

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

CFSTOM



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

**BIG PURSE SEINERS FISHERY
STATISTICAL COLLECTION
YEAR 1993**

By

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and

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- Pati : Mr. Ali Mulyono.
- Rembang : Mr. Koenarno

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- Pekalongan : Mr. Kisbadi.
- Batang : Mr. Bambang Irianto.
- Juwana : Mr. Soesiyanto

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- Tegal : Mr. Maali Effendi.
- Pekalongan : Mr. Sukardi.
- : Mr. Abdul Ngasis.
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- Juwana : Mr. Minggu
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PRESENTATION

This paper compiles all the statistical data of the year 1993 concerning the purse-seiners fishery which extends along the northern coast of the Java island (Fig. 1) in the Central Java Province. It is divided in three parts. The first one concerns the big seiners, the second the medium-size seiners and the third some references.

Collected in the main landing places of that province (Fig. 2) with the different administrations (T.P.I. Administrations, Fisheries services and Security Services), they are, then, processed and synthesized by the scientific team working on the project "Java Sea Pelagic Fishery Assessment project".

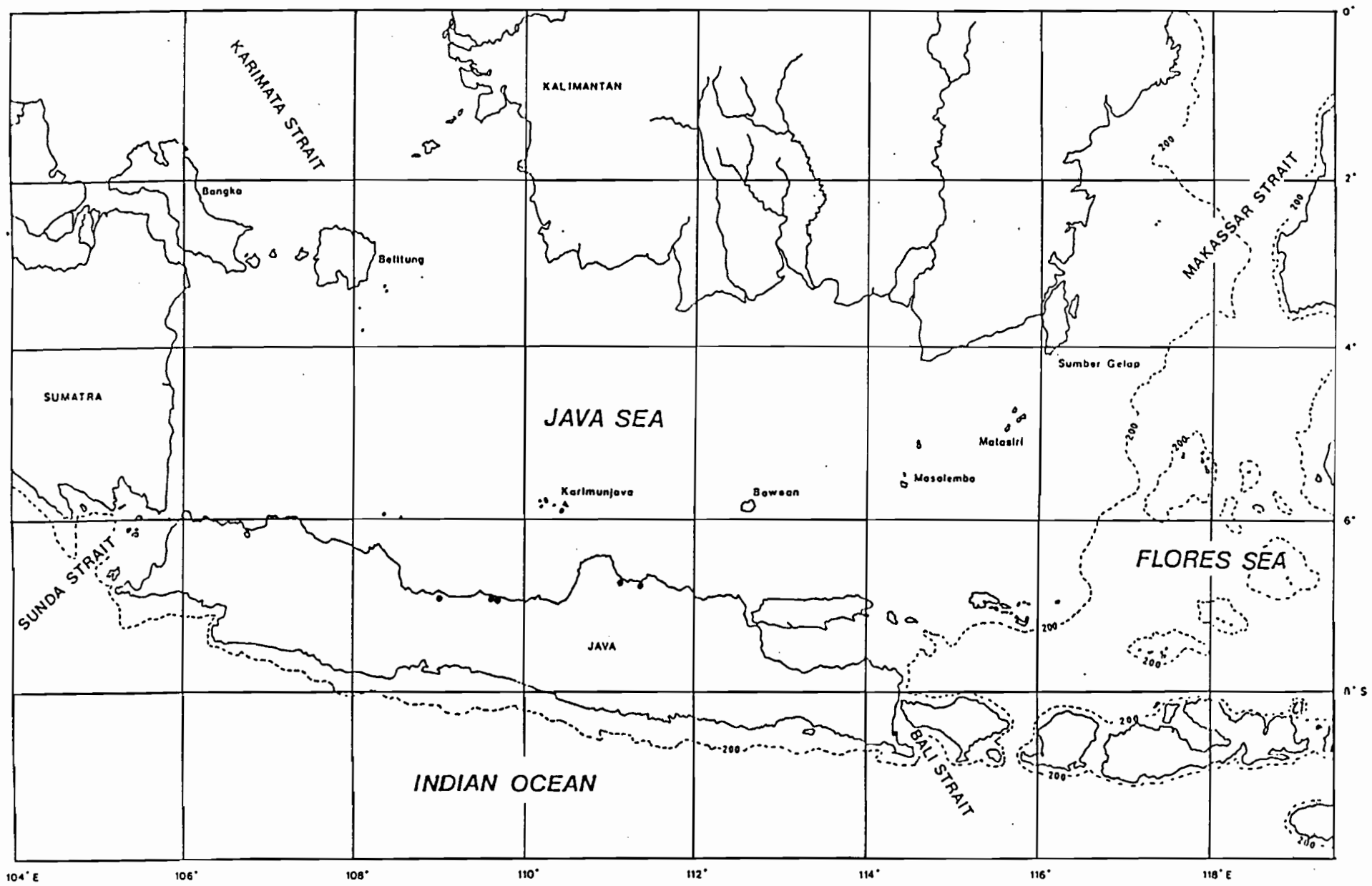


Fig.1 - Location of the Java Sea in the Indonesian Archipelago.

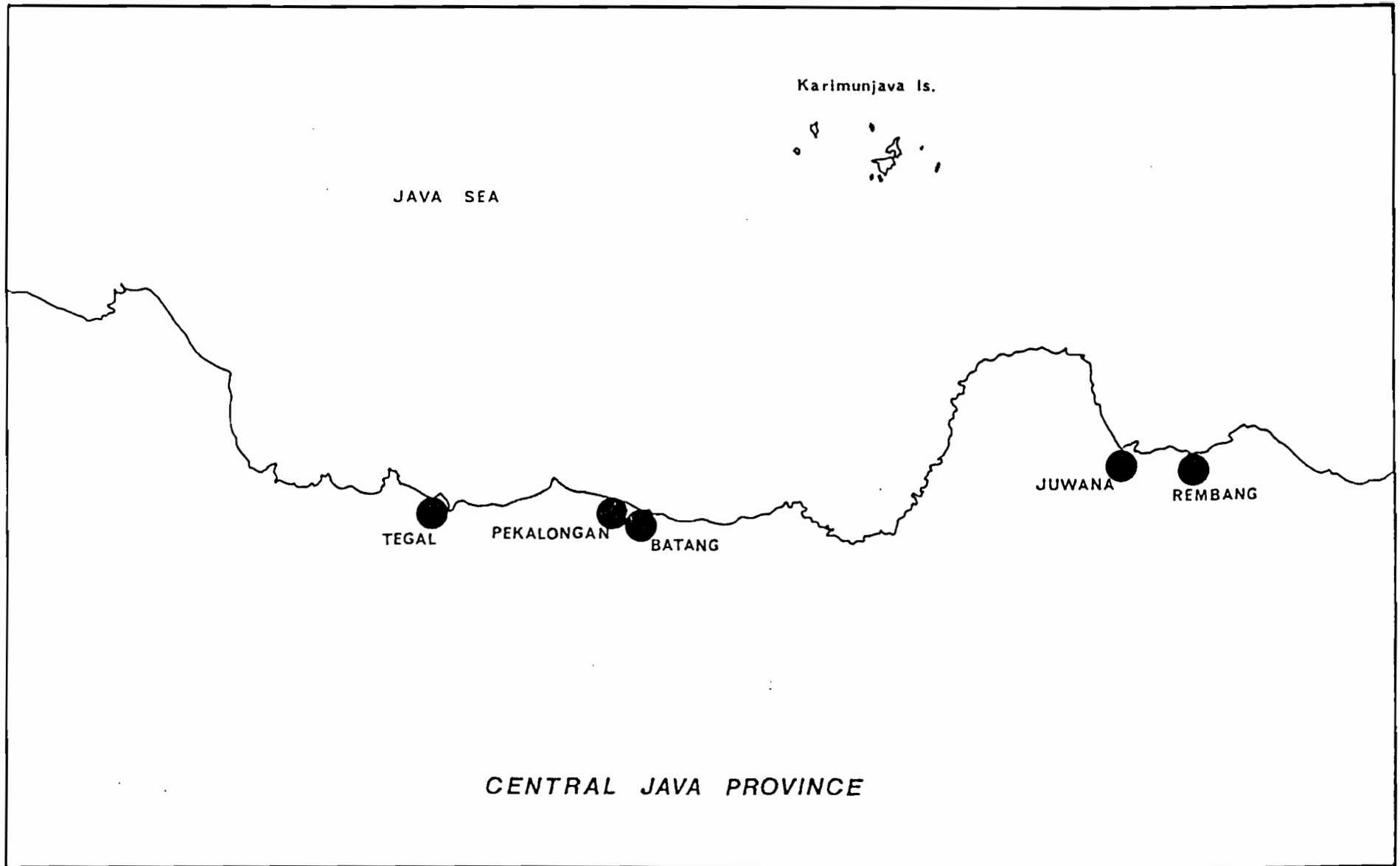


Fig. 2 - Location of the landing places used by the Javanese "big" purse seiners.

BIG PURSE SEINERS

BIG SEINERS

In this part the data are gathered per chapter which correspond to the main components of the fishery.

