

Table 5-2-7-4(1) Changes in the catch of *Pagellus bellottii*

No. 1 (70mm mesh size regulation in Industrial fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	750.0	615.8	623.7	627.9	629.7	630.0	630.0	630.0
relative value	100.0	82.1	83.2	83.7	84.0	84.0	84.0	84.0
Others catch(tons)	6636.5	6705.4	6785.3	6823.5	6838.9	6842.1	6842.1	6842.1
relative value	100.0	101.0	102.2	102.8	103.0	103.1	103.1	103.1
Total catch(tons)	7386.6	7321.2	7408.9	7451.4	7468.6	7472.1	7472.1	7472.1
relative value	100.0	99.1	100.3	100.9	101.1	101.2	101.2	101.2

No. 2 (80mm mesh size regulation in Industrial fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	750.0	457.2	470.5	478.4	481.6	482.1	482.1	482.1
relative value	100.0	61.0	62.7	63.8	64.2	64.3	64.3	64.3
Others catch(tons)	6636.5	6783.4	6942.6	7016.7	7045.2	7049.5	7049.5	7049.5
relative value	100.0	102.2	104.6	105.7	106.2	106.2	106.2	106.2
Total catch(tons)	7386.6	7240.6	7413.1	7495.1	7526.8	7531.5	7531.5	7531.5
relative value	100.0	98.0	100.4	101.5	101.9	102.0	102.0	102.0

No. 3 (to introduce a closed season for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	750.0	547.1	553.7	556.5	557.3	557.4	557.4	557.4
relative value	100.0	72.9	73.8	74.2	74.3	74.3	74.3	74.3
Others catch(tons)	6636.5	6754.6	6837.1	6871.2	6882.1	6883.5	6883.5	6883.5
relative value	100.0	101.8	103.0	103.5	103.7	103.7	103.7	103.7
Total catch(tons)	7386.6	7301.7	7390.8	7427.6	7439.5	7441.0	7441.0	7441.0
relative value	100.0	98.9	100.1	100.6	100.7	100.7	100.7	100.7

No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	750.0	453.8	464.2	469.1	470.9	471.2	471.2	471.2
relative value	100.0	60.5	61.9	62.5	62.8	62.8	62.8	62.8
Others catch(tons)	6636.5	6801.3	6941.3	7003.5	7026.1	7029.9	7029.9	7029.9
relative value	100.0	102.5	104.6	105.5	105.9	105.9	105.9	105.9
Total catch(tons)	7386.6	7255.2	7405.5	7472.6	7497.1	7501.2	7501.2	7501.2
relative value	100.0	98.2	100.3	101.2	101.5	101.6	101.6	101.6

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	750.0	341.8	354.4	361.3	363.9	364.3	364.3	364.3
relative value	100.0	45.6	47.3	48.2	48.5	48.6	48.6	48.6
Others catch(tons)	6636.5	6851.0	7050.6	7140.4	7173.4	7178.0	7178.0	7178.0
relative value	100.0	103.2	106.2	107.6	108.1	108.2	108.2	108.2
Total catch(tons)	7386.6	7192.8	7405.0	7501.7	7537.3	7542.3	7542.3	7542.3
relative value	100.0	97.4	100.3	101.6	102.0	102.1	102.1	102.1

No. 6 (to introduce a closed period for all fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	750.0	654.1	742.0	786.1	803.3	805.8	805.8	805.8
relative value	100.0	87.2	98.9	104.8	107.1	107.4	107.4	107.4
Others catch(tons)	6636.5	5787.7	6565.4	6955.5	7108.0	7130.2	7130.2	7130.2
relative value	100.0	87.2	98.9	104.8	107.1	107.4	107.4	107.4
Total catch(tons)	7386.6	6441.9	7307.4	7741.6	7911.3	7936.0	7936.0	7936.0
relative value	100.0	87.2	98.9	104.8	107.1	107.4	107.4	107.4

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	750.0	676.2	768.4	820.5	842.1	846.7	846.7	846.7
relative value	100.0	90.2	102.5	109.4	112.3	112.9	112.9	112.9
Others catch(tons)	6636.5	5983.2	6799.2	7260.4	7450.9	7491.9	7491.9	7491.9
relative value	100.0	90.2	102.5	109.4	112.3	112.9	112.9	112.9
Total catch(tons)	7386.6	6659.4	7567.6	8080.9	8292.9	8338.6	8338.6	8338.6
relative value	100.0	90.2	102.5	109.4	112.3	112.9	112.9	112.9

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	750.0	552.1	746.5	875.3	929.9	939.3	939.3	939.3
relative value	100.0	73.6	99.5	116.7	124.0	125.2	125.2	125.2
Others catch(tons)	6636.5	4884.9	6604.9	7744.9	8227.8	8311.5	8311.5	8311.5
relative value	100.0	73.6	99.5	116.7	124.0	125.2	125.2	125.2
Total catch(tons)	7386.6	5437.0	7351.4	8620.2	9157.7	9250.8	9250.8	9250.8
relative value	100.0	73.6	99.5	116.7	124.0	125.2	125.2	125.2

Table 5-2-7-4(2) Changes in the catch of *Dentex canariensis*

No. 1 (70mm mesh size regulation in Industrial fisheries)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	catch(tons)	194.9	192.0	193.7	194.8	195.4	195.6	195.6	195.6
	relative value	100.0	98.5	99.4	100.0	100.3	100.4	100.4	100.4
Others	catch(tons)	481.6	483.1	487.2	489.9	491.3	492.0	492.0	492.0
	relative value	100.0	100.3	101.1	101.7	102.0	102.1	102.1	102.1
Total	catch(tons)	676.5	675.1	680.8	684.7	686.7	687.6	687.6	687.6
	relative value	100.0	99.8	100.6	101.2	101.5	101.6	101.6	101.6

No. 2 (80mm mesh size regulation in Industrial fisheries)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	catch(tons)	194.9	186.8	190.5	193.1	194.4	195.0	195.0	195.0
	relative value	100.0	95.8	97.8	99.1	99.8	100.1	100.1	100.1
Others	catch(tons)	481.6	484.5	493.9	500.1	503.4	504.9	504.9	504.9
	relative value	100.0	100.6	102.5	103.8	104.5	104.8	104.8	104.8
Total	catch(tons)	676.5	671.3	684.4	693.2	697.7	699.8	699.8	699.8
	relative value	100.0	99.2	101.2	102.5	103.1	103.4	103.4	103.4

No. 3 (to introduce a closed season for Industrial fisheries from October through December)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	catch(tons)	194.9	172.1	175.7	177.6	178.4	178.6	178.6	178.6
	relative value	100.0	88.3	90.2	91.1	91.5	91.6	91.6	91.6
Others	catch(tons)	481.6	495.1	505.6	511.1	513.4	514.0	514.0	514.0
	relative value	100.0	102.8	105.0	106.1	106.6	106.7	106.7	106.7
Total	catch(tons)	676.5	667.3	681.3	688.6	691.7	692.5	692.5	692.5
	relative value	100.0	98.6	100.7	101.8	102.2	102.4	102.4	102.4

No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	catch(tons)	194.9	170.7	175.0	177.3	178.3	178.6	178.6	178.6
	relative value	100.0	87.6	89.8	91.0	91.5	91.7	91.7	91.7
Others	catch(tons)	481.6	495.8	508.2	515.1	518.1	519.0	519.0	519.0
	relative value	100.0	102.9	105.5	106.9	107.6	107.8	107.8	107.8
Total	catch(tons)	676.5	666.5	683.2	692.4	696.4	697.7	697.7	697.7
	relative value	100.0	98.5	101.0	102.3	102.9	103.1	103.1	103.1

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	catch(tons)	194.9	166.1	171.9	175.3	176.9	177.4	177.4	177.4
	relative value	100.0	85.2	88.2	90.0	90.8	91.1	91.1	91.1
Others	catch(tons)	481.6	496.9	513.7	523.6	528.3	530.0	530.0	530.0
	relative value	100.0	103.2	106.7	108.7	109.7	110.0	110.0	110.0
Total	catch(tons)	676.5	663.0	685.6	698.9	705.1	707.4	707.4	707.4
	relative value	100.0	98.0	101.4	103.3	104.2	104.6	104.6	104.6

No. 6 (to introduce a closed period for all fisheries from October through December)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	catch(tons)	194.9	185.2	199.2	207.0	210.5	211.4	211.4	211.4
	relative value	100.0	95.1	102.2	106.2	108.0	108.5	108.5	108.5
Others	catch(tons)	481.6	457.8	492.3	511.6	520.2	522.6	522.6	522.6
	relative value	100.0	95.1	102.2	106.2	108.0	108.5	108.5	108.5
Total	catch(tons)	676.5	643.1	691.5	718.6	730.6	734.0	734.0	734.0
	relative value	100.0	95.1	102.2	106.2	108.0	108.5	108.5	108.5

