/A	N/A	24-35	MRO	BATANG	1991	10	37.8	52.7	HINO	6	280	4 : 1
21	N/A	N/A	N/A	24-30	MRO	BATANG	1990	8	27.0	23.9	MITSUBISHI	6	90	3 : 1
22	N/A	N/A	N/A	24-30	MPI	BSA	1987	3	13.5	14.5	MITSUBISHI	3	36	2 : 1
23	N/A	N/A	N/A	24-30	MPI	BATANG	1989	8	30.1	N/A	MITSUBISHI	3	36	2 : 1
24	N/A	N/A	N/A	24-30	MPI	PEKAL.	1990	5	16.2	28.7	YANMAR	3	56	3 : 1
25	N/A	N/A	N/A	25-40	MRO	PEKAL.	1989	6	16.2	29.6	YANMAR	3	45	3 : 1

NO	GEN. 1				GEN. 2				NO LAMPS	LAMP TYPE		TOTAL WATTAGE	RADIO	MAKE	TYPE	CHARTS	NO. PIECES NET	LENGTH NET	DEPTH NET	MESH WING	MESH BUNT
	MAKE	MODEL	HP	KW	MAKE	MODEL	HP	KW		GALAXY	MERCURY										
1	YANMAR	N/A	15.5	7.5	0	0	0	0	12	3000	0	3000	Y	ICOM	700	N	N/A	N/A	N/A	1.00	0.75
2	YANMAR	TS230	23.0	10.0	0	0	0	0	18	0	4800	4800	Y	ICOM	735	N	N/A	N/A	N/A	1.00	0.75
3	YANMAR	TS190	19.0	10.0	0	0	0	0	12	0	3300	3300	Y	ICOM	700	N	N/A	N/A	N/A	1.00	0.75
4	DONGFENG	N/A	12.0	5.0	0	0	0	0	6	0	1500	1500	N	0	0	N	N/A	N/A	N/A	1.00	0.75
5	DONGFENG	N/A	13.2	5.0	0	0	0	0	10	0	2500	2500	N	0	0	N	N/A	N/A	N/A	1.00	0.75
6	YANMAR	TF105	10.5	5.0	0	0	0	0	9	1250	1500	2750	Y	ICOM	725	N	N/A	N/A	N/A	1.00	0.75
7	YANMAR	TF155	15.5	10.0	0	0	0	0	12	2400	1500	3900	Y	ICOM	735	N	N/A	N/A	N/A	1.00	0.75
8	YAMNAR	TS190	19.0	10.0	0	0	0	0	18	5700	0	5700	Y	ICOM	700	N	N/A	N/A	N/A	1.00	0.75
9	KUBOTA	N/A	11.5	5.0	0	0	0	0	8	1500	1000	2500	Y	ICOM	700	N	N/A	N/A	N/A	1.00	0.75
10	YANMAR	TF105	10.5	3.0	0	0	0	0	5	0	1250	1250	N	0	0	N	N/A	N/A	N/A	1.00	0.75
11	MITSUBISHI	N/A	80.0	15.0	0	0	0	0	21	6750	0	6750	Y	ICOM	725	Y	N/A	N/A	N/A	1.00	0.75
12	DONGFENG	N/A	27.0	10.0	0	0	0	0	12	3500	0	3500	Y	ICOM	700	N	N/A	N/A	N/A	1.00	0.75
13	MITSUBISHI	N/A	N/A	20.0	0	0	0	0	24	0	6000	6000	Y	ICOM	725	N	N/A	N/A	N/A	1.00	0.75
14	DONGFENG	N/A	16.0	3.0	0	0	0	0	7	500	1500	2000	Y	ICOM	700	N	N/A	N/A	N/A	1.00	0.75
15	YANMAR	TF105	10.5	5.0	0	0	0	0	10	500	2000	2500	Y	ICOM	700	N	N/A	N/A	N/A	1.00	0.75
16	DONGFENG	N/A	16.0	5.0	0	0	0	0	12	500	2500	3000	N	0	0	N	N/A	N/A	N/A	1.00	0.75