- I. The catches.
- II. The effort.
- III. The C.P.U.E. (Catch per unit effort)
- IV. The fleet.

THE CATCHES

The data are produced by main commercial category and by landing place where land the vessels. The values are expressed in tons.

- Annual catch by main commercial category in the Central Java Province. Big purse seiners. 1991.
- Monthly total catch in each harbour.
- Monthly catch of Layang (Decapterus spp.) in each harbour.
- Monthly catch of Banyar (Rastrelliger kanagurta) in each harbour.
- Monthly catch of Selar (Selar spp. and Selaroides leptolepis) in each harbour.
- Monthly catch of Bentong (Selar crumenophthalmus) in each harbour.
- Monthly catch of Tanjan (Sardinella gibbosa and Sardinella fimbriata) in each harbour.
- Monthly catch of Lemuru (Amblygaster sirm) in each harbour.

	Banyar	Bentong	Layang	Lemuru	Selar	Tanjan	Others	Total
1993	14569	5892	63048	15957	261	7684	11049	118460

Annual catch by main commercial category in the Central Java province. Big purse seiners. 1993.

	J	F	M	A	M	J	J	A	S	O	N	D	Total
Tegal	532	531	621	451	910	1155	1236	1290	1527	1705	2202	953	13113
Pekalongan	3621	3386	3298	2728	5471	4762	5219	4844	6981	7052	7653	5783	60798
Juwana	3448	813	1783	606	1946	2067	3316	3922	4919	6195	6235	5586	40836
Rembang	34	54	73		21		171		1185	868	1016	297	3719
Total	7635	4784	5775	3785	8348	7984	9942	10056	14612	15820	17106	12619	118466

Monthly total catch in each harbour. Tons.

	J	F	M	A	M	J	J	A	S	O	N	D	Total
Tegal	89	128	185	206	680	774	593	834	1074	578	978	379	6498
Pekalongan	874	705	1142	1196	3507	2882	2737	2634	4869	4545	4386	2430	31907
Juwana	705	181	503	281	1373	948	1637	2495	3327	4290	3816	2762	22318
Rembang	3	6	23		4		96		774	643	638	138	2325
Total	1671	1020	1853	1683	5564	4604	5063	5963	10044	10056	9818	5709	63048

Monthly catch of layang (Decapterus russelli, Decapterus macrosoma) in each harbour. Tons.

	J	F	M	A	M	J	J	A	S	O	N	D	Total
Tegal	106	89	134	55	39	42	40	82	96	347	363	127	1520
Pekalongan	570	636	513	329	372	429	740	567	727	1100	926	570	7479
Juwana	483	144	275	85	107	323	290	406	552	874	861	652	5052
Rembang	1	2	9		7		16		214	133	114	22	518
Total	1160	871	931	469	525	794	1086	1055	1589	2454	2264	1371	14569

Monthly landings of Banyar (Rastrelliger kanagurta) in each harbour. Tons.

	J	F	M	A	M	J	J	A	S	O	N	D	Total
Tegal	56	52	119	57	54	74	157	103	43	38	35	17	805
Pekalongan	344	346	679	334	435	357	413	301	115	51	80	109	3564
Juwana	257	70	304	60	178	112	121	121	19	43	74	94	1453
Rembang	1	1	13		7		7		6	4	23	8	70
Total	658	469	1115	451	674	543	698	525	183	136	212	228	5892

Monthly catch of bentong (Selar crumenophthalmus) in each harbour. Tons.

	J	F	M	A	M	J	J	A	S	O	N	D	Total
Tegal	2	3	3	11	3	3	2	3	1	2	1	1	35
Pekalongan	10	18	16	64	24	15	6	9	2	3	3	3	173
Juwana	3	4	6	5	6	1	1					3	29
Rembang	1	1	1				1		12	1	7		24
Total	16	26	26	80	33	19	10	12	15	6	11	7	261

Monthly catch of Selar (Selar spp., Selaroides leptolepis) in each harbour. Tons.

	J	F	M	A	M	J	J	A	S	O	N	D	Total
Tegal	20	25	37	34	59	104	216	79	102	221	245	132	1274
Pekalongan	122	168	210	201	479	505	569	232	269	296	565	860	4476
Juwana	204	72	116	23	69	347	109	30	44	150	274	378	1816
Rembang	1		2				4		32	12	51	16	118
Total	347	265	365	258	607	956	898	341	447	679	1135	1386	7684

Monthly catch of Tanjan (Sardinella gibbosa, Sardinella fimbriata) in each harbour. Tons.

	J	F	M	A	M	J	J	A	S	O	N	D	Total
Tegal	245	201	105	75	32	11	66	103	120	409	452	235	2054
Pekalongan	1507	1336	601	439	256	53	174	303	319	546	1043	1536	8113
Juwana	1541	279	476	110	61	13	289	171	204	294	785	1178	5401
Rembang	26	43	21				25		69	29	117	59	389
Total	3319	1859	1203	624	349	77	554	577	712	1278	2397	3008	15957

Monthly catch of Lemuru (Amblygaster sirm) in each harbour.

	J	F	M	A	M	J	J	A	S	O	N	D	Total
Tegal	8	17	5	5	22	75	71	34	40	56	52	18	403
Pekalongan	53	47	19	82	202	275	177	207	159	298	291	123	1933
Juwana	35	5	9	4	66	119	45	195	80	159	130	79	926
Rembang							7		61	29	57	8	162
Total	96	69	33	91	290	469	300	436	340	542	530	228	3424

Monthly catch of Tongkol (Auxis spp., Euthynnus affinis) in each harbour.

THE EFFORT

The data are expressed per landing place according to the best definitions of that value for this fishery : number of trips and days at sea.

- Monthly effort, expressed in number of trips for each harbour.
- Monthly effort, expressed in days at sea for each harbour.
- Monthly mean number of days at sea by trip for each harbour.

	J	F	M	A	M	J	J	A	S	O	N	D	Total
Tegal	11	21	23	10	24	21	23	26	31	35	34	19	278
Pekalongan	114	148	154	120	180	148	170	145	166	160	150	125	1780
Juwana	83	31	68	16	55	51	74	103	104	112	119	111	927
Rembang	1	4	5		1		5		26	22	21	7	92
Total	209	204	250	146	260	220	272	274	327	329	324	262	3077

Monthly effort : Number of trips in each harbour.

	J	F	M	A	M	J	J	A	S	O	N	D	Total
Tegal	383	851	922	374	933	709	704	779	1041	1049	1040	602	9387
Pekalongan	2962	4879	3769	3096	5371	4294	4827	3549	4110	3195	2750	2760	45562
Juwana	1928	904	1947	530	1675	1530	1868	2338	1630	1441	1588	1863	19242
Rembang	15	60	51		25		71		571	539	680	217	2229
Total	5288	6694	6689	4000	8004	6533	7470	6666	7352	6224	6058	5442	76420

Monthly effort : Days at sea in each harbour.

	J	F	M	A	M	J	J	A	S	O	N	D
Tegal	35	41	40	37	39	34	31	30	34	30	31	32
Pekalongan	26	33	24	26	30	29	28	25	25	20	18	22
Juwana	23	29	29	33	31	30	25	23	16	13	13	17
Rembang	15	15	10		25		14		23	24	31	31

Monthly mean number of days at sea in each harbour.

THE C.P.U.E.

This part includes only one table :

- Monthly Catch Per Unit Effort (C.P.U.E.) of the "big" purse seiners for each landing place. (Kg/Day at sea).

	J	F	M	A	M	J	J	A	S	O	N	D	Total
Tegal	1389	624	674	1206	975	1629	1756	1656	1467	1625	2117	1583	1397
Pekalongan	1222	694	875	881	1019	1109	1081	1365	1699	2207	2783	2095	1334
Juwana	1788	899	916	1143	1162	1351	1775	1678	3018	4299	3926	2998	2122
Rembang	2267	900	1431		840		2408		2075	1610	1494	1369	1668
Total	1444	715	863	946	1043	1222	1331	1509	1987	2542	2824	2319	1550

Monthly C.P.U.E. (Catch Per Unit of Effort) of the big purse seiners in every harbour. (Kgs/Day at sea).

THE FLEET

----- Structure and activity -----

This part is divided in three sub-chapters.

- The first one presents per place of registration the main characteristics (horse power, gross tonnage year of shipbuilding) of the "big" purse seiners.

- The second one presents per place of registration the monthly number of trips and the number of months in activity for each purse seiner.