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	catch(tons)	194.9	193.4	199.3	203.3	205.3	206.3	206.3	206.3
	relative value	100.0	99.2	102.3	104.3	105.4	105.9	105.9	105.9
Others	catch(tons)	481.6	478.0	492.6	502.4	507.5	509.8	509.8	509.8
	relative value	100.0	99.2	102.3	104.3	105.4	105.9	105.9	105.9
Total	catch(tons)	676.5	671.3	691.9	705.6	712.8	716.1	716.1	716.1
	relative value	100.0	99.2	102.3	104.3	105.4	105.9	105.9	105.9

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	catch(tons)	194.9	189.2	203.2	212.5	217.4	219.6	219.6	219.6
	relative value	100.0	97.1	104.3	109.1	111.6	112.7	112.7	112.7
Others	catch(tons)	481.6	467.6	502.2	525.3	537.4	542.9	542.9	542.9
	relative value	100.0	97.1	104.3	109.1	111.6	112.7	112.7	112.7
Total	catch(tons)	676.5	656.7	705.4	737.8	754.8	762.5	762.5	762.5
	relative value	100.0	97.1	104.3	109.1	111.6	112.7	112.7	112.7

Table 5-2-7-4(3) Changes in the catch of *Sparus caeruleostictus*

No. 1 (70mm mesh size regulation in Industrial fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	310.0	303.3	305.7	306.3	306.3	306.3	306.3	306.3
relative value	100.0	97.9	98.6	98.8	98.8	98.8	98.8	98.8
Others catch(tons)	766.1	784.6	790.4	792.1	792.1	792.1	792.1	792.1
relative value	100.0	102.4	103.2	103.4	103.4	103.4	103.4	103.4
Total catch(tons)	1076.1	1087.9	1096.0	1098.4	1098.4	1098.4	1098.4	1098.4
relative value	100.0	101.1	101.9	102.1	102.1	102.1	102.1	102.1

No. 2 (80mm mesh size regulation in Industrial fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	310.0	290.6	295.7	297.3	297.3	297.3	297.3	297.3
relative value	100.0	93.7	95.4	95.9	95.9	95.9	95.9	95.9
Others catch(tons)	766.1	803.3	816.1	819.9	819.9	819.9	819.9	819.9
relative value	100.0	104.8	106.5	107.0	107.0	107.0	107.0	107.0
Total catch(tons)	1076.1	1093.8	1111.8	1117.1	1117.1	1117.1	1117.1	1117.1
relative value	100.0	101.6	103.3	103.8	103.8	103.8	103.8	103.8

No. 3 (to introduce a closed season for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	310.0	281.0	284.3	285.1	285.1	285.1	285.1	285.1
relative value	100.0	90.7	91.7	92.0	92.0	92.0	92.0	92.0
Others catch(tons)	766.1	807.0	817.0	819.4	819.4	819.4	819.4	819.4
relative value	100.0	105.3	106.6	107.0	107.0	107.0	107.0	107.0
Total catch(tons)	1076.1	1088.1	1101.4	1104.5	1104.5	1104.5	1104.5	1104.5
relative value	100.0	101.1	102.3	102.6	102.6	102.6	102.6	102.6

No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	310.0	278.0	282.2	283.3	283.3	283.3	283.3	283.3
relative value	100.0	89.7	91.1	91.4	91.4	91.4	91.4	91.4
Others catch(tons)	766.1	815.5	828.4	831.6	831.6	831.6	831.6	831.6
relative value	100.0	106.4	108.1	108.5	108.5	108.5	108.5	108.5
Total catch(tons)	1076.1	1093.4	1110.6	1114.9	1114.9	1114.9	1114.9	1114.9
relative value	100.0	101.6	103.2	103.6	103.6	103.6	103.6	103.6

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	310.0	268.3	274.2	275.7	275.7	275.7	275.7	275.7
relative value	100.0	86.6	88.5	88.9	88.9	88.9	88.9	88.9
Others catch(tons)	766.1	828.5	844.3	849.0	849.0	849.0	849.0	849.0
relative value	100.0	107.9	110.2	110.8	110.8	110.8	110.8	110.8
Total catch(tons)	1076.1	1094.8	1118.5	1124.7	1124.7	1124.7	1124.7	1124.7
relative value	100.0	101.7	103.9	104.5	104.5	104.5	104.5	104.5

No. 6 (to introduce a closed period for all fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	310.0	322.7	336.9	340.3	340.3	340.3	340.3	340.3
relative value	100.0	104.1	108.7	109.8	109.8	109.8	109.8	109.8
Others catch(tons)	766.1	797.7	832.6	841.2	841.2	841.2	841.2	841.2
relative value	100.0	104.1	108.7	109.8	109.8	109.8	109.8	109.8
Total catch(tons)	1076.1	1120.4	1169.5	1181.5	1181.5	1181.5	1181.5	1181.5
relative value	100.0	104.1	108.7	109.8	109.8	109.8	109.8	109.8

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	310.0	322.3	330.9	333.5	333.5	333.5	333.5	333.5
relative value	100.0	104.0	106.8	107.6	107.6	107.6	107.6	107.6
Others catch(tons)	766.1	796.5	817.9	824.2	824.2	824.2	824.2	824.2
relative value	100.0	104.0	106.8	107.6	107.6	107.6	107.6	107.6
Total catch(tons)	1076.1	1118.8	1148.8	1157.7	1157.7	1157.7	1157.7	1157.7
relative value	100.0	104.0	106.8	107.6	107.6	107.6	107.6	107.6

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	310.0	328.8	349.3	355.3	355.3	355.3	355.3	355.3
relative value	100.0	106.1	112.7	114.6	114.6	114.6	114.6	114.6
Others catch(tons)	766.1	812.8	863.3	878.3	878.3	878.3	878.3	878.3
relative value	100.0	106.1	112.7	114.6	114.6	114.6	114.6	114.6
Total catch(tons)	1076.1	1141.6	1212.6	1233.6	1233.6	1233.6	1233.6	1233.6
relative value	100.0	106.1	112.7	114.6	114.6	114.6	114.6	114.6

Table 5-2-7-4(4) Changes in the catch of *Pseudolithus senegalensis*

No. 1 (70mm mesh size regulation in Industrial fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1
relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Others catch(tons)	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4
relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total catch(tons)	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5
relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

No. 2 (80mm mesh size regulation in Industrial fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1
relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Others catch(tons)	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4
relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total catch(tons)	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5
relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

No. 3 (to introduce a closed season for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	139.1	106.9	108.1	108.6	108.7	108.7	108.7	108.7
relative value	100.0	76.9	77.7	78.1	78.2	78.2	78.2	78.2
Others catch(tons)	1001.4	1021.8	1033.6	1038.3	1039.7	1039.9	1040.0	1040.0
relative value	100.0	102.0	103.2	103.7	103.8	103.8	103.8	103.8
Total catch(tons)	1140.5	1128.7	1141.7	1146.9	1148.4	1148.7	1148.7	1148.7
relative value	100.0	99.0	100.1	100.6	100.7	100.7	100.7	100.7

No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	139.1	106.9	108.1	108.6	108.7	108.7	108.7	108.7
relative value	100.0	76.9	77.7	78.1	78.2	78.2	78.2	78.2
Others catch(tons)	1001.4	1021.8	1033.6	1038.3	1039.7	1039.9	1040.0	1040.0
relative value	100.0	102.0	103.2	103.7	103.8	103.8	103.8	103.8
Total catch(tons)	1140.5	1128.7	1141.7	1146.9	1148.4	1148.7	1148.7	1148.7
relative value	100.0	99.0	100.1	100.6	100.7	100.7	100.7	100.7

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	139.1	106.9	108.1	108.6	108.7	108.7	108.7	108.7
relative value	100.0	76.9	77.7	78.1	78.2	78.2	78.2	78.2
Others catch(tons)	1001.4	1021.8	1033.6	1038.3	1039.7	1039.9	1040.0	1040.0
relative value	100.0	102.0	103.2	103.7	103.8	103.8	103.8	103.8
Total catch(tons)	1140.5	1128.7	1141.7	1146.9	1148.4	1148.7	1148.7	1148.7
relative value	100.0	99.0	100.1	100.6	100.7	100.7	100.7	100.7

No. 6 (to introduce a closed period for all fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	139.1	128.2	139.2	145.0	147.0	147.4	147.5	147.5
relative value	100.0	90.8	100.1	104.3	105.7	106.0	106.0	106.0
Others catch(tons)	1001.4	909.0	1002.1	1044.1	1058.7	1061.5	1061.9	1061.9
relative value	100.0	90.8	100.1	104.3	105.7	106.0	106.0	106.0
Total catch(tons)	1140.5	1035.2	1141.2	1189.1	1205.8	1209.0	1209.3	1209.3
relative value	100.0	90.8	100.1	104.3	105.7	106.0	106.0	106.0

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1
relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Others catch(tons)	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4
relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total catch(tons)	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5
relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1
relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Others catch(tons)	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4	1001.4
relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Total catch(tons)	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5	1140.5
relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table 5-2-7-4(5) Changes in the catch of *Brachydeuterus auritus*