17	DONGFENG	N/A	16.0	5.0	0	0	0	0	12	500	2500	3000	N	0	0	N	N/A	N/A	N/A	1.00	0.75
18	KUBOTA	N/A	22.0	10.0	0	0	0	0	12	800	2500	3300	N	0	0	N	N/A	N/A	N/A	1.00	0.75
19	YANMAR	TF105	10.5	3.0	0	0	0	0	6	0	1500	1500	N	0	0	N	N/A	N/A	N/A	1.00	0.75
20	YANMAR	TS230	23.0	15.0	0	0	0	0	20	900	4500	5300	Y	ICOM	725	Y	N/A	N/A	N/A	1.00	0.75
21	YANMAR	TS230	23.0	10.0	0	0	0	0	14	7000	0	7000	Y	ICOM	700	N	N/A	N/A	N/A	1.00	0.75
22	YANMAR	TF155	15.5	7.5	0	0	0	0	4	1600	0	1600	N	0	0	N	N/A	N/A	N/A	1.00	0.75
23	YANMAR	TF155	15.5	7.5	0	0	0	0	4	1600	0	1600	N	0	0	N	N/A	N/A	N/A	1.00	0.75
24	KUBOTA	N/A	22.0	5.0	0	0	0	0	7	0	1750	1750	N	0	0	N	N/A	N/A	N/A	1.00	0.75
25	YANMAR	N/A	12.5	10.0	0	0	0	0	9	450	2000	2450	Y	ICOM	725	N	N/A	N/A	N/A	1.00	0.75

NO	VESSEL	OWNER	ADDRESS	PORT	MEASURED DIMENSIONS			PORT REG.	REG. NO.	REGISTRATION DIMENSIONS				
					LOA m	BEAM m	DEPTH m			L m	B m	D m	GT	NT
26	BINTANG CAHAYA	RIYANTO	PEKAL.	PEKAL.	17.90	6,10	1,40	PEKAL.	1140	14.10	5.80	1.20	20.78	14.44
27	BINATUR E	H. ANI MURTOPO	PEKAL.	PEKAL.	18.60	6,20	1,90	PEKAL.	1153	13.00	5.80	1.10	17.56	11.63
28	TEGUH HARAPAN D	RUDIHERMAN	PEKAL.	PEKAL.	18.40	6,10	1,45	PEKAL.	1158	12.20	5.60	1.20	17.36	11.14
29	PRIMA SEJATI	SUKINI HERMAN	PEKAL.	PEKAL.	19.30	6,20	1,85	PEKAL.	1190	17.90	6.00	1.50	34.12	24.77
30	CAKALANG II	TAN ENG HONG	PEKAL.	PEKAL.	19.30	5,90	1,65	PEKAL.	1131	16.70	5.95	1.40	29.46	21.47
31	GUNUNG JATI JAYA	IWAN MUNANDAR	PEKAL.	PEKAL.	18.70	5,65	1,55	PEKAL.	1110	18.05	4.25	1.25	16.92	13.76
32	JASA MINA MAKMUR	BUDIONO	PEKAL.	PEKAL.	18.70	5,80	1,70	PEKAL.	8	17.20	5.80	1.66	50.00	30.00
33	ROFIQOH A	ROSALI	PEKAL.	PEKAL.	16.80	5,20	1,35	PEKAL.	17	15.00	5.15	1.28	27.00	16.00
34	TATA SURYA	H. SLAMET M.	PEKAL.	PEKAL.	21.10	6,90	2,25	PEKAL.	3	18.82	6.80	2.00	63.00	37.00
35	GUNUNG JATI JAYA BARU	CANDRA PERMANA	PEKAL.	PEKAL.	20.90	7,00	2,30	PEKAL.	102	19.70	7.00	2.00	81.00	49.00
36	INDAH UTOMO	TARECHAN	BATANG	BATANG	19.30	6,40	1,85	PEKAL.	41	19.07	5.92	1.32	31.56	12.48
37	BUNGA UTOMO	A HIONG	PEKAL.	PEKAL.	19.90	5,90	1,60	PEKAL.	N/A	N/A	N/A	N/A	N/A	N/A