- The third one gathers five tables which respectively present :

places - Number of vessels registered in the different landing and which achieved at least one trip during the year.

harbour. - Monthly number of purse seiners working in each

harbour. - Monthly number of purse seiners landing in each

of its registration. - Monthly number of purse seiners landing in the harbour

harbour where it is not registered. - Monthly number of purse seiners which land in an

Vessel name	HP	GT	YE	Vessel name	HP	GT	YE	Vessel name	HP	GT	YE
Ariel	240	35.0	92	Jasa mina baru	160	31.3	86	Perintis jaya makmur	120	31.3	85
Berlian jaya	160	35.1	85	Karunia jaya	160	33.1	87	Puncak harapan	160	31.3	87
Bintang anugerah	160	31.4	86	Lukito jaya	240	34.0	91	Sari laut	160	34.5	86
Bintang berlian	160	31.4	91	Maju jaya	160	34.6	87	Sejahtera makmur	160	28.5	85
Bintang fajar	160	34.7	82	Makmur abadi	160	31.7	85	Sinar samodra	200	35.1	93
Bintang kumiawan	160	32.4	87	Mandoliko	160	31.5	87	Sri agung	160	31.5	91
Bintang pumama A	265	61.6	93	Mandoyo	160	32.0	82	Sumber abadi	160	33.7	87
Bintang samodra	160	30.6	86	Merpati	240	35.0	92	Sumber makmur	160	34.0	85
Dharma samodra	320	60.4	93	Mina harapan A	160	33.5	85	Sumber samodra	240	35.0	92
Dunia aji	160	35.2	86	Mina harapan B	160	34.5	86	Susanto	120	27.8	80
Eben haezer	160	31.2	86	Miridian jaya	350	30.7	92	Talita kummi	160	31.5	90
Gema jaya	160	34.2	86	Mutiara abadi	160	31.3	90	Teguh harapan jaya	160	31.4	88
Halindo jaya	160	31.5	88	Naga mas	160	32.9	87	Teguh jaya	160	34.5	85
Harapan baru	160	33.8	90	Pelangi	160	34.8	85	Teguh perkasa	240	35.0	91
Harapan jaya	160	31.5	89	Perintis abadi	250	52.4	93				

** : No data.

HP : Horse power. GT : Gross tonnage YE : Year of shipbuilding

Characteristics of the purse seiners registered in Tegal. N=44.

Vessel name	HP	GT	YE	Vessel name	HP	GT	YE	Vessel name	HP	GT	YE
Abimanju	200	31.6	86	Haiteri baru	160	30.8	85	Murni sari	160	89.8	81
Assaudah baru 1	100	28.1	79	Hak nusantara indah	160	31.6	85				
Berkah utama	160	31.5	85	Indah lestari	110	31.3	84				

** : No data.

HP : Horse power. GT : Gross tonnage. YE : Year of shipbuilding.

Characteristics of the purse seiners registered in Batang. N=7

Vessel name	HP	GT	YE	Vessel name	HP	GT	YE	Vessel name	HP	GT	YE
Jawa indah	280	123.0	92	Satria perkasa	120	64.0	86	Sinar mutiara	160	42.0	86
Satria baru	120	28.0	77	Satria sakti	120	30.0	85				

** : No data.

HP : Horse power. GT : Gross tonnage. YE : Year of shipbuilding.

Characteristics of the purse seiners registered in Rembang. N=5

Vessel name	HP	GT	YE	Vessel name	HP	GT	YE	Vessel name	HP	GT	YE
A. Podo Rukun	160	31.1	85	Jasa mina agung	350	102.0	93	Putra samodra	160	34.1	84
Agus santoso	300	99.0	86	Jawa indah	160	31.7	87	Putra wijaya	120	26.7	79
Along jaya abadi	160	31.2	85	Jayakarta	160	31.6	86	Ramayana	160	31.3	85
Andalas	160	31.6	85	Jaya wijaya	160	31.3	87	Rejeki terang	350	95	93
Anggoro kasih	160	31.1	85	Jitu utama	160	31.8	85	Remaja 1	160	32.2	85
Anta wibawa	160	33.3	83	Kalimas 1	120	28.6	80	Remaja abadi	160	31.0	84
Anugerah jaya	160	**	89	Kalimas indah A	160	31.4	83	Remaja makmur	160	33.4	83
Anugerah makmur	240	30.0	92	Kartika sena	350	108.0	93	Rukun utama	120	28.6	79
Apel indah	160	31.2	89	Karya samudra 1	160	31.2	86	Samodra adiguna 2	160	63.6	86
Apel putih A.	160	31.3	84	Kasih abadi	300	37.1	92	Samodra hindia	160	31.5	87
Apel unggul	350	32.5	92	Kasih jaya makmur	350	32.5	92	Samodra indonesia	300	98.0	93
Arabika	160	31.3	85	Kasih makmur	350	33.2	92	Samodra luas	120	31.4	86
Aries	140	78.0	93	Kasih setia	350	102.0	93	Samodra pasifik	160	31.5	87
Armada jaya 2	160	31.6	84	Ketapang jaya 3	160	**	90	Sampurna abadi	240	35.6	92
Bahtera kasih	160	31.0	84	Laksamana	160	31.3	84	Sampurna baru	160	32.0	87
Banyu urip 1	160	30.9	84	Laksana berkah	160	26.2	84	Sampurna jaya	160	34.7	90
Banyu urip A	160	31.8	85	Laksana berkah B	160	30.1	87	Sari lancar	160	31.1	85
Banyu urip makmur	300	30.0	92	Laksana jaya	160	29.8	85	Sari rejeki	160	31.3	87
Berhasil 1	160	31.1	85	Langgeng jaya	160	35.1	81	Sari utama	350	119	93
Berhasil 2	160	31.7	85	Langsung jaya	160	31.8	84	Saturnus	240	39.5	91
Beringin jaya 1	160	33.1	83	Langsung jaya A	160	31.1	85	Sejahtera bahagia	160	28.4	79
Beringin jaya 2	160	33.9	84	Langsung jaya abadi	160	31.8	87	Sekawan indah	160	31.7	85
Beringin jaya 3	160	34.2	84	Langsung jaya agung	240	35.3	92	Sempati makmur	300	94.0	91
Beringin jaya 4	160	30.8	84	Langsung jaya B	160	31.1	86	Senyum harapan	120	31.2	84
Beringin jaya 5	160	31.8	84	Langsung jaya bahagia	300	125.0	93	Senyum makmur	160	31.6	86
Beringin jaya 6	160	31.9	84	Langsung jaya indah	240	107.0	93	Setia maju	160	31.2	86
Beringin jaya 7	160	31.6	85	Langsung jaya makmur	240	30.4	92	Setia wijaya	**	**	**
Beringin jaya 8	160	31.3	86	Langsung jaya sentosa	240	37.7	91	Sinar asia	350	122.0	93
Bhineka	160	31.2	84	Maha putra	160	32.5	85	Sinar jaya A	160	31.4	86
Bima sakti A	160	31.3	86	Makin subur	160	31.6	86	Sinar makmur	160	31.9	85
Bima sakti D	160	31.1	86	Mars	300	33.9	92	Sinar manunggal abadi	160	31.4	88
Bintang abadi	160	31.6	86	Megah abadi	160	31.5	86	Sinar perdana	160	32.4	85
Bintang bahari	160	31.5	86	Megah ceria	160	32.1	92	Sinar rejeki	350	100.0	93
Bintang kasih	280	28.6	92	Megah harapan	160	31.6	85	Sinar sakti	350	115.0	93
Bintang kasih makmur	350	117.0	93	Megah indah	160	31.3	87	Sinar samodra 1	160	31.4	85
Bintang makmur	160	31.2	86	Megah jaya	160	31.3	86	Sinar samudra jaya	350	33.9	92
Bintang mas	160	31.5	87	Megah perkasa	300	93.0	93	Sinar surya	240	36.0	91
Bintang mas jaya	240	33.5	92	Megah raya	120	27.2	79	Slamet agung	160	31.6	85
Bintang mas saputra	300	31.4	92	Megah sejati	180	24.7	91	Soyo abadi	160	31.5	87
Bintang mustika	160	31.3	85	Mekar gloria makmur	160	31.4	84	Soyo agung	160	31.5	85
Bintang nelayan	160	31.7	87	Mekar wijaya	160	31.4	86	Soyo agung 2	160	31.3	85
Bintang pasifik	160	31.6	86	Mina abadi	280	31.3	88	Soyo agung 3	160	31.5	86
Bintang perdana	160	31.5	87	Mina baruna	160	31.2	85	Sri kandi	160	31.2	84
Bintang prima	160	31.1	85	Mina baruna I	350	92.0	93	Sri ratu	300	122.0	93
Bintang remaja	160	32.3	84	Mina harapan	160	31.2	78	Sri rejeki baru	**	**	**
Bintang slamet	160	31.3	85	Mina haslindo	280	32.2	92	Sri surya	100	31.1	84
Bintang timur	160	28.6	79	Mina indah	160	32.2	87	Sugih waras I	300	33.5	92

** : No data.

HP : Horse power. GT : Gross tonnage. YE : Year of shipbuilding.

Characteristics of the purse seiners registered in Pekalongan. N=274.