No. 1 (70mm mesh size regulation in Industrial fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	1114.8	904.0	908.4	911.9	913.8	914.6	914.8	914.8
relative value	100.0	81.1	81.5	81.8	82.0	82.0	82.1	82.1
Others catch(tons)	12580.4	12607.9	12665.3	12708.7	12730.6	12739.0	12741.8	12742.3
relative value	100.0	100.2	100.7	101.0	101.2	101.3	101.3	101.3
Total catch(tons)	13695.2	13512.0	13573.7	13620.7	13644.4	13653.6	13656.6	13657.1
relative value	100.0	98.7	99.1	99.5	99.6	99.7	99.7	99.7

No. 2 (80mm mesh size regulation in Industrial fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	1114.8	628.3	636.3	642.4	645.6	646.8	647.2	647.3
relative value	100.0	56.4	57.1	57.6	57.9	58.0	58.1	58.1
Others catch(tons)	12580.4	12657.1	12795.8	12885.4	12927.1	12942.3	12946.7	12947.4
relative value	100.0	100.6	101.7	102.4	102.8	102.9	102.9	102.9
Total catch(tons)	13695.2	13285.5	13432.1	13527.8	13572.7	13589.1	13593.9	13594.6
relative value	100.0	97.0	98.1	98.8	99.1	99.2	99.3	99.3

No. 3 (to introduce a closed season for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	1114.8	593.5	599.8	603.2	604.6	605.1	605.2	605.2
relative value	100.0	53.2	53.8	54.1	54.2	54.3	54.3	54.3
Others catch(tons)	12580.4	12708.8	12845.4	12918.4	12949.1	12959.2	12961.8	12962.2
relative value	100.0	101.0	102.1	102.7	102.9	103.0	103.0	103.0
Total catch(tons)	13695.2	13302.4	13445.2	13521.6	13553.7	13564.2	13567.0	13567.4
relative value	100.0	97.1	98.2	98.7	99.0	99.0	99.1	99.1

No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	1114.8	488.8	495.8	500.1	502.0	502.7	502.9	502.9
relative value	100.0	43.8	44.5	44.9	45.0	45.1	45.1	45.1
Others catch(tons)	12580.4	12719.9	12886.1	12982.0	13024.5	13039.2	13043.5	13044.1
relative value	100.0	101.1	102.4	103.2	103.5	103.6	103.7	103.7
Total catch(tons)	13695.2	13208.7	13382.0	13482.1	13526.5	13541.9	13546.3	13547.0
relative value	100.0	96.4	97.7	98.4	98.8	98.9	98.9	98.9

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	1114.8	344.9	352.0	358.5	358.8	359.6	359.8	359.8
relative value	100.0	30.9	31.6	32.0	32.2	32.3	32.3	32.3
Others catch(tons)	12580.4	12739.7	12951.2	13073.6	13127.7	13146.5	13151.8	13152.5
relative value	100.0	101.3	102.9	103.9	104.4	104.5	104.5	104.5
Total catch(tons)	13695.2	13084.6	13303.2	13430.2	13486.5	13506.1	13511.6	13512.3
relative value	100.0	95.5	97.1	98.1	98.5	98.6	98.7	98.7

No. 6 (to introduce a closed period for all fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	1114.8	685.6	788.2	855.9	891.5	906.1	910.7	911.4
relative value	100.0	61.5	70.7	76.8	80.0	81.3	81.7	81.8
Others catch(tons)	12580.4	7736.7	8894.6	9659.3	10060.6	10225.3	10277.5	10285.4
relative value	100.0	61.5	70.7	76.8	80.0	81.3	81.7	81.8
Total catch(tons)	13695.2	8422.3	9682.7	10515.2	10952.0	11131.4	11188.2	11196.8
relative value	100.0	61.5	70.7	76.8	80.0	81.3	81.7	81.8

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	1114.8	925.8	982.1	1030.9	1057.5	1068.2	1071.7	1072.4
relative value	100.0	83.0	88.1	92.5	94.9	95.8	96.1	96.2
Others catch(tons)	12580.4	10447.5	11083.2	11634.2	11934.1	12054.2	12094.6	12101.6
relative value	100.0	83.0	88.1	92.5	94.9	95.8	96.1	96.2
Total catch(tons)	13695.2	11373.3	12065.3	12665.1	12991.7	13122.3	13166.3	13174.0
relative value	100.0	83.0	88.1	92.5	94.9	95.8	96.1	96.2

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	1114.8	674.2	788.8	889.0	947.6	972.8	980.9	982.2
relative value	100.0	60.5	70.8	79.7	85.0	87.3	88.0	88.1
Others catch(tons)	12580.4	7608.9	8902.1	10032.6	10694.0	10977.8	11069.7	11083.8
relative value	100.0	60.5	70.8	79.7	85.0	87.3	88.0	88.1
Total catch(tons)	13695.2	8283.1	9690.9	10921.7	11641.6	11950.5	12050.6	12066.0
relative value	100.0	60.5	70.8	79.7	85.0	87.3	88.0	88.1

Table 5-2-7-4(6) Changes in the catch of *Pomadasys incisus*

No. 1 (70mm mesh size regulation in Industrial fisheries)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	catch(tons)	25.5	23.3	23.4	23.5	23.5	23.5	23.5	23.5
	relative value	100.0	91.6	92.1	92.3	92.4	92.4	92.4	92.4
Others	catch(tons)	86.5	86.8	87.2	87.4	87.5	87.5	87.5	87.5
	relative value	100.0	100.3	100.9	101.1	101.2	101.2	101.2	101.2
Total	catch(tons)	111.9	110.1	110.7	110.9	111.0	111.0	111.0	111.0
	relative value	100.0	98.3	98.9	99.1	99.2	99.2	99.2	99.2

No. 2 (80mm mesh size regulation in Industrial fisheries)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	catch(tons)	25.5	19.3	19.7	19.8	19.8	19.9	19.9	19.9
	relative value	100.0	75.9	77.2	77.8	78.0	78.0	78.0	78.0
Others	catch(tons)	86.5	87.4	88.7	89.2	89.4	89.4	89.4	89.4
	relative value	100.0	101.1	102.6	103.2	103.4	103.4	103.4	103.4
Total	catch(tons)	111.9	106.7	108.4	109.0	109.2	109.3	109.3	109.3
	relative value	100.0	95.3	96.8	97.4	97.6	97.6	97.7	97.7

No. 3 (to introduce a closed season for Industrial fisheries from October through December)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	catch(tons)	25.5	18.8	19.1	19.1	19.2	19.2	19.2	19.2
	relative value	100.0	73.9	74.8	75.2	75.3	75.3	75.3	75.3
Others	catch(tons)	86.5	88.1	89.2	89.6	89.7	89.7	89.7	89.7
	relative value	100.0	101.8	103.1	103.6	103.7	103.7	103.7	103.7
Total	catch(tons)	111.9	106.9	108.2	108.7	108.8	108.9	108.9	108.9
	relative value	100.0	95.5	96.7	97.1	97.2	97.3	97.3	97.3

No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	catch(tons)	25.5	17.3	17.6	17.7	17.7	17.7	17.7	17.7
	relative value	100.0	67.9	69.1	69.6	69.7	69.7	69.7	69.7
Others	catch(tons)	86.5	88.3	89.7	90.3	90.4	90.5	90.5	90.5
	relative value	100.0	102.1	103.8	104.4	104.6	104.6	104.6	104.6
Total	catch(tons)	111.9	105.5	107.3	108.0	108.2	108.2	108.2	108.2
	relative value	100.0	94.3	95.9	96.5	96.7	96.7	96.7	96.7

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	catch(tons)	25.5	14.4	14.8	15.0	15.0	15.0	15.0	15.0
	relative value	100.0	56.6	58.2	58.8	59.0	59.1	59.1	59.1
Others	catch(tons)	86.5	88.7	90.8	91.6	91.8	91.9	91.9	91.9
	relative value	100.0	102.6	105.0	105.9	106.2	106.2	106.2	106.2
Total	catch(tons)	111.9	103.1	105.6	106.5	106.8	106.9	106.9	106.9
	relative value	100.0	92.1	94.4	95.2	95.5	95.5	95.5	95.5

No. 6 (to introduce a closed period for all fisheries from October through December)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	catch(tons)	25.5	20.2	21.4	21.8	22.0	22.0	22.0	22.0
	relative value	100.0	79.2	83.9	85.7	86.3	86.4	86.4	86.4
Others	catch(tons)	86.5	68.5	72.6	74.1	74.6	74.7	74.7	74.7
	relative value	100.0	79.2	83.9	85.7	86.3	86.4	86.4	86.4
Total	catch(tons)	111.9	88.7	93.9	95.9	96.6	96.7	96.7	96.7
	relative value	100.0	79.2	83.9	85.7	86.3	86.4	86.4	86.4

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	catch(tons)	25.5	23.6	24.2	24.4	24.5	24.6	24.6	24.6
	relative value	100.0	92.6	95.0	96.0	96.4	96.4	96.5	96.5
Others	catch(tons)	86.5	80.1	82.2	83.0	83.3	83.4	83.4	83.4
	relative value	100.0	92.6	95.0	96.0	96.4	96.4	96.5	96.5
Total	catch(tons)	111.9	103.6	106.3	107.5	107.8	108.0	108.0	108.0
	relative value	100.0	92.6	95.0	96.0	96.4	96.4	96.5	96.5