38	DYNASTY	MARTO	PEKAL.	PEKAL.	19.10	6,20	1,68	PEKAL.	1182	14.40	6.00	1.68	30.74	20.66
39	BINTANG MAS I	SYAMSUL	PEKAL.	PEKAL.	18.20	5,40	1,35	PEKAL.	1099	16.70	5.65	1.25	20.81	15.38
40	PUTRA MUSTIKA	SUKARDI SURYA	PEKAL.	PEKAL.	20.65	4,55	1,25	PEKAL.	1138	17.00	4.10	1.10	16.23	11.22
41	SIDO MUMBUL C	SUGIYARTO R.	PEKAL.	PEKAL.	19.40	6,40	1,60	PEKAL.	1205	14.60	5.80	1.50	26.90	18.17
42	SIDO MUMBUL	SUGIHARTO W.	PEKAL.	PEKAL.	18.70	5,72	1,45	PEKAL.	1159	14.20	5.28	1.24	19.69	13.20
43	SIDO MUMBUL B	SUGIYARTO R.	PEKAL.	PEKAL.	19.80	5,89	1,55	PEKAL.	117	14.20	5.20	1.20	17.26	N/A
44	APEL HIJAU	ONGGO HENDRAWAN	PEKAL.	PEKAL.	18.20	5,74	1,45	PEKAL.	1160	N/A	N/A	N/A	31.22	23.06
45	CAHAYA HARAPAN	TANTO	PEKAL.	PEKAL.	17.00	5,05	1,55	PEKAL.	N/A	N/A	N/A	N/A	N/A	N/A
46	TEGUH HARAPAN C	RUDIHERMAN	PEKAL.	PEKAL.	17.10	5,72	1,47	PEKAL.	1132	15.68	5.76	1.30	24.86	18.82
47	PRATAMA ABADI	N/A	N/A	PEKAL.	18.40	5,70	1,65	PEKAL.	N/A	N/A	N/A	N/A	N/A	N/A
48	HARAPAN	N/A	N/A	PEKAL.	18.30	5,40	1,27	PEKAL.	N/A	N/A	N/A	N/A	N/A	N/A
49	CAKALANG I	TAN ENG HONG	PEKAL.	PEKAL.	18.40	5,80	1,45	PEKAL.	1130	16.30	5.77	1.30	25.89	19.13

NO	LKEEL m	NO. BOTTOM	PLANKS		VESSEL TYPE	PLACE BUILT	YEAR	NO. HOLDS	FISH STATED CAPACITY (ton)	HOLDS CAPACITY MEASURED (cu.m)	ENGINE MAKE	NO. CYL	HP	GEAR BOX REDUC.
			NO. BOTTOM	WIDTH cm										
26	N/A	N/A	N/A	24-35	MPI	BATANG	1988	5	10.8	24.7	MITSUBISHI	3	36	2 : 1
27	N/A	N/A	N/A	20-30	MPI	PEKAL.	1989	7	24.3	44.7	MITSUBISHI	6	120	3 : 1
28	N/A	N/A	N/A	25-45	MPI	PEKAL.	1989	8	14.9	23.1	MITSUBISHI	4	80	3 : 1
29	N/A	N/A	N/A	24-35	MRO	PEKAL.	1990	10	21.6	32.4	MITSUBISHI	6	120	3 : 1
30	N/A	N/A	N/A	24-35	MPI	BATANG	1988	7	14.9	29.4	MITSUBISHI	4	80	3 : 1
31	16.0	N/A	N/A	20-30	MPI	BATANG	1988	8	16.9	30.6	MITSUBISHI	6	160	3 : 1
32	N/A	N/A	N/A	24-35	MRO	BATANG	1991	10	21.6	37.5	ISUZU	6	N/A	3 : 1
33	13,5	N/A	N/A	24-35	MPI	PEKAL.	1989	5	10.1	18.8	MITSUBISHI	4	45	3 : 1
34	N/A	N/A	N/A	24-32	MRO	BATANG	1991	10	26.5	41.5	MITSUBISHI	6	160	3 : 1