Vessel name	HP	GT	YE	Vessel name	HP	GT	YE	Vessel name	HP	GT	YE
Bintang united	160	31.5	87	Mina jaya 1	160	25.1	85	Sukses	160	31.3	85
Bintang wijaya	160	32.5	87	Mina karya	160	30.5	84	Sukses bahagia	160	31.1	82
Cakra buana jaya	240	33.5	92	Mina makmur	160	31.6	83	Sumber daya makmur	160	31.5	86
Cakra utama jaya	350	96.0	93	Mina mastama	160	31.3	86	Sumber harapan	160	28.4	85
Caraka	160	32.9	86	Mina samodra	160	31.5	85	Sumber manggis 1	120	31.4	85
Caraka jaya	**	**	**	Mios indah	300	35.3	92	Sumber terang	160	31.6	86
Catur manunggal perkasa	350	112.0	93	Mitra perkasa	240	33.9	92	Sumber urip abadi	160	26.8	86
Charly bumi raya	160	31.3	86	Mitra prima	240	36.7	91	Sunarso makmur	300	33.2	92
Charly haslindo utama	350	110.0	93	Mitra sejati	240	33.5	91	Surya agung	300	32.8	92
Charly megah utama	300	31.4	92	Muda hasil	160	31.3	86	Surya makmur	160	33.8	84
Charly mina jaya	160	32.3	85	Multi andalan	160	34.4	87	Surya wijaya	160	31.0	85
Charly pelita utama	160	93.0	93	Mustika sejati	160	29.7	86	Susanto I	160	32.5	88
Charly tirta jaya	160	31.5	85	Mutiara indah	160	31.1	87	Susanto indah	240	34.9	91
Charly wijaya 1	160	33.5	84	Naga mas	160	31.2	83	Syailendra	160	33.8	84
Cipta wijaya	350	99.0	93	Neptunus	160	32.8	89	Tambah berkah	160	31.0	85
Citra haslindo	350	105.0	93	Nusantara I	300	30.7	92	Teguh haslindo	350	113.0	93
Citra mustika	160	33.1	86	Pandu 1	120	28.0	80	Teguh makmur	160	31.6	88
Citra samodra	160	32.5	85	Paringi jaya	160	31.1	86	Teguh prima sempurna	300	39.2	92
Columbus	240	69.0	93	Patriot	240	35.3	91	Teguh sejati	240	33.3	89
Coyo indah	350	107.0	93	Pekalongan indah	160	31.3	86	Tirta abadi	160	31.4	85
Cytius	350	37.8	92	Pelita abadi	240	31.4	92	Tirta katulistiwa farming	160	31.3	87
Daya bintang timur	160	31.5	87	Pelita jaya	160	31.7	87	Tirta makmur	160	33.9	83
Dwi manunggal jaya	160	33.9	84	Pelita makmur	160	34.9	90	Tongkat muda	350	96.0	93
Eka wijaya	350	107.0	93	Pelita perkasa	300	34.9	92	Tri jaya	300	33.2	92
Fortius	240	110.0	93	Pelita sejati	160	31.3	88	Tri jaya terang	160	33.2	85
Gabungan jaya abadi	160	31.1	85	Pelita sentosa	160	30.0	92	Tri mina jaya	160	30.3	85
Gabungan jaya bahagia	300	93.0	93	Pelopor maju	160	32.3	85	Trimurti	160	31.4	86
Gabungan jaya makmur	180	36.7	91	Perintis jakarta	350	109.0	93	Tri sejati	160	31.2	88
Gabungan jaya lestari	300	34.9	92	Perintis perkasa	180	31.7	87	Tujuh-Tujuh	160	31.4	85
Gabungan jaya raya	350	92.0	93	Perintis sejahtera	160	33.7	83	Tunas harapan	120	31.3	85
Gabungan jaya sentosa	240	33.9	92	Pertiwi	160	31.2	83	Udayana	160	31.3	86
Garuda indah	180	33.2	92	Pisces	240	32.8	92	Unggul abadi	350	24.7	92
Garuda jaya	160	32.1	87	Prima abadi	240	39.9	91	Unggul prima	300	35.3	92
Garuda jaya abadi	160	33.9	84	Prima jaya abadi	240	31.8	91	Union abadi	160	31.7	88
Garuda mas	180	34.6	91	Prima makmur	300	34.5	90	Union harapan	160	31.6	87
Gemini	350	105.0	93	Prima megah utama	300	101.0	93	Union jaya	160	33.1	86
Haitri jaya A	160	31.7	86	Profit	160	31.2	85	Union jaya abadi	160	31.4	87
Harapan mustika	160	31.1	86	Prosper	160	33.1	89	Union makmur	160	32.8	88
Haryanto I	160	31.3	87	Pumama	350	33.9	92	Venus	160	31.2	86
Holy jaya	160	31.3	83	Pustaka abadi	160	31.3	84	Victorie	160	29.3	92
Horison	160	27.5	79	Putra bungsu	160	31.1	88	Victori abadi	240	107.0	93
Indah harapan	160	34.7	85	Putra harapan	160	31.2	85	Wira buana	160	31.6	86
Indah makmur	160	34.6	91	Putra manunggal jaya	160	31.7	85	Yupiter	160	31.2	85
Indah wijaya	160	31.1	86	Putra manunggal makmur	160	31.4	86				
Irwan I	160	29.8	87	Putra remaja baru	160	21.1	85				

** : No data.

HP : Horse power. GT : Gross tonage. YE : Year of shipbuilding.

Characteristics of the purse seiners registered in Pekalongan. N=274.

Vessel name	HP	GT	YE	Vessel name	HP	GT	YE	Vessel name	HP	GT	YE
Along jaya	160	34.4	85	Margo makmur	320	33.5	84	Putra manggala sakti	300	127.0	93
Bahtera jaya	220	44.1	92	Margo mukti	150	32.7	86	Putra manunggal sakti	**	**	**
Bahtera makmur	350	145.0	93	Margo mulyo	150	32.6	85	Putra mekar sejati	280	111.0	92
Bahtera sentosa	250	144.0	93	Margo rahayu	320	34.1	84	Putra nusantara sakti	350	129.0	93
Bima samodra	100	33.5	80	Margo rejeki	350	41.3	92	Putra sulung	160	31.1	86
Gondo mino	160	31.2	83	Margo sejati	320	34.0	89	Putra utama sakti	220	42.3	92
Harapan nyata	160	31.0	91	Margo sentosa	320	31.1	87	Sarono mino 1	160	31.8	87
Jaya sentosa	160	31.6	75	Margo wibowo	270	45.1	92	Sarono mino 2	280	125.0	91
Kartika sakti	160	31.7	81	Mekar wijaya makmur	160	31.9	84	Seruni sari	160	31.2	84
Kintamani	160	31.4	86	Mercurius	180	33.5	91	Teguh harapan	160	31.4	88
Makin maju	160	32.1	85	Mina raya	250	**	87	Topaz	270	40.9	92
Makmur sentosa	320	31.1	92	Mustika sakti	160	31.1	81	Tunas sejati	240	113.0	92
Margo agung	350	129.0	93	Mutiara sakti	280	42.7	92	Tunas wibawa	160	21.2	78
Margo birowo	370	138.0	92	Pelangi indah	240	116.0	93	Union	240	53.6	91
Margo jaya	220	31.6	79	Pelangi kasih	160	31.3	86	Uranus	160	34.9	87
Margo lestari	320	35.2	88	Perwira sakti	160	32.0	85	Wijaya sakti	160	32.1	83

** : No data.

HP : Horse power. GT : Gross tonage. YE : Year of shipbuilding.

Characteristics of the purse seiners registered in Juwana. N=48.

Characteristics	HP	GT	Age
Tegal	181	35.0	6
Pekalongan	200	42.0	6
Batang	150	39.0	10
Juwana	228	58.0	6
Rembang	160	57.0	9

* No Data.

Main characteristics of the large seiners per port of registration in 1993.

	D	S	N	B	x
Tegal	9		6	3	0
Pekalongan	19	6	42	2	19
Batang	6				-6
Juwana	4		8	3	7
Rembang			1		1
Total fleet	38	6	57	8	21

D: Disappear S: Sold N: New B: Bought

Evolution of the flotilla in each harbour during 1993.

Vessel name	Month	01	02	03	04	05	06	07	08	09	10	11	12	To	Na
Ariel		1		1		1		1	1	1		1		7	7
Berlian jaya			1											1	1
Bintang anugrah				1		1		1	2	1		2	1	9	7
Bintang berlian			1	1		1	1		1		1	1		7	7
Bintang fajar			1		1			1		1		1		5	5
Bintang kumiawan		1			1	1	1	1		1	1		1	8	8
Bintang pumama							1		2		1	1		5	4
Bintang samudra				1		1	1	1		1	1	1		7	7
Dharma samodra											1	1	1	3	3
Dunia aji			1			1		1	1		1			5	5
Eben haezer				1		1		1		1	1	1		6	6
Gemah jaya		1												1	1
Halindo jaya			1		1		1	1		1	1		1	7	7
Harapan baru				1										1	1
Harapan jaya				1				1	1	1	1			5	5
Jasa mina baru							1							1	1
Karunia jaya			1		1									2	2
Lukito jaya				1		2		1	1	1	1	1		8	7
Maju jaya			1				1	1						3	3
Makmur abadi			1			1	1		1	1	1	1	1	8	8
Mandoliko			1	1										2	2
Mandoyo			1	1										2	2
Merpati		1		1	1		1	1	1	1	1	1	1	10	10
Mina harapan A		1		1		1	1		1	1		1		7	7
Mina harapan B			1		1		1		1	1		1		6	6
Miridian jaya			1		1		1		1		2	1		7	6
Mutiara abadi			1			1		1	1	1	1	1		7	7
Naga mas		1		1		1		1		1	1			6	6
Pelangi			1		1		1	1		1	1		1	7	7
Perintis abadi						1	1		1	1	1		1	6	6
Perintis jaya makmur			1	1		1		1	1	1		1	1	8	8
Puncak harapan			1	1		1	1		1	1	1	1	1	9	9
Sari laut				1		1	1		1	1		1		6	6
Sejahtera makmur		1		1		1		1		1		1		6	6
Sinar samodra		1	1		1		1		1	1	1		1	8	8
Sri agung											1	1		2	2
Sumber abadi		1	1	1		1		1		1	1	1	1	9	9
Sumber makmur											1			1	1
Sumber samodra			1		1		1		1		1	1	1	7	7
Susanto			1	1		1		1	1	1	1		1	8	8
Talita kummi				1		1		1	1		1		1	6	6
Teguh harapan jaya		1		1	1				1		1	1	1	7	7
Teguh jaya		1		2		1	1	1	1		2	1	1	11	9
Teguh perkasa		1			1		1	1		1		1	1	7	7

Na : Number of month in activity. To : Number of trips.