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	catch(tons)	25.5	20.0	21.6	22.3	22.5	22.6	22.6	22.6
	relative value	100.0	78.7	84.9	87.6	88.6	88.8	88.8	88.8
Others	catch(tons)	86.5	68.0	73.4	75.8	76.6	76.8	76.8	76.8
	relative value	100.0	78.7	84.9	87.6	88.6	88.8	88.8	88.8
Total	catch(tons)	111.9	88.1	95.0	98.1	99.1	99.4	99.4	99.4
	relative value	100.0	78.7	84.9	87.6	88.6	88.8	88.8	88.8

Table 5-2-7-4(7) Changes in the catch of *Pseudupeneus prayensis*

No. 1 (70mm mesh size regulation in Industrial fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	183.9	177.7	179.0	179.0	179.0	179.0	179.0	179.0
relative value	100.0	96.6	97.3	97.3	97.3	97.3	97.3	97.3
Others catch(tons)	164.5	172.3	173.5	173.5	173.5	173.5	173.5	173.5
relative value	100.0	104.7	105.5	105.5	105.5	105.5	105.5	105.5
Total catch(tons)	348.4	350.0	352.5	352.5	352.5	352.5	352.5	352.5
relative value	100.0	100.5	101.2	101.2	101.2	101.2	101.2	101.2

No. 2 (80mm mesh size regulation in Industrial fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	183.9	162.2	166.6	166.6	166.6	166.6	166.6	166.6
relative value	100.0	88.2	90.6	90.6	90.6	90.6	90.6	90.6
Others catch(tons)	164.5	185.5	189.5	189.5	189.5	189.5	189.5	189.5
relative value	100.0	112.7	115.2	115.2	115.2	115.2	115.2	115.2
Total catch(tons)	348.4	347.7	356.1	356.1	356.1	356.1	356.1	356.1
relative value	100.0	99.8	102.2	102.2	102.2	102.2	102.2	102.2

No. 3 (to introduce a closed season for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	183.9	172.1	173.2	173.2	173.2	173.2	173.2	173.2
relative value	100.0	93.6	94.2	94.2	94.2	94.2	94.2	94.2
Others catch(tons)	164.5	181.4	182.6	182.6	182.6	182.6	182.6	182.6
relative value	100.0	110.2	111.0	111.0	111.0	111.0	111.0	111.0
Total catch(tons)	348.4	353.5	355.9	355.9	355.9	355.9	355.9	355.9
relative value	100.0	101.5	102.1	102.1	102.1	102.1	102.1	102.1

No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	183.9	167.3	169.3	169.3	169.3	169.3	169.3	169.3
relative value	100.0	91.0	92.1	92.1	92.1	92.1	92.1	92.1
Others catch(tons)	164.5	185.8	188.1	188.1	188.1	188.1	188.1	188.1
relative value	100.0	113.0	114.3	114.3	114.3	114.3	114.3	114.3
Total catch(tons)	348.4	353.1	357.4	357.4	357.4	357.4	357.4	357.4
relative value	100.0	101.4	102.6	102.6	102.6	102.6	102.6	102.6

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	183.9	153.4	157.9	157.9	157.9	157.9	157.9	157.9
relative value	100.0	83.4	85.9	85.9	85.9	85.9	85.9	85.9
Others catch(tons)	164.5	195.5	200.6	200.6	200.6	200.6	200.6	200.6
relative value	100.0	118.8	121.9	121.9	121.9	121.9	121.9	121.9
Total catch(tons)	348.4	348.9	358.4	358.4	358.4	358.4	358.4	358.4
relative value	100.0	100.1	102.9	102.9	102.9	102.9	102.9	102.9

No. 6 (to introduce a closed period for all fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	183.9	189.2	191.7	191.7	191.7	191.7	191.7	191.7
relative value	100.0	102.9	104.2	104.2	104.2	104.2	104.2	104.2
Others catch(tons)	164.5	169.3	171.5	171.5	171.5	171.5	171.5	171.5
relative value	100.0	102.9	104.2	104.2	104.2	104.2	104.2	104.2
Total catch(tons)	348.4	358.4	363.2	363.2	363.2	363.2	363.2	363.2
relative value	100.0	102.9	104.2	104.2	104.2	104.2	104.2	104.2

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	183.9	185.4	188.1	188.1	188.1	188.1	188.1	188.1
relative value	100.0	100.8	102.3	102.3	102.3	102.3	102.3	102.3
Others catch(tons)	164.5	165.9	168.3	168.3	168.3	168.3	168.3	168.3
relative value	100.0	100.8	102.3	102.3	102.3	102.3	102.3	102.3
Total catch(tons)	348.4	351.4	356.3	356.3	356.3	356.3	356.3	356.3
relative value	100.0	100.8	102.3	102.3	102.3	102.3	102.3	102.3

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	183.9	181.9	191.8	191.8	191.8	191.8	191.8	191.8
relative value	100.0	98.9	104.3	104.3	104.3	104.3	104.3	104.3
Others catch(tons)	164.5	162.7	171.6	171.6	171.6	171.6	171.6	171.6
relative value	100.0	98.9	104.3	104.3	104.3	104.3	104.3	104.3
Total catch(tons)	348.4	344.6	363.4	363.4	363.4	363.4	363.4	363.4
relative value	100.0	98.9	104.3	104.3	104.3	104.3	104.3	104.3

Table 5-2-7-4(8) Changes in the catch of *Decapterus rhonchus*

No. 1 (70mm mesh size regulation in Industrial fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	414.0	339.1	344.6	346.9	346.9	346.9	346.9	346.9
relative value	100.0	81.9	83.2	83.8	83.8	83.8	83.8	83.8
Others catch(tons)	2536.0	2608.1	2645.4	2659.4	2659.4	2659.4	2659.4	2659.4
relative value	100.0	102.8	104.3	104.9	104.9	104.9	104.9	104.9
Total catch(tons)	2950.1	2947.2	2990.0	3006.2	3006.2	3006.2	3006.2	3006.2
relative value	100.0	99.9	101.4	101.9	101.9	101.9	101.9	101.9

No. 2 (80mm mesh size regulation in Industrial fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	414.0	266.7	275.0	279.0	279.0	279.0	279.0	279.0
relative value	100.0	64.4	66.4	67.4	67.4	67.4	67.4	67.4
Others catch(tons)	2536.0	2675.1	2744.8	2770.0	2770.0	2770.0	2770.0	2770.0
relative value	100.0	105.5	108.2	109.2	109.2	109.2	109.2	109.2
Total catch(tons)	2950.1	2941.8	3019.8	3049.0	3049.0	3049.0	3049.0	3049.0
relative value	100.0	99.7	102.4	103.4	103.4	103.4	103.4	103.4

No. 3 (to introduce a closed season for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	414.0	393.5	395.0	395.6	395.6	395.6	395.6	395.6
relative value	100.0	95.0	95.4	95.5	95.5	95.5	95.5	95.5
Others catch(tons)	2536.0	2570.9	2580.8	2584.4	2584.4	2584.4	2584.4	2584.4
relative value	100.0	101.4	101.8	101.9	101.9	101.9	101.9	101.9
Total catch(tons)	2950.1	2964.4	2975.8	2980.0	2980.0	2980.0	2980.0	2980.0
relative value	100.0	100.5	100.9	101.0	101.0	101.0	101.0	101.0

No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	414.0	324.6	330.7	333.3	333.3	333.3	333.3	333.3
relative value	100.0	78.4	79.9	80.5	80.5	80.5	80.5	80.5
Others catch(tons)	2536.0	2630.6	2673.9	2690.1	2690.1	2690.1	2690.1	2690.1
relative value	100.0	103.7	105.4	106.1	106.1	106.1	106.1	106.1
Total catch(tons)	2950.1	2955.2	3004.7	3023.3	3023.3	3023.3	3023.3	3023.3
relative value	100.0	100.2	101.9	102.5	102.5	102.5	102.5	102.5

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	414.0	255.7	264.2	268.3	268.3	268.3	268.3	268.3
relative value	100.0	61.8	63.8	64.8	64.8	64.8	64.8	64.8
Others catch(tons)	2536.0	2691.1	2764.9	2791.6	2791.6	2791.6	2791.6	2791.6
relative value	100.0	106.1	109.0	110.1	110.1	110.1	110.1	110.1
Total catch(tons)	2950.1	2946.8	3029.1	3059.9	3059.9	3059.9	3059.9	3059.9
relative value	100.0	99.9	102.7	103.7	103.7	103.7	103.7	103.7

No. 6 (to introduce a closed period for all fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	414.0	429.4	441.8	446.4	446.4	446.4	446.4	446.4
relative value	100.0	103.7	106.7	107.8	107.8	107.8	107.8	107.8
Others catch(tons)	2536.0	2630.2	2706.4	2734.5	2734.5	2734.5	2734.5	2734.5
relative value	100.0	103.7	106.7	107.8	107.8	107.8	107.8	107.8
Total catch(tons)	2950.1	3059.6	3148.2	3180.9	3180.9	3180.9	3180.9	3180.9
relative value	100.0	103.7	106.7	107.8	107.8	107.8	107.8	107.8