35	N/A	N/A	N/A	25-30	MRO	PEKAL.	1992	10	40.5	64.0	HINO	6	220	4 : 1
36	16.0	N/A	N/A	24-40	MPI	BSA	1985	10	27.0	50.7	YANMAR	4	82	3 : 1
37	17.0	N/A	N/A	27-40	MPI	BATANG	N/A	12	24.3	35.8	MITSUBISHI	6	160	3 : 1
38	N/A	N/A	N/A	24-30	MPI	PEKAL.	1989	6	13.5	30.0	MITSUBISHI	6	120	3 : 1
39	N/A	N/A	N/A	24-30	MPI	PEKAL.	1988	6	14.9	N/A	MITSUBISHI	4	120	3 : 1
40	N/A	N/A	N/A	24-27	MSQ	BSA	1988	4	12.2	19.8	YANMAR	3	56	3 : 1
41	N/A	N/A	N/A	24-35	MPI	PEKAL.	1990	8	16.2	29.3	MITSUBISHI	6	160	3 : 1
42	N/A	N/A	N/A	24-30	MPI	PEKAL.	1989	6	16.2	23.8	MITSUBISHI	4	45	3 : 1
43	N/A	N/A	N/A	24-30	MPI	PEKAL.	1989	8	17.6	22.4	MITSUBISHI	4	80	3 : 1
44	N/A	N/A	N/A	22-24	MPI	BSA	1984	5	16.2	N/A	MITSUBISHI	6	160	4 : 1
45	13.5	N/A	N/A	24-30	MPI	BATANG	1988	5	13.5	20.4	MITSUBISHI	4	80	3 : 1
46	N/A	N/A	N/A	24-30	MPI	BATANG	1989	8	16.2	30.6	MITSUBISHI	4	60	3 : 1
47	N/A	N/A	N/A	24-30	MPI	BATANG	1989	5	16.2	29.2	YANMAR	3	56	3 : 1
48	N/A	N/A	N/A	24-30	MPI	BATANG	N/A	8	13.5	21.9	MITSUBISHI	6	110	4 : 1
49	15.5	N/A	N/A	24-30	MPI	PEKAL.	1989	5	16.2	26.0	MITSUBISHI	6	100	3 : 1



NO	MAKE	GEN. 1			GEN. 2				NO LAMPS.	LAMP TYPE		TOTAL WATTAGE watt	RADIO	MAKE	TYPE	CHARTS	NO. PIECES NET	LENGTH NET	DEPTH NET	MESH WING Inch	MESH BUNT inch
		MODEL	HP	KW	MAKE	MODEL	HP	KW		GALAXY watt	MERCURY watt										
26	YANMAR	N/A	15.0	5.0	0	0	0	0	8	0	2000	2000	Y	YAETS	FT180	N	N/A	N/A	N/A	1.00	0.75
27	mitsubishi	N/A	18.0	7.5	0	0	0	0	12	0	3000	3000	Y	ICOM	725	N	N/A	N/A	N/A	1.00	0.75
28	TONGFONG	S195	13.2	7.5	0	0	0	0	7	450	3000	3450	Y	ICOM	700	N	N/A	N/A	N/A	1.00	0.75
29	YANMAR	TF155	15.5	7.5	0	0	0	0	14	500	3600	4100	Y	ICOM	725	N	N/A	N/A	N/A	1.00	0.75
30	YANMAR	TF105	10.5	5.0	0	0	0	0	8	900	1500	2400	Y	ICOM	700	N	N/A	N/A	N/A	1.00	0.75
31	DONGFENG	N/A	10.5	7.5	0	0	0	0	11	1500	2500	4000	Y	ICOM	725	N	N/A	N/A	N/A	1.00	0.75
32	YANMAR	TS230	23.0	8.0	0	0	0	0	18	2000	3500	5500	Y	ICOM	N/A	N	N/A	N/A	N/A	1.00	0.75
33	YANMAR	TF155	15.5	5.0	0	0	0	0	7	0	1750	1750	N	0	0	N	N/A	N/A	N/A	1.00	0.75