Monthly number of trips per vessel registered in Tegal harbour.

Vessel name	Month	01	02	03	04	05	06	07	08	09	10	11	12	To	Na
A. Podo Rukun		1		1		1	1	1	1	2	1	1	1	11	10
Agus santoso						1								1	1
Along jaya abadi			1	1		1	1	1		1	2	1		9	8
Andalas			1	1		1	1	1		2	1	1		9	8
Anggoro kasih			1	1	1	1	1	1	1	1	1	1	1	11	11
Anta wibawa		1	2	1	1	2	1	1	2	1	2	1	1	16	12
Anugerah jaya		1		1	1	1		1	1	1	1	1	1	10	10
Anugerah makmur		1		1		1	1	1		1	1	1	1	9	9
Apel indah		1	1	1	1	1	1	2	1	1	1	1		12	11
Apel putih A.			1	1	1	1	1	1		1		1	1	9	9
Apel unggul		1	1		1		1	1	1	1		2	1	10	9
Arabika			1	1		1		1	1	1	1	1	1	9	9
Aries													1	1	1
Armada jaya 2		1		1	1	1	1	2			1	1	1	10	9
Bahtera kasih		1	2	1	1	1	1	1	1	1	2	1	1	14	12
Banyu urip 1			1	1	1	1		1	1	1	1	1	1	10	10
Banyu urip A			1	1			1	1		2	1		1	8	7
Banyu urip makmur			2	1		1	1		1	1	1	1	1	10	9
Berhasil 1		1	1	1	1	1		1	1	2	1	1		11	10
Berhasil 2		1	1		1		1	1	1	1	1	1		9	9
Beringin jaya 1			1					1	1	2	1	1	1	8	7
Beringin jaya 2		1	1			1	1	1	1		2	1	1	10	9
Beringin jaya 3		1	1	1		1		1	2		1		1	9	8
Beringin jaya 4			1	1		1		1	1					5	5
Beringin jaya 5		1			1	1		2	1	1	1	1	1	10	9
Beringin jaya 6		1	1		1	1		1	1	1	1	2	1	11	10
Beringin jaya 7		1				1	1	1	1	1	1	1	1	9	9
Beringin jaya 8		1	1	1		1		1		1	1	1	2	10	9
Bhineka		2		1	1	1	1	1	1	2	1	2		13	10
Bima sakti A			1	1	1			1	1	1	1	1		8	8
Bima sakti D			1	1				1			1	1		5	5
Bintang abadi		1	1	1	1	2	1	1	1	1	1	1		12	11
Bintang bahari		1	1											2	2
Bintang kasih		1	1		1	1		1	1	1	1	1	1	10	10
Bintang kasih makmur									1	2		1	1	5	4
Bintang makmur			1		1	1	1		1	1	1	1	1	9	9
Bintang mas			1	1		1	1	1		1	1	1	1	9	9
Bintang mas jaya		1		1		1	1	1		1	1	1		8	8
Bintang mas saputra			1	1	1		1	1		1		1	1	8	8
Bintang mustika		1				1	1	1	1		1	1	1	8	8
Bintang nelayan		1	1		1	1		1	1	1	1	1	1	10	10
Bintang pasifik			1	1		1	1			1				5	5
Bintang perdana			1	1		1		1	1	1			1	7	7
Bintang prima		1			1	1		1	1	1	1	1	1	9	9
Bintang remaja		1		2	1		1	1	1		1	1	1	10	9
Bintang slamet			1	1		1	1	1	1	1	1	1	1	10	10
Bintang timur		1	2	1	1	2	2	1	2	1	2	2	1	18	12
Bintang united			1	1		1	1	1		1	1	1	1	9	9
Bintang wijaya		1				1	1		1	1	1	1	1	8	8
Cakra buana jaya			1	1		1		1		1	1	1		7	7

Na : Number of month in activity. To : Number of trips.

Monthly number of trips per vessel registered in Pekalongan harbour.

Vessel name	Month	01	02	03	04	05	06	07	08	09	10	11	12	To	Na
Cakra utama jaya						1	1	1	1	1	1	1	1	8	8
Caraka		1		1		1	1	1		2	1	1	1	10	9
Caraka jaya													1	1	1
Catur manunggal perkasa						1	1		1	1	1	1		6	6
Charly bumi raya		1		1	1		1	1	1	1		1	1	9	9
Charly effendi jaya		1	1		1	1		2		1	1	1	1	10	9
Charly haslindo utama												1	1	2	2
Charly megah utama			1	1		1		1	1	1	1	1	1	9	9
Charly mina jaya		1		1	1	1	1	1	1	1	2	1	1	12	11
Charly pelita utama										2	2	1	1	6	4
Charly tirta jaya		1			1	1		1	1	1	1	1	1	9	9
Charly wijaya 1		1	1		1		1	1	2	1	1	1	1	11	10
Cipta wijaya			1	1		1	1	1		1	1	1	1	9	9
Citra haslindo				1	1		1	1		1	1	1		7	7
Citra mustika		1	1		1	1		1	1	1		1		8	8
Citra samodra			1		1	1	1	1	1	1	1	1		9	9
Colombus							1	1	1					3	3
Coyo indah					1		1							2	2
Cytius		1	1		1		1		1	1	1	1	1	9	9
Daya bintang timur			1	1		1	1		1	1	1	1	1	9	9
Dwi manunggal jaya		1		1		1	1	1		2	1	1	1	10	9
Eka wijaya													1	1	1
Fortius													1	1	1
Gabungan jaya abadi		1	1	2		1		1	1	1	1	2	1	12	10
Gabungan jaya bahagia			1		1		1	1		1	1	1	1	8	8
Gabungan jaya lestari			1	1		1	1		1	1	1	1	1	9	9
Gabungan jaya makmur		1	1	1		1	1	1		1	1	1	1	10	10
Gabungan jaya raya								1	1	1	1	1		5	5
Gabungan jaya sentosa		1		1			1	1	1	1	1	1	1	9	9
Garuda indah		1		1	1	1		1	1	1	1	1	1	10	10
Garuda jaya			1		1	1		1	1	1		1	1	8	8
Garuda jaya abadi		1	1			1	1	1		1	1	1	1	9	9
Garuda mas		1	1	1	1	1	1		2	1	1	1	1	12	11
Gemini				1	1		1	1		1	1	1		7	7
Haitri jaya A		2				1		1	1			1	1	7	6
Harapan mustika			1		1		1	1		1	1	1		7	7
Haryanto I		1	1	1	1	1	1	1		1	1	1	1	11	11
Holy jaya			1			1		1	1	1	1		1	7	7
Horison		1	1		1	1		2	1	1	1	1	1	11	10
Indah harapan			1	1		1	1		1	1	1		1	8	8
Indah makmur		1		1	1	1	1	1		2	1	2	1	12	10
Indah wijaya		1		1		1	1	1		1		1		7	7
Irwan I		1	1	1	1		1	1	1	1	1	1	1	11	11
Jasa mina agung												1		1	1
Jawa indah				1	1	1		1	1	2	1	2		10	8
Jayakarta		1	1			1	1	1	1	1	1		1	9	9
Jaya wijaya		1	1	1	1	1	1	1	1	2	1	1	2	14	12
Jitu utama		1	1			1	1	1	1		1	1		8	8
Kalimas 1			1											1	1
Kalimas indah A				1	2	1		1	1	1	1			8	7

Na : Number of month in activity. To : Number of trips.

Monthly number of trips per vessel registered in Pekalongan harbour.