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	414.0	404.3	462.8	485.0	485.0	485.0	485.0	485.0
relative value	100.0	97.7	111.8	117.1	117.1	117.1	117.1	117.1
Others catch(tons)	2536.0	2476.5	2834.6	2970.5	2970.5	2970.5	2970.5	2970.5
relative value	100.0	97.7	111.8	117.1	117.1	117.1	117.1	117.1
Total catch(tons)	2950.1	2880.8	3297.4	3455.4	3455.4	3455.4	3455.4	3455.4
relative value	100.0	97.7	111.8	117.1	117.1	117.1	117.1	117.1

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	414.0	377.3	517.6	570.1	570.1	570.1	570.1	570.1
relative value	100.0	91.1	125.0	137.7	137.7	137.7	137.7	137.7
Others catch(tons)	2536.0	2311.0	3170.2	3491.9	3491.9	3491.9	3491.9	3491.9
relative value	100.0	91.1	125.0	137.7	137.7	137.7	137.7	137.7
Total catch(tons)	2950.1	2688.3	3687.8	4061.9	4061.9	4061.9	4061.9	4061.9
relative value	100.0	91.1	125.0	137.7	137.7	137.7	137.7	137.7



Table 5-2-7-4(9) Changes in the catch of *Galeoides decadactylus*

No. 1 (70mm mesh size regulation in Industrial fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	17.4	10.9	10.9	10.9	10.9	10.9	10.9	10.9
relative value	100.0	62.5	62.6	62.7	62.7	62.7	62.7	62.7
Others catch(tons)	1516.3	1524.7	1526.4	1526.5	1526.5	1526.5	1526.5	1526.5
relative value	100.0	100.5	100.7	100.7	100.7	100.7	100.7	100.7
Total catch(tons)	1533.7	1535.5	1537.2	1537.4	1537.4	1537.4	1537.4	1537.4
relative value	100.0	100.1	100.2	100.2	100.2	100.2	100.2	100.2

No. 2 (80mm mesh size regulation in Industrial fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	17.4	6.7	6.7	6.7	6.7	6.7	6.7	6.7
relative value	100.0	38.4	38.6	38.7	38.7	38.7	38.7	38.7
Others catch(tons)	1516.3	1529.1	1532.2	1532.5	1532.5	1532.5	1532.5	1532.5
relative value	100.0	100.8	101.0	101.1	101.1	101.1	101.1	101.1
Total catch(tons)	1533.7	1535.8	1538.9	1539.2	1539.2	1539.2	1539.2	1539.2
relative value	100.0	100.1	100.3	100.4	100.4	100.4	100.4	100.4

No. 3 (to introduce a closed season for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	17.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
relative value	100.0	65.6	65.7	65.7	65.7	65.7	65.7	65.7
Others catch(tons)	1516.3	1524.8	1525.8	1525.9	1525.9	1525.9	1525.9	1525.9
relative value	100.0	100.6	100.6	100.6	100.6	100.6	100.6	100.6
Total catch(tons)	1533.7	1536.2	1537.2	1537.3	1537.3	1537.3	1537.3	1537.3
relative value	100.0	100.2	100.2	100.2	100.2	100.2	100.2	100.2

No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	17.4	8.0	8.0	8.0	8.0	8.0	8.0	8.0
relative value	100.0	45.8	45.9	45.9	45.9	45.9	45.9	45.9
Others catch(tons)	1516.3	1528.5	1530.6	1530.9	1530.9	1530.9	1530.9	1530.9
relative value	100.0	100.8	100.9	101.0	101.0	101.0	101.0	101.0
Total catch(tons)	1533.7	1536.5	1538.6	1538.8	1538.8	1538.8	1538.8	1538.8
relative value	100.0	100.2	100.3	100.3	100.3	100.3	100.3	100.3

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	17.4	5.0	5.0	5.0	5.0	5.0	5.0	5.0
relative value	100.0	28.5	28.6	28.6	28.6	28.6	28.6	28.6
Others catch(tons)	1516.3	1531.3	1534.6	1534.9	1534.9	1534.9	1534.9	1534.9
relative value	100.0	101.0	101.2	101.2	101.2	101.2	101.2	101.2
Total catch(tons)	1533.7	1536.2	1539.6	1539.9	1539.9	1539.9	1539.9	1539.9
relative value	100.0	100.2	100.4	100.4	100.4	100.4	100.4	100.4

No. 6 (to introduce a closed period for all fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	17.4	20.6	22.2	22.4	22.4	22.4	22.4	22.4
relative value	100.0	118.7	127.6	128.8	128.8	128.8	128.8	128.8
Others catch(tons)	1516.3	1799.6	1934.3	1952.6	1952.6	1952.6	1952.6	1952.6
relative value	100.0	118.7	127.6	128.8	128.8	128.8	128.8	128.8
Total catch(tons)	1533.7	1820.3	1956.5	1975.0	1975.0	1975.0	1975.0	1975.0
relative value	100.0	118.7	127.6	128.8	128.8	128.8	128.8	128.8

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	17.4	19.4	22.5	22.8	22.8	22.8	22.8	22.8
relative value	100.0	111.5	129.2	131.2	131.2	131.2	131.2	131.2
Others catch(tons)	1516.3	1690.5	1959.8	1989.1	1989.1	1989.1	1989.1	1989.1
relative value	100.0	111.5	129.2	131.2	131.2	131.2	131.2	131.2
Total catch(tons)	1533.7	1709.9	1982.2	2011.9	2011.9	2011.9	2011.9	2011.9
relative value	100.0	111.5	129.2	131.2	131.2	131.2	131.2	131.2

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	17.4	17.5	27.3	28.4	28.4	28.4	28.4	28.4
relative value	100.0	100.4	156.8	163.6	163.6	163.6	163.6	163.6
Others catch(tons)	1516.3	1522.9	2378.1	2480.4	2480.4	2480.4	2480.4	2480.4
relative value	100.0	100.4	156.8	163.6	163.6	163.6	163.6	163.6
Total catch(tons)	1533.7	1540.3	2405.4	2508.8	2508.8	2508.8	2508.8	2508.8
relative value	100.0	100.4	156.8	163.6	163.6	163.6	163.6	163.6

Table 5-2-7-4(10) Changes in the catch of *Sepia officinalis*

No. 1 (70mm mesh size regulation in Industrial fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	2787.1	2791.4	2869.5	2928.9	2928.9	2928.9	2928.9	2928.9
relative value	100.0	100.2	103.0	105.1	105.1	105.1	105.1	105.1
Others catch(tons)	245.5	247.5	254.4	259.6	259.6	259.6	259.6	259.6
relative value	100.0	100.8	103.6	105.7	105.7	105.7	105.7	105.7
Total catch(tons)	3032.6	3038.9	3123.9	3188.5	3188.5	3188.5	3188.5	3188.5
relative value	100.0	100.2	103.0	105.1	105.1	105.1	105.1	105.1

No. 2 (80mm mesh size regulation in Industrial fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	2787.1	2787.9	2899.8	2984.9	2984.9	2984.9	2984.9	2984.9
relative value	100.0	100.0	104.0	107.1	107.1	107.1	107.1	107.1
Others catch(tons)	245.5	248.3	258.2	265.6	265.6	265.6	265.6	265.6
relative value	100.0	101.1	105.2	108.2	108.2	108.2	108.2	108.2
Total catch(tons)	3032.6	3036.2	3158.0	3250.5	3250.5	3250.5	3250.5	3250.5
relative value	100.0	100.1	104.1	107.2	107.2	107.2	107.2	107.2

No. 3 (to introduce a closed season for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	2787.1	1898.3	2356.6	2608.1	2608.1	2608.1	2608.1	2608.1
relative value	100.0	68.1	84.6	93.6	93.6	93.6	93.6	93.6
Others catch(tons)	245.5	263.6	322.4	352.1	352.1	352.1	352.1	352.1
relative value	100.0	107.4	131.3	143.4	143.4	143.4	143.4	143.4
Total catch(tons)	3032.6	2161.9	2679.0	2960.2	2960.2	2960.2	2960.2	2960.2
relative value	100.0	71.3	88.3	97.6	97.6	97.6	97.6	97.6

No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	2787.1	1884.2	2417.3	2751.5	2751.5	2751.5	2751.5	2751.5
relative value	100.0	67.6	86.7	98.7	98.7	98.7	98.7	98.7
Others catch(tons)	245.5	265.9	335.1	374.5	374.5	374.5	374.5	374.5
relative value	100.0	108.3	136.5	152.6	152.6	152.6	152.6	152.6
Total catch(tons)	3032.6	2150.1	2752.3	3126.0	3126.0	3126.0	3126.0	3126.0
relative value	100.0	70.9	90.8	103.1	103.1	103.1	103.1	103.1