34	YANMAR	TS230	23.0	11.0	0	0	0	0	18	800	4000	4800	Y	ICOM	735	N	N/A	N/A	N/A	1.00	0.75
35	DONGFENG	N/A	14.5	7.5	0	0	0	0	14	2000	3000	5000	Y	ICOM	725	N	N/A	N/A	N/A	1.00	0.75
36	KUBOTA	N/A	19.0	10.0	0	0	0	0	14	2000	2500	4500	Y	ICOM	700	N	N/A	N/A	N/A	1.00	0.75
37	YANMAR	TF155	15.5	7.5	0	0	0	0	10	4500	0	4500	Y	ICOM	700	N	N/A	N/A	N/A	1.00	0.75
38	MITSUBISHI	N/A	N/A	7.5	0	0	0	0	11	1000	2000	3000	Y	YAETS	FT180	N	N/A	N/A	N/A	1.00	0.75
39	YANMAR	N/A	8.0	3.0	0	0	0	0	5	250	1150	1400	Y	ICOM	735	N	N/A	N/A	N/A	1.00	0.75
40	DONGFENG	N/A	12.0	5.0	0	0	0	0	7	0	1750	1750	N	0	0	N	N/A	N/A	N/A	1.00	0.75
41	YANMAR	TF155	15.5	7.5	0	0	0	0	11	250	2500	2750	Y	ICOM	725	N	N/A	N/A	N/A	1.00	0.75
42	YANMAR	N/A	9.5	5.0	0	0	0	0	7	250	1500	1750	Y	ICOM	N/A	N	N/A	N/A	N/A	1.00	0.75
43	YANMAR	TF105	10.5	3.0	0	0	0	0	9	250	2000	2250	Y	ICOM	725	N	N/A	N/A	N/A	1.00	0.75
44	DONGFENG	N/A	12.0	5.0	0	0	0	0	8	1500	1000	2500	N	0	0	N	N/A	N/A	N/A	1.00	0.75
45	DONGFENG	N/A	12.0	3.0	0	0	0	0	4	1000	0	1000	N	0	0	N	N/A	N/A	N/A	1.00	0.75
46	DONGFENG	N/A	12.0	5.0	0	0	0	0	9	750	2000	2750	Y	YAETS	FT180	N	N/A	N/A	N/A	1.00	0.75
47	MITSUBISHI	N/A	27.0	10.0	0	0	0	0	8	900	1500	2400	Y	ICOM	735	N	N/A	N/A	N/A	1.00	0.75
48	YANMAR	TF105	10.5	3.0	0	0	0	0	5	500	1000	1500	N	0	0	N	N/A	N/A	N/A	1.00	0.75
49	YANMAR	TF105	10.5	5.0	0	0	0	0	8	800	1500	2300	Y	ICOM	700	N	N/A	N/A	N/A	1.00	0.75

NO	VESSEL	OWNER	ADDRESS	PORT	MEASURED DIMENSIONS			PORT REG	REG. NO.	REGISTRATION DIMENSIONS				
					LOA m	BEAM m	DEPTH m			L m	B m	D m	GT	NT
50	PUTRA SEJATI III	ABDUL BARI	PEKAL.	PEKAL.	17.10	5.23	1.30	PEKAL.	1314	12.20	5.20	1.30	14.55	10.03
51	MINA GRAHA	TUTI SUMARNI	PEKAL.	PEKAL.	17.86	5.55	1.35	PEKAL.	1142	14.50	5.45	1.30	20.08	13.46
52	BINTANG ANUGRAH	HANDOYO WIBOWO	PEKAL.	PEKAL.	21.50	6.57	2.20	PEKAL.	72	20.37	6.50	2.10	70.00	47.00
53	HANOMAN	MUARIF	PEKAL.	PEKAL.	18.50	5.90	1.34	PEKAL.	N/A	N/A	N/A	N/A	N/A	N/A
54	ADI KUSUMA	TYO ING	PEKAL.	PEKAL.	17.30	5.05	1.20	PEKAL.	N/A	N/A	N/A	N/A	N/A	N/A