Vessel name	Month	01	02	03	04	05	06	07	08	09	10	11	12	To	Na
Kartika seno												1		1	1
Karya samudra 1		1		1		1	1				1	2		7	6
Kasih abadi			1	1		1	1	1	1		1	1	1	9	9
Kasih jaya makmur		1		1	1		1	1	1	1	2		1	10	9
Kasih makmur		1	1		1	1		1	1	1	1	1	1	10	10
Kasih setia						1	1	1	1		1	1	1	7	7
Ketapang jaya 3		1			1				1					3	3
Laksamana		1		1	1	1	1	1	1	1	1			9	9
Laksana berkah		1	1	2		1	1	1		1		1	1	10	9
Laksana berkah B			1			1		1	1	1	1			6	6
Laksana jaya		1	1	1		1		1	1	1	1	1		9	9
Langgeng jaya		1	1	1	1				1		1		1	7	7
Langsung jaya			1		1		1	1	1	1	1	1	1	9	9
Langsung jaya A			1	1		1	1	1	1	1	1	2		10	9
Langsung jaya agung			1		1	1		1	1				1	6	6
Langsung jaya abadi		1	1	1		1	1	1	1	1	1	1	1	11	11
Langsung jaya B			1	1	1	1	1	1	1		2	1	1	11	10
Langsung jaya bahagia											1	1	1	3	3
Langsung jaya indah			1	1		1	1		1	1	1	1		8	8
Langsung jaya makmur		1		1		1		1	1	1	1	1		8	8
Langsung jaya sentosa			1	1		1	1		1	1	1	1	1	9	9
Maha putra		1		1			1	1	1	1	1			7	7
Makin subur		1	1	1	1	1	1			2	1	1	2	12	10
Mars		1	1		1	1								4	4
Megah abadi			1		1	1		1	1	1	1	1	1	9	9
Megah ceria			1	1	1	1		1	1	1	1	1		9	9
Megah harapan			1	1	1									3	3
Megah indah		1		1		1	1	1		1	1	1	1	9	9
Megah jaya		1	1	1		1	1	1	1		1	2		10	9
Megah perkasa								1		1	1	1	1	5	5
Megah raya			1	1		1	1	1		1	1		1	8	8
Megah sejati			1	1	1	1		1	1	1	1	2	1	11	10
Mekar gloria makmur			2		1		1	2	1	1	1	1	1	11	9
Mekar wijaya		1	1	1		1	2	1	1	1	2	1	2	14	11
Mios indah		1		1	1		2		1	1	1	1		9	8
Mina abadi		1	1	1	1	1		1		1	1	1		9	9
Mina baruna		1	1	1	1	1	2	1	2	1	1	2		14	11
Mina baruna I											1	1	1	3	3
Mina harapan		1	1	1	1			1	1	1		1	1	9	9
Mina haslindo		1	1		1	1		1	1	1	2		2	11	9
Mina indah			1		1	1		1	1	1	1	1	1	9	9
Mina jaya 1		1	1	2	1	1	1	1	1	1	1	2	1	14	12
Mina karya				1	1	2		1	1	1	1			8	7
Mina makmur			1		1	1	1	1		1	1	2	1	10	9
Mina mastama		1		1		1	1	1	1	1	1	1	1	10	10
Mina samodra		1		2	2	1	1	1	1	1	2			12	9
Mitra perkasa		1	1		1		1	1		1	1	1	1	9	9
Mitra prima		1	1		1	1	1		1	1		2		9	8
Mitra sejati		1	1	1		1	1		2	1	1	1	1	11	10
Muda hasil			1	1	1		1		1		1			6	6

Na : Number of month in activity. To : Number of trips.

Monthly number of trips per vessel registered in Pekalongan harbour.

Vessel name	Month	01	02	03	04	05	06	07	08	09	10	11	12	To	Na
Multi andalan		1					1	1	1	1	1	1		7	7
Mustika sejati		1	1											2	2
Mutiara indah		1		1		1	1		1	1	1	1	1	9	9
Naga mas		1	1			1		1	1	1		1		7	7
Neptunus		1	1			1	1		1	1	1	1	1	9	9
Nusantara I		1	1		1		1	1	1		1	1		8	8
Pandu 1		2	1	1	2	1	2	1	2	2	1	2	2	19	12
Paringi jaya		1		1		1	1	1		1		1	1	8	8
Patriot		1	1		1	1		1	1	1	1	1	1	10	10
Pekalongan indah			1	1	1	1		1	1		1	1		8	8
Pelita abadi		1		1		1	1		1	1	1	1		8	8
Pelita jaya			1	1	1	1		1	1	1	1	1	1	10	10
Pelita makmur		1	1		1	1		1	1	1	2	1	1	11	10
Pelita perkasa		1		1	1	1		1		1	1	1	1	9	9
Pelita sejati		1	1		1	2	1	1		2	1	1	1	12	10
Pelita sentosa		1	1		1	1	1		1	1	1	1	1	10	10
Pelopor maju		1		1	1		1	1	1	1	1	1	1	10	10
Perintis jayakarta									1	1	1	1	1	5	5
Perintis perkasa		1		1		1	1	1		1	2	1	1	10	9
Perintis sejahtera		1	1	1	1	2	2	1	2	1	1	2	1	16	12
Pertiwi		1	2	1	1	1	1	2	1	2		1	1	14	11
Pisces		1		1	1	1		1	1	1	1	1	1	10	10
Prima abadi		1	1	1		1	1	1	1	1	1	1	1	11	11
Prima jaya abadi		1	1			1	1	1		1	1	1	1	9	9
Prima makmur		1		1	1	1		1		1	1	1	1	9	9
Prima megah utama			1		1	1		1	1	2	1		1	9	8
Profit			2	1			1	1		1				6	5
Prosper		1			1	1	1	1	1	1	1	1		9	9
Purnama			1	1		1	1		1	1		1		7	7
Pustaka abadi				1	1	1	2	1	1	2	1	1		11	9
Putra bungsu		1		1			1	1		1	1	1	1	8	8
Putra harapan		1		1		1	1	1		1				6	6
Putra manunggal jaya		1		1		1	1		1	1		1	1	8	8
Putra manunggal makmur			1	1		1	1		1		1	1	1	8	8
Putra remaja baru		1	1	1		2		1	1	1	1	1	1	11	10
Putra samodra			1		1	1		1		1	1	1	1	8	8
Putra wijaya				1					1					2	2
Ramayana		1	1	1	1	1	1	1	1	1	2	1	1	13	12
Rejeki terang					1		1	1	1		1	1		6	6
Remaja 1			1				1	1	1		1	1	1	7	7
Remaja abadi		1		2	1	1	1	1	1	1	1		1	11	10
Remaja makmur		1	1	1	1	1	2	1	2		1	1	1	13	11
Rukun utama		1				1	1		1			1	1	6	6
Samodra adiguna 2		1		1		1	1	1		1	1	2	1	10	9
Samodra hindia		1	1	1		1	1	1		1	1	1	1	10	10
Samodra indonesia				1		1	1	1	1	1	1	1		8	8
Samodra luas		1				1	1		1	1	1		1	7	7
Samodra pasifik		1	1	1	1	1		1	1	1	1		1	10	10
Sampurna abadi		1		1	1	1		1	1	1	1	1	1	10	10
Sampurna baru			1	2		1	1	1	1	1	1	1	1	11	10

Na : Number of month in activity. To : Number of trips.

Monthly number of trips per vessel registered in Pekalongan harbour.

Vessel name	Month	01	02	03	04	05	06	07	08	09	10	11	12	To	Na
Sampurna jaya		1		1	1	1	1	1		2	1	1	1	11	10
Sari lancar			1	1		1	1		1	1	2	1	1	10	9
Sari rejeki		1	1	1	1						1			5	5
Sari utama										1	1	1	1	4	4
Saturnus		1	1		1		1	1	1	1	1		1	9	9
Sejahtera bahagia			1	1	1	1								4	4
Sekawan indah		1				1	1	1	1	1		1	1	8	8
Sempati makmur									1		1		1	3	3
Senyum harapan			1	1			1	1	1	2	1	1	1	10	9
Senyum makmur		1		1	1	1		2	1	2	1	1	1	12	10
Setia maju			1	1		1	1	1		1	1	1	1	9	9
Setia wijaya													1	1	1
Sinar asia										1		2	1	4	3
Sinar jaya A			1		1		1	1	1		1	1	1	8	8
Sinar makmur				1		2		1	1			1	1	7	6
Sinar manunggal abadi		1	1			1	1	1		2	1	1		9	8
Sinar perdana		1			1			1		1	1			5	5
Sinar rejeki							1		2		1	1		5	4
Sinar sakti													1	1	1
Sinar samodra 1		1		2	1		2	1	1			2	1	11	8
Sinar samodra jaya			1			1	1		1	1	1	1	1	8	8
Sinar surya			1	1		1	1		1	1		1	1	8	8
Slamet agung		1		1		1	1		1	1	2		1	9	8
Soyo abadi		1	1	1	1	1		1	1	1	1	1		10	10
Soyo agung		1	1		1	1		1	1	1	1	2	1	11	10
Soyo agung 2				1	1		1	1	1			1	1	7	7
Soyo agung 3		1		1										2	2
Sri kandi			1			1	1	1		1	1	1	1	8	8
Sri ratu									1	1	1	1	1	5	5
Sri rejeki baru										1		1		2	2
Sri surya		1	1	1	1	1		1	1	1	2	1	1	12	11
Sugih waras I		1		1	1	1		1		1	1	1		8	8
Sukses		1		1	1		1		2	1	1	1	1	10	9
Sukses bahagia			1	1	1	1		1	1	1	1	1	1	10	10
Sumber daya makmur		1		1		1	1	1		1			1	7	7
Sumber harapan		1				1	1		1	1	1	1		7	7
Sumber manggis 1		1		1		1		1	1	1	1	1	1	9	9
Sumber terang			1		1		1	1	1	1	1	1	1	9	9
Sumber urip abadi		1			1	1		1	1	2	2	1	1	11	9
Sunarso makmur		1		1		1		1						4	4
Surya agung		1		1		1		1	1	1	1	1	1	9	9
Surya makmur		1		1		1		1	1	1		1	1	8	8
Surya wijaya			1			1	1	1		1	1	1	1	8	8
Susanto I				1		2		1	1	1	1		1	8	7
Susanto indah			1	1		1		1	2	1	1	1		9	8
Syailendra		1	1	1			1	1	1	1	1	2	1	11	10
Tambah berkah		2		1	1	1	1	1		1	1	1	1	11	10
Teguh haslindo											2	1	1	4	3
Teguh makmur			1	1	1	1	1		1	1	1	1	1	10	10
Teguh prima sempurna		1		1	1		1		1	1	1	1	1	9	9