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	2787.1	1873.0	2438.1	2807.6	2807.6	2807.6	2807.6	2807.6
relative value	100.0	67.2	87.5	100.7	100.7	100.7	100.7	100.7
Others catch(tons)	245.5	266.8	340.4	384.1	384.1	384.1	384.1	384.1
relative value	100.0	108.7	138.7	156.4	156.4	156.4	156.4	156.4
Total catch(tons)	3032.6	2139.8	2778.5	3191.7	3191.7	3191.7	3191.7	3191.7
relative value	100.0	70.6	91.6	105.2	105.2	105.2	105.2	105.2

No. 6 (to introduce a closed period for all fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	2787.1	1898.3	2406.2	2690.7	2690.7	2690.7	2690.7	2690.7
relative value	100.0	68.1	86.3	96.5	96.5	96.5	96.5	96.5
Others catch(tons)	245.5	167.2	212.0	237.0	237.0	237.0	237.0	237.0
relative value	100.0	68.1	86.3	96.5	96.5	96.5	96.5	96.5
Total catch(tons)	3032.6	2065.5	2618.2	2927.8	2927.8	2927.8	2927.8	2927.8
relative value	100.0	68.1	86.3	96.5	96.5	96.5	96.5	96.5

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	2787.1	2793.4	2878.7	2943.6	2943.6	2943.6	2943.6	2943.6
relative value	100.0	100.2	103.3	105.6	105.6	105.6	105.6	105.6
Others catch(tons)	245.5	246.1	253.6	259.3	259.3	259.3	259.3	259.3
relative value	100.0	100.2	103.3	105.6	105.6	105.6	105.6	105.6
Total catch(tons)	3032.6	3039.4	3132.3	3202.9	3202.9	3202.9	3202.9	3202.9
relative value	100.0	100.2	103.3	105.6	105.6	105.6	105.6	105.6

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	2787.1	2790.7	2913.2	3006.2	3006.2	3006.2	3006.2	3006.2
relative value	100.0	100.1	104.5	107.9	107.9	107.9	107.9	107.9
Others catch(tons)	245.5	245.8	256.6	264.8	264.8	264.8	264.8	264.8
relative value	100.0	100.1	104.5	107.9	107.9	107.9	107.9	107.9
Total catch(tons)	3032.6	3036.5	3169.8	3271.0	3271.0	3271.0	3271.0	3271.0
relative value	100.0	100.1	104.5	107.9	107.9	107.9	107.9	107.9

Table 5-2-7-5(1-1) Value of gross landing of *Pagellus bellottii*

No. 1 (70mm mesh size regulation in Industrial fisheries) (Unit: million cedi)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	10,526	8,932	9,042	9,112	9,146	9,154	9,154	9,154
	Relative value	100.0	84.9	85.9	86.6	86.9	87.0	87.0	87.0
	Gap with present state	0	-1,594	-1,484	-1,414	-1,379	-1,372	-1,372	-1,372
	Accumulated gap	0	-1,594	-3,078	-4,492	-5,871	-7,242	-8,614	-9,986
Others	Value of gross landing	93,134	94,009	95,112	95,741	96,046	96,114	96,114	96,114
	Relative value	100.0	100.9	102.1	102.8	103.1	103.2	103.2	103.2
	Gap with present state	0	874	1,978	2,607	2,912	2,980	2,980	2,980
	Accumulated gap	0	874	2,852	5,458	8,370	11,350	14,330	17,310
Total	Value of gross landing	103,660	102,940	104,154	104,853	105,193	105,268	105,268	105,268
	Relative value	100.0	99.3	100.5	101.2	101.5	101.6	101.6	101.6
	Gap with present state	0	-720	494	1,193	1,533	1,608	1,608	1,608
	Accumulated gap	0	-720	-226	967	2,499	4,108	5,716	7,325

No. 2 (80mm mesh size regulation in Industrial fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	10,526	6,936	7,131	7,267	7,333	7,343	7,343	7,343
	Relative value	100.0	65.9	67.8	69.0	69.7	69.8	69.8	69.8
	Gap with present state	0	-3,590	-3,394	-3,258	-3,193	-3,183	-3,183	-3,183
	Accumulated gap	0	-3,590	-6,984	-10,242	-13,435	-16,618	-19,801	-22,983
Others	Value of gross landing	93,134	95,036	97,311	98,574	99,154	99,246	99,246	99,246
	Relative value	100.0	102.0	104.5	105.8	106.5	106.6	106.6	106.6
	Gap with present state	0	1,902	4,177	5,440	6,020	6,112	6,112	6,112
	Accumulated gap	0	1,902	6,079	11,518	17,538	23,650	29,762	35,874
Total	Value of gross landing	103,660	101,972	104,443	105,842	106,487	106,589	106,589	106,589
	Relative value	100.0	98.4	100.8	102.1	102.7	102.8	102.8	102.8
	Gap with present state	0	-1,688	783	2,182	2,827	2,929	2,929	2,929
	Accumulated gap	0	-1,688	-905	1,276	4,103	7,032	9,961	12,890

No. 3 (to introduce a closed season for Industrial fisheries from October through December)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	10,526	7,735	7,839	7,889	7,907	7,910	7,910	7,910
	Relative value	100.0	73.5	74.5	75.0	75.1	75.1	75.1	75.1
	Gap with present state	0	-2,791	-2,686	-2,636	-2,618	-2,616	-2,616	-2,616
	Accumulated gap	0	-2,791	-5,477	-8,114	-10,732	-13,348	-15,964	-18,579
Others	Value of gross landing	93,134	94,851	96,145	96,759	96,985	97,015	97,015	97,015
	Relative value	100.0	101.8	103.2	103.9	104.1	104.2	104.2	104.2
	Gap with present state	0	1,717	3,010	3,625	3,851	3,881	3,881	3,881
	Accumulated gap	0	1,717	4,727	8,352	12,202	16,083	19,965	23,846
Total	Value of gross landing	103,660	102,586	103,984	104,648	104,892	104,925	104,925	104,925
	Relative value	100.0	99.0	100.3	101.0	101.2	101.2	101.2	101.2
	Gap with present state	0	-1,074	324	988	1,232	1,265	1,265	1,265
	Accumulated gap	0	-1,074	-750	238	1,471	2,736	4,001	5,266

No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	10,526	6,627	6,785	6,871	6,908	6,915	6,915	6,915
	Relative value	100.0	63.0	64.5	65.3	65.6	65.7	65.7	65.7
	Gap with present state	0	-3,899	-3,741	-3,654	-3,618	-3,611	-3,611	-3,611
	Accumulated gap	0	-3,899	-7,640	-11,294	-14,912	-18,523	-22,134	-25,745
Others	Value of gross landing	93,134	95,444	97,532	98,611	99,066	99,149	99,149	99,149
	Relative value	100.0	102.5	104.7	105.9	106.4	106.5	106.5	106.5
	Gap with present state	0	2,310	4,398	5,476	5,932	6,015	6,015	6,015
	Accumulated gap	0	2,310	6,707	12,184	18,115	24,130	30,144	36,159
Total	Value of gross landing	103,660	102,071	104,317	105,482	105,974	106,064	106,064	106,064
	Relative value	100.0	98.5	100.6	101.8	102.2	102.3	102.3	102.3
	Gap with present state	0	-1,589	657	1,822	2,314	2,404	2,404	2,404
	Accumulated gap	0	-1,589	-932	890	3,204	5,607	8,011	10,414

Table 5-2-7-5(1-2) Value of gross landing of *Pagellus bellottii*

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

(Unit: million cedi)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	10,526	5,207	5,403	5,524	5,578	5,587	5,587	5,587
	Relative value	100.0	49.5	51.3	52.5	53.0	53.1	53.1	53.1
	Gap with present state	0	-5,318	-5,123	-5,001	-4,947	-4,939	-4,939	-4,939
	Accumulated gap	0	-5,318	-10,441	-15,442	-20,390	-25,329	-30,268	-35,207
Others	Value of gross landing	93,134	96,101	99,071	100,637	101,310	101,412	101,412	101,412
	Relative value	100.0	103.2	106.4	108.1	108.8	108.9	108.9	108.9
	Gap with present state	0	2,967	5,936	7,503	8,175	8,277	8,277	8,277
	Accumulated gap	0	2,967	8,903	16,406	24,581	32,858	41,135	49,413
Total	Value of gross landing	103,660	101,308	104,473	106,162	106,888	106,998	106,998	106,998
	Relative value	100.0	97.7	100.8	102.4	103.1	103.2	103.2	103.2
	Gap with present state	0	-2,352	813	2,502	3,228	3,338	3,338	3,338
	Accumulated gap	0	-2,352	-1,539	963	4,191	7,530	10,868	14,206