55	EKA SURYA	H.SLAMET M.	PEKAL.	PEKAL.	22.30	7.05	2.50	PEKAL.	145	20.70	7.00	2.30	94.00	56.00
56	SOYO AJI A	N/A	N/A	PEKAL.	19.40	5.85	1.62	PEKAL.	618	N/A	N/A	N/A	N/A	N/A
57	SINAR JAYA	N/A	N/A	PEKAL.	18.50	5.80	1.45	PEKAL.	736	N/A	N/A	N/A	N/A	N/A
58	CAHAYA HARAPAN II	OEMAR PURNOMO	PEKAL.	PEKAL.	18.60	5.90	1.55	PEKAL.	156	N/A	N/A	N/A	26.00	15.00
59	ADIMULYA	N/A	N/A	PEKAL.	19.00	5.66	1.55	PEKAL.	N/A	N/A	N/A	N/A	N/A	N/A
60	CAHAYA SAMUDRA	H.SLAMET M.	PEKAL.	PEKAL.	17.95	5.90	1.25	PEKAL.	1141	14.05	5.90	1.23	21.59	14.70
61	BINTANG TERANG	N/A	N/A	PEKAL.	19.35	3.95	1.25	PEKAL.	N/A	N/A	N/A	N/A	N/A	N/A
62	SIDO MUMBUL JAYA I	SUGIHARTO W.	PEKAL.	PEKAL.	22.55	6.90	2.40	PEKAL.	120	21.45	6.90	2.40	99.00	59.00
63	LARASATI JAYA	MASITOH	PEKAL.	PEKAL.	18.20	6.10	1.55	PEKAL.	1137	16.15	4.50	1.20	18.46	15.13
64	WIRA MUSTIKA	SUKARDI SURYA	PEKAL.	PEKAL.	20.30	4.50	1.25	PEKAL.	1152	16.70	4.40	1.10	17.14	12.89
65	CAKALANG II B	TAN ENG HONG	PEKAL.	PEKAL.	19.20	5.80	1.55	PEKAL.	93	15.25	4.35	1.00	14.00	N/A
66	SUMBER MAKMUR B	RATNA LISTIANI	PEKAL.	PEKAL.	17.50	5.70	1.45	PEKAL.	1139	14.80	5.45	1.20	20.49	14.51
67	KANUGRAHAN JAYA SAMUDRA	SUKARSONO	BEKASI	PEKAL.	24.20	7.40	2.20	PEKAL.	148	22.40	7.30	2.20	104.00	62.00
68	TEGUH HARAPAN B	RUDIHERMAN	PEKAL.	PEKAL.	17.80	5.70	1.55	PEKAL.	1119	15.50	5.70	1.35	25.26	18.66
69	BINATUR F	H.ANIMURTOPO	PEKAL.	PEKAL.	19.20	5.90	1.57	PEKAL.	1154	13.20	5.80	1.00	15.19	11.09
70	AMANAH	H.ANIMURTOPO	PEKAL.	PEKAL.	20.20	6.40	2.20	PEKAL.	N/A	N/A	N/A	N/A	N/A	N/A
71	BINTANG MAS WIJAYA	SUKENI	PEKAL.	PEKAL.	19.60	6.25	1.95	PEKAL.	1193	N/A	N/A	N/A	N/A	N/A
72	CENTRAL PRIMA	BUNTORO BUDIONO	PEKAL.	PEKAL.	25.30	7.06	2.30	PEKAL.	111	23.40	7.05	2.00	95.00	57.00
73	BINTANG MAS MAKMUR	ASMANDI	PEKAL.	PEKAL.	22.20	6.24	1.90	PEKAL.	13	20.80	6.80	1.85	67.00	N/A

NO	LKEEL m	PLANKS			VESSEL TYPE	PLACE BUILT	YEAR	NO HOLDS	FISH STATED CAPACITY (ton)	HOLDS CAPACITY MEASURED (cu.m)	ENGINE MAKE	NO. CYL	HP	GEAR BOX REDUC