Na : Number of month in activity. To : Number of trips.

Monthly number of trips per vessel registered in Pekalongan harbour.

Vessel name	Month	01	02	03	04	05	06	07	08	09	10	11	12	To	Na
Teguh sejati		1		1		1		1						4	4
Tirta abadi		1	1	1	1	1	1	1	1	1				9	9
Tirta katulistiwa farming					1		1	1	1	1		1	1	7	7
Tirta makmur					1									1	1
Tongkat muda						1	1	1		1	2	1	1	8	7
Tri jaya			1	1		1		1	1	1		1		7	7
Tri jaya terang		1	1	1		1				2		1	1	8	7
Tri mina jaya			1	2	1	1	1	1	1	1	1	1	1	12	11
Trimurti		1	1	1			2	1	1	1	1	1	1	11	10
Tri sejati		1		1		1		1		1	1		1	7	7
Tujuh-tujuh		1		1	1		1	1	1	1	1		1	9	9
Tunas harapan		1			1	1		1			1	1		6	6
Udayana		1	1	1		1		2	1		2	1	1	11	9
Unggul abadi		1	1	1		1	1	1		2	1	1	1	11	10
Unggul prima		1	1		1									3	3
Union abadi		1	1	1		1	1	1		1	1	1	1	10	10
Union harapan			2	1		1	1	1	1	1		1	1	10	9
Union jaya			1	1		1		1	1	1	1	1	1	9	9
Union jaya abadi		1	1	1		1						1	1	6	6
Union makmur			1	1		1	1		1	1	1	1		8	8
Venus			1	1	1		1	1	1	1	1	2	1	11	10
Victori			1	1	2	1	1					1	2	9	7
Victori abadi							1		1	1		1		4	4
Wira buana			2		1	1		1	1	1	1	1	1	10	9
Yupiter			1	1		1	1		1	1	1		1	8	8

Na : Number of month in activity. To : Number of trips.

Monthly number of trips per vessel registered in Pekalongan harbour.

Vessel name	Month	01	02	03	04	05	06	07	08	09	10	11	12	To	Na
Abimanju			1	1		1	1		1	1	1			7	7
Assaudah baru 1		2	1	2	1	1								7	5
Berkah utama		1	1	1		1						1		5	5
Hafteri baru		1	1			1	1	1	1	1	1			8	8
Hak nusantara indah		1		1	1		2	2		1	1	1		10	8
Indah lestari				1				2	1		1	1		6	5
Murni sari		1		1		1	1		1	1	1			7	7

Na: Number of month in activity. To: Total number of trips.

Monthly number of trips per vessel registered in Batang harbour.

Vessel name	Month	01	02	03	04	05	06	07	08	09	10	11	12	To	Na
Jawa indah				1		1		1	1	1	1	1	1	8	8
Satria baru												1		1	1
Satria perkasa		1	1	1				2		1	1	1	1	9	8
Satria sakti				1						1	1	1	1	5	5
Sinar mutiara			1						1		1	1	1	5	5

Na : Number of month in activity To: Total number of trips.

Monthly number of trips per vessel registered in Rembang harbour.

Vessel name	Month	01	02	03	04	05	06	07	08	09	10	11	12	To	Na
Along jaya		1		1		1		1		1	1	2	1	9	8
Bahtera jaya		1	1	1		1	1	1	1	1	1	1	1	11	11
Bahtera makmur												1	1	2	2
Bahtera sentosa									1	1	2	1	1	6	5
Bima samodra		1		1		1		1	2	1	1	2	1	11	9
Gondo mino				1		1	1		2		1	1	2	9	7
Harapan nyata				1				1	1	1		1		5	5
Jaya sentosa		1		1		1		1	1	2	1	1	1	10	9
Kartika sakti		1		1			1	1	1	1	1	1	1	9	9
Kintamani		1		1		1	1		1	1	1	1		8	8
Makin maju		1		1		1	1	1	1		1	2	1	10	9
Makmur sentosa		1		1		1		1	1	1	1	1	1	9	9
Margo agung										1	1	1	1	4	4
Margo birowo				1		1	1	1		1	1	2	1	9	8
Margo jaya		1		1		1		1	1	1	1	2	1	10	9
Margo lestari		1		1		1	1		1	2	1	1	1	10	9
Margo makmur		1	1	1		1		1		1	1	1	1	9	9
Margo mukti		1					1	1	2	1	1	1	1	9	8
Margo mulyo		1	1					1	1	1	1		1	7	7
Margo rahayu		1	1	1		1			2	1	2		1	10	8
Margo rejeki		1		1		1	1	1	1	1	1	1	1	10	10
Margo sejati				1		1		1		2	1	2	1	9	7
Margo sentosa		1	1	1			1		1	1	1	1		8	8
Margo wibowo		2		1		1	1	1	1	3	1	1	2	14	10
Mekar wijaya makmur		1		1		1		1	2	1	2	1	1	11	9
Mercurius			1	1		1	1							4	4
Mina raya		2		1	1	1		1	1		2	2	1	12	9
Mustika sakti									2	1	1	2	1	7	5
Mutiara sakti		1		1		1	1		1	1	1	1	1	9	9
Pelangi indah		1		1		1	1	1	1	1	2	1	1	11	11
Pelangi kasih		1	1	1		1		1	1	1	1	1	1	10	10
Perwira sakti		1		1			1	1	1	1	1		1	8	8
Putra manggala sakti								1		1	1	1	1	5	5
Putra manunggal sakti				1		1	1	1	1	1		1		7	7
Putra mekar sejati		1	1	1		1	1	1	1	1	2	1	2	12	10
Putra nusantara sakti													1	1	1
Putra sulung		1		1			1	1	2	1	1	1	2	11	9
Putra utama sakti		1		1		1		2	1		1	1	1	9	8
Sarono mino 1		1	1				1	1	1	1	1	1	1	9	9
Sarono mino 2			1	1			1	1	2	1	1	1	1	10	9
Seruni sari		1		1										2	2
Teguh harapan						1	1	1	1	1	1	1	1	8	8
Topaz		1		1		1		1		2	1	1	1	9	8
Tunas sejati		1	1	1		1	1		1	2	1	1	1	11	10
Tunas wibawa		1		1		1		1		2	1	1	1	9	8
Union		1		1		1		1	1	1	1		1	8	8
Uranus		1		1		1	1	1	1	1	1	2	1	11	10
Wijaya sakti		1		1		1			1	2	1	1	1	9	8

Na : Number of month in activity. To : Number of trips.

Monthly number of trips per vessel registered in Juwana harbour.

	Tegal	Pekalongan	Batang	Juwana	Rembang	Total
1993	44	274	7	48	5	378

Number of purse seiners registered in these harbours and which achieved at least one trip along the year.

	J	F	M	A	M	J	J	A	S	O	N	D	Mean
Tegal	12	20	24	12	22	20	22	24	25	27	26	18	21
Pekalongan	151	158	167	128	192	161	198	179	213	212	215	191	180
Batang	5	4	6	2	5	4	3	4	4	5	3		4
Juwana	34	11	38	1	31	23	33	37	41	42	42	43	31
Rembang	1	2	3		1		2	2	3	4	5	2	3
Total	203	195	238	143	251	208	258	246	286	290	291	254	239

Monthly number of purse seiners which are active in each harbour

	J	F	M	A	M	J	J	A	S	O	N	D	Mean
Tegal	11	21	23	10	24	21	23	25	31	35	34	19	23
Pekalongan	111	142	148	116	173	139	160	133	149	140	137	120	139
Juwana	81	31	66	16	55	51	72	92	95	100	109	113	73
Rembang	1	4	5		1		4		25	22	21	6	7

Monthly number of purse seiners landing in each harbour

	J	F	M	A	M	J	J	A	S	O	N	D	Mean
Tegal	11	19	21	10	19	18	20	21	24	24	23	16	19
Pekalongan	105	138	142	114	167	135	155	130	146	132	133	119	135
Juwana	33	8	35	1	30	23	30	37	32	40	39	41	29
Rembang	1	2	3		1		2		2	4	4	4	2

Monthly number of purse seiners landing in the harbour of its registration.