No. 6 (to introduce a closed period for all fisheries from October through December)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	10,526	9,307	10,708	11,518	11,878	11,933	11,933	11,933
	Relative value	100.0	88.4	101.7	109.4	112.9	113.4	113.4	113.4
	Gap with present state	0	-1,219	182	992	1,353	1,408	1,408	1,408
	Accumulated gap	0	-1,219	-1,036	-44	1,308	2,716	4,124	5,532
Others	Value of gross landing	93,134	82,351	94,748	101,913	105,103	105,591	105,591	105,591
	Relative value	100.0	88.4	101.7	109.4	112.9	113.4	113.4	113.4
	Gap with present state	0	-10,783	1,614	8,778	11,969	12,457	12,457	12,457
	Accumulated gap	0	-10,783	-9,169	-391	11,577	24,034	36,491	48,948
Total	Value of gross landing	103,660	91,658	105,456	113,430	116,981	117,525	117,525	117,525
	Relative value	100.0	88.4	101.7	109.4	112.9	113.4	113.4	113.4
	Gap with present state	0	-12,002	1,796	9,770	13,321	13,865	13,865	13,865
	Accumulated gap	0	-12,002	-10,206	-435	12,886	26,751	40,616	54,480

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	10,526	9,706	10,997	11,850	12,273	12,374	12,374	12,374
	Relative value	100.0	92.2	104.5	112.6	116.6	117.6	117.6	117.6
	Gap with present state	0	-820	471	1,325	1,748	1,848	1,848	1,848
	Accumulated gap	0	-820	-349	978	2,723	4,572	6,420	8,269
Others	Value of gross landing	93,134	85,879	97,301	104,855	108,597	109,490	109,490	109,490
	Relative value	100.0	92.2	104.5	112.6	116.6	117.6	117.6	117.6
	Gap with present state	0	-7,255	4,167	11,721	15,463	16,356	16,356	16,356
	Accumulated gap	0	-7,255	-3,088	8,633	24,095	40,451	56,807	73,163
Total	Value of gross landing	103,660	95,585	108,298	116,705	120,870	121,864	121,864	121,864
	Relative value	100.0	92.2	104.5	112.6	116.6	117.6	117.6	117.6
	Gap with present state	0	-8,075	4,638	13,045	17,210	18,204	18,204	18,204
	Accumulated gap	0	-8,075	-3,437	9,608	26,818	45,023	63,227	81,432

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	10,526	8,193	11,050	13,235	14,331	14,537	14,537	14,537
	Relative value	100.0	77.8	105.0	125.7	136.2	138.1	138.1	138.1
	Gap with present state	0	-2,333	524	2,709	3,805	4,011	4,011	4,011
	Accumulated gap	0	-2,333	-1,809	900	4,705	8,717	12,728	16,739
Others	Value of gross landing	93,134	72,491	97,774	117,104	126,804	128,627	128,627	128,627
	Relative value	100.0	77.8	105.0	125.7	136.2	138.1	138.1	138.1
	Gap with present state	0	-20,643	4,640	23,970	33,669	35,492	35,492	35,492
	Accumulated gap	0	-20,643	-16,003	7,966	41,636	77,128	112,620	148,112
Total	Value of gross landing	103,660	80,684	108,824	130,338	141,135	143,163	143,163	143,163
	Relative value	100.0	77.8	105.0	125.7	136.2	138.1	138.1	138.1
	Gap with present state	0	-22,976	5,164	26,678	37,475	39,503	39,503	39,503
	Accumulated gap	0	-22,976	-17,812	8,867	46,341	85,845	125,348	164,851

Table 5-2-7-5(2-1) Value of gross landing of *Dentex canariensis*

No. 1 (70mm mesh size regulation in Industrial fisheries) (Unit: million cedi)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	4,338	4,305	4,342	4,369	4,384	4,391	4,391	4,391
	Relative value	100.0	99.2	100.1	100.7	101.1	101.2	101.2	101.2
	Gap with present state	0	-33	4	31	46	52	52	52
	Accumulated gap	0	-33	-29	2	47	100	152	204
Others	Value of gross landing	10,723	10,743	10,833	10,901	10,937	10,953	10,953	10,953
	Relative value	100.0	100.2	101.0	101.7	102.0	102.2	102.2	102.2
	Gap with present state	0	20	110	179	215	231	231	231
	Accumulated gap	0	20	130	309	524	754	985	1,216
Total	Value of gross landing	15,061	15,048	15,175	15,271	15,321	15,344	15,344	15,344
	Relative value	100.0	99.9	100.8	101.4	101.7	101.9	101.9	101.9
	Gap with present state	0	-13	114	210	260	283	283	283
	Accumulated gap	0	-13	101	311	571	854	1,137	1,420

No. 2 (80mm mesh size regulation in Industrial fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	4,338	4,237	4,321	4,384	4,417	4,432	4,432	4,432
	Relative value	100.0	97.7	99.6	101.0	101.8	102.2	102.2	102.2
	Gap with present state	0	-101	-18	45	79	94	94	94
	Accumulated gap	0	-101	-119	-73	5	99	192	286
Others	Value of gross landing	10,723	10,784	10,970	11,126	11,208	11,245	11,245	11,245
	Relative value	100.0	100.4	102.3	103.8	104.5	104.9	104.9	104.9
	Gap with present state	0	41	248	403	485	522	522	522
	Accumulated gap	0	41	289	692	1,177	1,699	2,222	2,744
Total	Value of gross landing	15,061	15,001	15,291	15,510	15,624	15,676	15,676	15,676
	Relative value	100.0	99.6	101.5	103.0	103.7	104.1	104.1	104.1
	Gap with present state	0	-60	230	449	564	616	616	616
	Accumulated gap	0	-60	170	619	1,183	1,798	2,414	3,030

No. 3 (to introduce a closed season for Industrial fisheries from October through December)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	4,338	3,868	3,955	4,001	4,021	4,026	4,026	4,026
	Relative value	100.0	89.2	91.2	92.2	92.7	92.8	92.8	92.8
	Gap with present state	0	-470	-384	-337	-318	-312	-312	-312
	Accumulated gap	0	-470	-854	-1,191	-1,508	-1,821	-2,133	-2,446
Others	Value of gross landing	10,723	11,033	11,284	11,421	11,478	11,494	11,494	11,494
	Relative value	100.0	102.9	105.2	106.5	107.0	107.2	107.2	107.2
	Gap with present state	0	311	561	699	756	771	771	771
	Accumulated gap	0	311	872	1,570	2,326	3,097	3,869	4,640
Total	Value of gross landing	15,061	14,901	15,238	15,422	15,499	15,520	15,520	15,520
	Relative value	100.0	98.9	101.2	102.4	102.9	103.0	103.0	103.0
	Gap with present state	0	-160	178	362	438	459	459	459
	Accumulated gap	0	-160	18	379	818	1,277	1,735	2,194

No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	4,338	3,850	3,953	4,011	4,037	4,045	4,045	4,045
	Relative value	100.0	88.8	91.1	92.5	93.1	93.2	93.2	93.2
	Gap with present state	0	-488	-385	-327	-301	-293	-293	-293
	Accumulated gap	0	-488	-873	-1,200	-1,501	-1,794	-2,088	-2,381
Others	Value of gross landing	10,723	11,042	11,337	11,508	11,584	11,608	11,608	11,608
	Relative value	100.0	103.0	105.7	107.3	108.0	108.3	108.3	108.3
	Gap with present state	0	320	614	786	861	885	885	885
	Accumulated gap	0	320	934	1,719	2,581	3,466	4,351	5,236
Total	Value of gross landing	15,061	14,893	15,290	15,520	15,621	15,653	15,653	15,653
	Relative value	100.0	98.9	101.5	103.0	103.7	103.9	103.9	103.9
	Gap with present state	0	-168	229	459	560	592	592	592
	Accumulated gap	0	-168	61	519	1,079	1,671	2,263	2,856

Table 5-2-7-5(2-2) Value of gross landing of *Dentex canariensis*

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

(Unit: million cedi)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	4,338	3,790	3,928	4,012	4,051	4,066	4,066	4,066
	Relative value	100.0	87.4	90.5	92.5	93.4	93.7	93.7	93.7
	Gap with present state	0	-548	-411	-326	-287	-272	-272	-272
	Accumulated gap	0	-548	-959	-1,285	-1,572	-1,844	-2,117	-2,389
Others	Value of gross landing	10,723	11,058	11,450	11,698	11,814	11,857	11,857	11,857
	Relative value	100.0	103.1	106.8	109.1	110.2	110.6	110.6	110.6
	Gap with present state	0	336	728	975	1,092	1,135	1,135	1,135
	Accumulated gap	0	336	1,064	2,039	3,130	4,265	5,400	6,534
Total	Value of gross landing	15,061	14,849	15,378	15,710	15,866	15,923	15,923	15,923
	Relative value	100.0	98.6	102.1	104.3	105.3	105.7	105.7	105.7
	Gap with present state	0	-212	317	649	805	862	862	862
	Accumulated gap	0	-212	105	754	1,559	2,421	3,283	4,145