		NO. BOTTOM	NO. BOTTOM	WIDTH cm										
50	13.5	N/A	N/A	24-30	MPI	PEKAL.	1988	4	7.6	N/A	MITSUBISHI	4	60	3 : 1
51	N/A	N/A	N/A	22-30	MPI	BATANG	1989	5	18.9	28.4	MITSUBISHI	4	80	3 : 1
52	17.5	N/A	N/A	24-35	MRO	BATANG	1991	12	37.8	56.3	ISUZU	6	145	3 : 1
53	15.5	N/A	N/A	24-30	MPI	BATANG	1988	7	16.2	15.0	MITSUBISHI	6	120	3 : 1
54	15.0	N/A	N/A	24-30	MPI	BATANG	N/A	6	10.3	25.2	YANMAR	3	56	3 : 1
55	N/A	N/A	N/A	24-35	MRO	BATANG	1992	12	54.0	76.7	HINO	6	280	3 : 1
56	16.0	N/A	N/A	24-35	MRO	BATANG	1990	10	20.7	30.4	MITSUBISHI	6	160	3 : 1
57	N/A	N/A	N/A	24-30	MPI	N/A	N/A	5	N/A	25.0	MITSUBISHI	6	160	3 : 1
58	16.0	N/A	N/A	27-45	MPI	PEKAL.	1989	10	N/A	29.5	MITSUBISHI	6	160	4 : 1
59	N/A	N/A	N/A	28-38	MPI	BATANG	1987	7	20.3	29.6	YANMAR	3	56	3 : 1
60	N/A	N/A	N/A	24-30	MPI	PEKAL.	1988	7	N/A	28.1	N/A	N/A	N/A	N/A
61	N/A	N/A	N/A	22-27	MSQ	N/A	N/A	8	10.8	18.4	N/A	N/A	N/A	N/A
62	19.0	N/A	N/A	24-27	MRO	PEKAL.	1992	10	43.2	74.3	ISUZU	6	240	3 : 1
63	15.0	N/A	N/A	24-30	MPI	BATANG	1989	10	16.2	29.6	YANMAR	3	56	3 : 1
64	N/A	N/A	N/A	22-27	MSQ	BSA	1989	4	12.2	21.6	YANMAR	3	56	3 : 1
65	N/A	N/A	N/A	24-35	MPI	BATANG	1990	8	17.6	27.0	MITSUBISHI	6	120	3 : 1
66	N/A	N/A	N/A	24-30	MPI	BATANG	1989	8	16.2	N/A	MITSUBISHI	4	80	3 : 1
67	N/A	N/A	N/A	20-27	MRO	PEKAL.	1992	12	48.6	72.3	NISSAN	10	340	4 : 1
68	N/A	N/A	N/A	22-30	MPI	PEKAL.	1988	8	16.2	30.6	YANMAR	3	33	2 : 1
69	15.0	N/A	N/A	24-30	MPI	BATANG	1989	10	N/A	32.4	N/A	N/A	N/A	N/A
70	N/A	N/A	N/A	24-30	MRO	N/A	1992	12	N/A	55.2	HINO	6	220	4 : 1
71	N/A	8	9	22-27	MPI	BSA	1989	8	22.5	34.0	MITSUBISHI	6	120	3 : 1
72	N/A	N/A	N/A	22-30	MRO	PEKAL.	1992	12	N/A	70.1	MITSUBISHI	6	160	4 : 1
73	N/A	N/A	N/A	24-35	MRO	BATANG	1990	10	35.0	N/A	MITSUBISHI	6	120	3 : 1

NO	MAKE	GEN. 1			GEN. 2				NO LAMPS	LAMP TYPE			RADIO	MAKE	TYPE	CHARTS	NO. PIECES NET	LENGTH NET	DEPTH NET	MESH WING inch	MESH BUNT inch
		MODEL	HP	KW	MAKE	MODEL	HP	KW		GALAXY wall	MERCURY wall	TOTAL WATTAGE wall									
50	YANMAR	TF105	10.5	5.0	0	0	0	0	12	1000	2500	3500	N	0	0	N	N/A	N/A	N/A	1.00	0.75