	J	F	M	A	M	J	J	A	S	O	N	D	Mean
Tegal		2	2		5	3	3	4	7	11	11	3	4
Pekalongan	6	4	6	2	6	4	5	3	3	8	4	1	4
Juwana	48	23	31	15	25	28	42	55	63	60	70	72	44
Rembang		2	2				2		23	18	17	2	6

Monthly number of purse seiners which land in an harbour where it is not registered.

MEDIUM-SIZE SEINERS

MEDIUM SEINERS

In 1987, it appears at Pekalongan harbour a new category of purse seiners called there purse seine "sedang" or literally "medium size" seiners. This new category extends in the second semester of 1987.

These vessels exist only at Pekalongan. Until 1989, they land in this harbour exclusively. Since 1990, Juwana is used as landing place by that category, Juwana being in certain seasons closer to the fishing grounds. In 1992, as the landings of both, large and medium purse seiners, increased in Pekalongan harbour they start to land in Batang, Rembang and Tegal harbours. In 1993, they continue to extend in the western part of the Java Sea and some of them land in Eretan Wetan which is located in the West java province.

This second party of the document presents the activity of that category of seiners. For every landing place, we edit two tables.

The first one presents the catch per month and per main commercial categories, the total landings and the value of these landings.

The second one gives by month some indexes of the effort as the number of vessels which are active (at Pekalongan where the seiners are registered), the number of trips, the number of days at sea and the mean number of days at sea per trip.

PEKALONGAN

Mois	Banyar	Bentong	Juwi	Tongkol	Layang	Lemuru	Selar	Total	Value
J	286	285	55	24	468	199	10	1356	1310197
F	286	154	62	11	359	144	17	1055	1128228
M	206	301	110	14	250	63	13	979	802752
A	334	253	336	22	389	56	31	1501	1478574
M	262	149	380	23	327	34	32	1295	1199396
J	392	239	320	52	483	20	9	1621	1258365
J	318	292	504	20	615	233	4	2128	1488881
A	255	116	292	79	953	150	9	2126	1195901
S	346	60	169	41	1136	296	2	2266	953924
O	488	27	260	82	1255	293	2	2497	1035305
N	411	76	281	60	1464	521	15	2938	1286581
D	272	90	293	32	787	559	31	2161	1332081
Total	3856	2042	3062	460	8486	2568	175	21923	14470185

Landings of the main species (tons) caught by the medium-size seiners and total value of these landings in thousands of rupiah.

	J	F	M	A	M	J	J	A	S	O	N	D	Total
1	127	109	121	126	116	122	132	131	145	139	138	140	187
2	139	113	127	152	147	117	163	141	123	128	144	132	1626
3	1744	1718	1590	1730	2121	1805	2183	1924	1668	1704	1789	1852	21828
4	12.5	15.2	12.5	11.4	14.4	15.4	13.4	13.6	13.6	13.3	12.4	14.0	

1: Number of active vessels.

2: Number of trips

3: Number of days at sea.

4: Mean days at sea per trip

Monthly evolution of some indexes of the effort for the medium-size seiners fleet.

ERETAN

Mois	Banyar	Bentong	Juwi	Tongkol	Layang	Lemuru	Selar	Total	Value
J		1			1			3	2338
F									
M									
A									
M									
J	46	38	75	9	33	5	1	275	210632
J	54	52	123		16	57	1	321	225095
A	43	26	105	5	33	45	5	316	176634
S	104	20	147	2	65	147		502	211140
O	78	10	159	3	197	50		515	207825
N	28	20	38	2	186	18	4	309	139610
D	11	14	43	3	34	23	9	143	85097
Total	364	181	690	24	565	345	20	2384	1258371

Landings of the main species (tons) caught by the medium-size seiners and total value of these landings in thousands of rupiah.

	J	F	M	A	M	J	J	A	S	O	N	D	Total
2	1					37	47	45	55	52	29	16	282
3	8					413	465	472	568	557	296	178	2957
4	8.0					11.2	9.9	10.5	10.3	10.7	10.2	11.1	

2: Number of trips

3: Number of days at sea.

4: Mean days at sea per trip

Monthly evolution of some indexes of the effort for the medium-size seiners fleet.

TEGAL

Mois	Banyar	Bentong	Juwi	Tongkol	Layang	Lemuru	Selar	Total	Value
J									
F	3	1			5			9	10865
M	7	5				3		15	13646
A	5	3	10		2			25	21129
M	1			1	1			3	2384
J									
J									
A	4	14	6		33	2		64	31138
S	35	6	3	8	114	5		177	73511
O	15	7			36			59	24437
N	19	28	27	2	35	6		122	48596
D	13	31	4	1	41	14		111	73272
Total	102	95	50	12	267	30	0	585	298978

Landings of the main species (tons) caught by the medium-size seiners and total value of these landings in thousands of rupiah.

	J	F	M	A	M	J	J	A	S	O	N	D	Total
2		1	2	2	1			4	8	3	2	3	26
3		16	23	49	12			56	118	41	50	95	460
4		16.0	11.5	24.5	12.0			14.0	14.8	13.7	25.0	31.7	

2: Number of trips

3: Number of days at sea.

4: Mean days at sea per trip

Monthly evolution of some indexes of the effort for the medium-size seiners fleet.

BATANG

Mois	Banyar	Bentong	Juwi	Tongkol	Layang	Lemuru	Selar	Total	Value
J	24	40	3		55	1	4	155	148494
F	20	3			26		4	53	53561
M	5	9	12	6	3		1	47	58152
A	15	15	52	3	5	2	4	103	157343
M	6	8	43	1	5	1	4	76	86845
J	17	26	28	3	12	2		104	121010
J	8	8	18		2	8		47	57764
A	3	2	8		3	4		25	20813
S	53	10	76	1	34	76		259	144419
O	62	8	127	2	157	40		411	197174
N	56	40	76	5	374	35	8	622	349883
D	22	30	90	5	71	48	19	301	216429
Total	291	199	533	26	747	217	44	2203	1611887

Landings of the main species (tons) caught by the medium-size seiners and total value of these landings in thousands of rupiah.

	J	F	M	A	M	J	J	A	S	O	N	D	Total
2	19	7	12	18	18	21	8	5	20	29	49	14	220
3	150	29	104	185	221	234	79	52	207	311	500	155	2227
4	7.9	4.1	8.7	10.3	12.3	11.1	9.9	10.4	10.4	10.7	10.2	11.1	

2: Number of trips

3: Number of days at sea.

4: Mean days at sea per trip

Monthly evolution of some indexes of the effort for the medium-size seiners fleet.

JUWANA

Mois	Banyar	Bentong	Juwi	Tongkol	Layang	Lemuru	Selar	Total	Value
J	94	50	17	8	88	204		501	328482
F	6	3			15	15		46	29620
M	25	32	16	85	44	23	4	149	105936
A	23	16	20	2	35	16	5	127	99957
M	5	7	1	2	43	1		63	35441
J	22	4	21	5	54	3		127	80031
J	33	27	3	5	188	20		307	218632
A	22	7		12	163	3		269	147469
S	51	1	2	1	328	23		493	175449
O	86	5	17	21	431	27		624	223529
N	71	6	46	17	331	88	1	578	205191
D	84	16	95	6	339	170	1	786	395692
Total	522	174	238	164	2059	593	11	4070	2045429

Landings of the main species (tons) caught by the medium-size seiners and total value of these landings in thousands of rupiah.

	J	F	M	A	M	J	J	A	S	O	N	D	Total
2	31	3	10	7	3	7	15	11	17	16	19	29	168
3	619	81	227	192	92	170	357	228	200	180	192	333	2871
4	20.0	27.0	22.7	27.4	30.7	24.3	23.8	20.7	11.8	11.3	10.1	11.5	

2: Number of trips

3: Number of days at sea.

4: Mean days at sea per trip

Monthly evolution of some indexes of the effort for the medium-size seiners fleet.

REMBANG

Mois	Banyar	Bentong	Juwi	Tongkol	Layang	Lemuru	Selar	Total	Value
J									
F									
M	1	3			1			6	4979
A									
M									
J									
J									
A									
S	6		1	7	35	1		55	21937
O									
N	17	8	3	8	129	17	5	188	116076
D	3		4	1	26	8	4	46	18857
Total	27	11	8	16	191	26	9	295	161849

Landings of the main species (tons) caught by the medium-size seiners and total value of these landings in thousands of rupiah.

	J	F	M	A	M	J	J	A	S	O	N	D	Total
2			1						3		6	1	11
3			5						56		181	17	259
4			5.0						18.7		30.2	17.0	

2: Number of trips

3: Number of days at sea.

4: Mean days at sea per trip

Monthly evolution of some indexes of the effort for the medium-size seiners fleet.

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