51	YANMAR	TF115	11.5	7.5	0	0	0	0	10	1000	2000	3000	Y	ICOM	725	N	N/A	N/A	N/A	1.00	0.75
52	KUBOTA	N/A	19.0	10.0	0	0	0	0	14	4700	0	4700	Y	ICOM	700	N	N/A	N/A	N/A	1.00	0.75
53	YANMAR	TF115	11.5	5.0	0	0	0	0	8	0	2000	2000	N	0	0	N	N/A	N/A	N/A	1.00	0.75
54	YANMAR	TF115	11.5	5.0	0	0	0	0	8	0	2000	2000	N	0	0	N	N/A	N/A	N/A	1.00	0.75
55	YANMAR	TF155	15.5	10.0	0	0	0	0	18	5500	0	5500	Y	ICOM	700	N	N/A	N/A	N/A	1.00	0.75
56	YANMAR	TF155	15.5	10.0	0	0	0	0	12	1500	2250	3750	Y	ICOM	725	N	N/A	N/A	N/A	1.00	0.75
57	DONGFENG	N/A	12.0	5.0	0	0	0	0	8	800	1500	2300	Y	ICOM	N/A	N	N/A	N/A	N/A	1.00	0.75
58	DONGFENG	N/A	12.0	6.0	0	0	0	0	12	1000	1900	2900	N	0	0	N	N/A	N/A	N/A	1.00	0.75
59	YANMAR	TF115	11.5	5.0	0	0	0	0	10	500	2000	2500	N	0	0	N	N/A	N/A	N/A	1.00	0.75
60	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	0	2000	2000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.00	0.75
61	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.00	0.75
62	YANMAR	TS190	19.0	10.0	0	0	0	0	12	4800	0	4800	Y	ICOM	700	N	N/A	N/A	N/A	1.00	0.75
63	KUBOTA	N/A	18.0	5.0	0	0	0	0	8	400	1750	2150	Y	ICOM	725	N	N/A	N/A	N/A	1.00	0.75
64	DONGFENG	N/A	12.5	5.0	0	0	0	0	10	250	2250	2500	N	0	0	N	N/A	N/A	N/A	1.00	0.75
65	YANMAR	TF115	11.5	5.0	0	0	0	0	8	800	1500	2300	Y	ICOM	700	N	N/A	N/A	N/A	1.00	0.75
66	DONGFENG	N/A	10.5	5.0	0	0	0	0	6	500	1250	1750	Y	ICOM	725	N	N/A	N/A	N/A	1.00	0.75
67	DONGFENG	N/A	25.0	12.5	0	0	0	0	16	4600	0	4600	Y	ICOM	725	N	N/A	N/A	N/A	1.00	0.75
68	DONGFENG	N/A	12.0	3.5	0	0	0	0	7	250	1500	1750	Y	YAETSU	FT180	N	N/A	N/A	N/A	1.00	0.75
69	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.00	0.75
70	mitsubishi	N/A	33.0	7.5	0	0	0	0	N/A	N/A	N/A	N/A	Y	ICOM	735	N	N/A	N/A	N/A	1.00	0.75
71	mitsubishi	4DR5	80.0	10.0	0	0	0	0	9	400	3200	3600	Y	ICOM	735	N	N/A	N/A	N/A	1.00	0.75
72	YANMAR	TS230	23.0	15.0	0	0	0	0	17	0	4700	4700	Y	ICOM	700	Y	N/A	N/A	N/A	1.00	0.75
73	mitsubishi	4DR5	80.0	10.0	0	0	0	0	14	2000	4200	6200	Y	ICOM	735	Y	N/A	N/A	N/A	1.00	0.75