No. 6 (to introduce a closed period for all fisheries from October through December)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	4,338	4,171	4,509	4,704	4,791	4,815	4,815	4,815
	Relative value	100.0	96.2	103.9	108.4	110.4	111.0	111.0	111.0
	Gap with present state	0	-167	171	366	453	477	477	477
	Accumulated gap	0	-167	4	370	822	1,300	1,777	2,254
Others	Value of gross landing	10,723	10,310	11,145	11,627	11,841	11,902	11,902	11,902
	Relative value	100.0	96.2	103.9	108.4	110.4	111.0	111.0	111.0
	Gap with present state	0	-413	422	904	1,119	1,179	1,179	1,179
	Accumulated gap	0	-413	10	914	2,033	3,212	4,392	5,571
Total	Value of gross landing	15,061	14,481	15,654	16,331	16,632	16,717	16,717	16,717
	Relative value	100.0	96.2	103.9	108.4	110.4	111.0	111.0	111.0
	Gap with present state	0	-579	593	1,270	1,571	1,657	1,657	1,657
	Accumulated gap	0	-579	14	1,284	2,855	4,512	6,168	7,825

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	4,338	4,325	4,455	4,554	4,606	4,629	4,629	4,629
	Relative value	100.0	99.7	102.7	105.0	106.2	106.7	106.7	106.7
	Gap with present state	0	-14	117	216	268	291	291	291
	Accumulated gap	0	-14	103	319	587	878	1,169	1,460
Others	Value of gross landing	10,723	10,689	11,012	11,256	11,384	11,442	11,442	11,442
	Relative value	100.0	99.7	102.7	105.0	106.2	106.7	106.7	106.7
	Gap with present state	0	-34	289	533	661	719	719	719
	Accumulated gap	0	-34	255	789	1,450	2,169	2,889	3,608
Total	Value of gross landing	15,061	15,013	15,467	15,810	15,990	16,071	16,071	16,071
	Relative value	100.0	99.7	102.7	105.0	106.2	106.7	106.7	106.7
	Gap with present state	0	-48	406	749	929	1,010	1,010	1,010
	Accumulated gap	0	-48	359	1,108	2,037	3,047	4,057	5,068

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	4,338	4,273	4,582	4,815	4,938	4,993	4,993	4,993
	Relative value	100.0	98.5	105.6	111.0	113.8	115.1	115.1	115.1
	Gap with present state	0	-66	244	477	600	655	655	655
	Accumulated gap	0	-66	178	655	1,255	1,910	2,565	3,220
Others	Value of gross landing	10,723	10,560	11,325	11,902	12,205	12,342	12,342	12,342
	Relative value	100.0	98.5	105.6	111.0	113.8	115.1	115.1	115.1
	Gap with present state	0	-162	602	1,180	1,482	1,619	1,619	1,619
	Accumulated gap	0	-162	440	1,619	3,101	4,721	6,340	7,959
Total	Value of gross landing	15,061	14,833	15,907	16,718	17,142	17,335	17,335	17,335
	Relative value	100.0	98.5	105.6	111.0	113.8	115.1	115.1	115.1
	Gap with present state	0	-228	846	1,657	2,082	2,274	2,274	2,274
	Accumulated gap	0	-228	618	2,275	4,356	6,630	8,905	11,179

Table 5-2-7-5(3-1) Value of gross landing of *Sparus caeruleostictus*

No. 1 (70mm mesh size regulation in Industrial fisheries)

(Unit: million cedi)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	5,670	5,614	5,668	5,686	5,686	5,686	5,686	5,686
	Relative value	100.0	99.0	100.0	100.3	100.3	100.3	100.3	100.3
	Gap with present state	0	-57	-2	15	15	15	15	15
	Accumulated gap	0	-57	-59	-44	-29	-14	2	17
Others	Value of gross landing	14,015	14,279	14,413	14,456	14,456	14,456	14,456	14,456
	Relative value	100.0	101.9	102.8	103.1	103.1	103.1	103.1	103.1
	Gap with present state	0	263	398	441	441	441	441	441
	Accumulated gap	0	263	661	1,102	1,543	1,984	2,425	2,866
Total	Value of gross landing	19,686	19,892	20,082	20,142	20,142	20,142	20,142	20,142
	Relative value	100.0	101.0	102.0	102.3	102.3	102.3	102.3	102.3
	Gap with present state	0	207	396	456	456	456	456	456
	Accumulated gap	0	207	602	1,058	1,514	1,971	2,427	2,883

No. 2 (80mm mesh size regulation in Industrial fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	5,670	5,470	5,590	5,628	5,628	5,628	5,628	5,628
	Relative value	100.0	96.5	98.6	99.3	99.3	99.3	99.3	99.3
	Gap with present state	0	-201	-81	-42	-42	-42	-42	-42
	Accumulated gap	0	-201	-281	-324	-366	-408	-450	-492
Others	Value of gross landing	14,015	14,552	14,849	14,943	14,943	14,943	14,943	14,943
	Relative value	100.0	103.8	105.9	106.6	106.6	106.6	106.6	106.6
	Gap with present state	0	536	833	928	928	928	928	928
	Accumulated gap	0	536	1,370	2,298	3,226	4,154	5,081	6,009
Total	Value of gross landing	19,686	20,022	20,438	20,572	20,572	20,572	20,572	20,572
	Relative value	100.0	101.7	103.8	104.5	104.5	104.5	104.5	104.5
	Gap with present state	0	336	753	886	886	886	886	886
	Accumulated gap	0	336	1,088	1,974	2,860	3,746	4,631	5,517

No. 3 (to introduce a closed season for Industrial fisheries from October through December)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	5,670	5,199	5,279	5,298	5,298	5,298	5,298	5,298
	Relative value	100.0	91.7	93.1	93.4	93.4	93.4	93.4	93.4
	Gap with present state	0	-471	-391	-372	-372	-372	-372	-372
	Accumulated gap	0	-471	-863	-1,235	-1,607	-1,980	-2,352	-2,725
Others	Value of gross landing	14,015	14,770	15,007	15,066	15,066	15,066	15,066	15,066
	Relative value	100.0	105.4	107.1	107.5	107.5	107.5	107.5	107.5
	Gap with present state	0	755	991	1,050	1,050	1,050	1,050	1,050
	Accumulated gap	0	755	1,746	2,797	3,847	4,897	5,947	6,998
Total	Value of gross landing	19,686	19,970	20,286	20,364	20,364	20,364	20,364	20,364
	Relative value	100.0	101.4	103.0	103.4	103.4	103.4	103.4	103.4
	Gap with present state	0	284	600	678	678	678	678	678
	Accumulated gap	0	284	884	1,562	2,239	2,917	3,595	4,273

No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	5,670	5,171	5,274	5,300	5,300	5,300	5,300	5,300
	Relative value	100.0	91.2	93.0	93.5	93.5	93.5	93.5	93.5
	Gap with present state	0	-499	-396	-370	-370	-370	-370	-370
	Accumulated gap	0	-499	-896	-1,266	-1,637	-2,007	-2,378	-2,748
Others	Value of gross landing	14,015	14,891	15,195	15,276	15,276	15,276	15,276	15,276
	Relative value	100.0	106.2	108.4	109.0	109.0	109.0	109.0	109.0
	Gap with present state	0	876	1,179	1,260	1,260	1,260	1,260	1,260
	Accumulated gap	0	876	2,055	3,316	4,576	5,836	7,096	8,356
Total	Value of gross landing	19,686	20,062	20,469	20,576	20,576	20,576	20,576	20,576
	Relative value	100.0	101.9	104.0	104.5	104.5	104.5	104.5	104.5
	Gap with present state	0	376	783	890	890	890	890	890
	Accumulated gap	0	376	1,160	2,049	2,939	3,829	4,719	5,608

Table 5-2-7-5(3-2) Value of gross landing of *Sparus caeruleostictus*

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

(Unit: million cedi)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	5,670	5,053	5,195	5,233	5,233	5,233	5,233	5,233
	Relative value	100.0	89.1	91.6	92.3	92.3	92.3	92.3	92.3
	Gap with present state	0	-617	-476	-438	-438	-438	-438	-438
	Accumulated gap	0	-617	-1,093	-1,531	-1,968	-2,406	-2,844	-3,281
Others	Value of gross landing	14,015	15,055	15,471	15,589	15,589	15,589	15,589	15,589
	Relative value	100.0	107.4	110.4	111.2	111.2	111.2	111.2	111.2
	Gap with present state	0	1,039	1,456	1,573	1,573	1,573	1,573	1,573
	Accumulated gap	0	1,039	2,495	4,068	5,642	7,215	8,788	10,362
Total	Value of gross landing	19,686	20,108	20,666	20,822	20,822	20,822	20,822	20,822
	Relative value	100.0	102.1	105.0	105.8	105.8	105.8	105.8	105.8
	Gap with present state	0	422	980	1,136	1,136	1,136	1,136	1,136
	Accumulated gap	0	422	1,402	2,538	3,674	4,809	5,945	7,081

No. 6 (to introduce a closed period for all fisheries from October through December)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	5,670	5,974	6,316	6,403	6,403	6,403	6,403	6,403
	Relative value	100.0	105.3	111.4	112.9	112.9	112.9	112.9	112.9
	Gap with present state	0	303	646	732	732	732	732	732
	Accumulated gap	0	303	949	1,681	2,414	3,146	3,878	4,611
Others	Value of gross landing	14,015	14,764	15,611	15,826	15,826	15,826	15,826	15,826
	Relative value	100.0	105.3	111.4	112.9	112.9	112.9	112.9	112.9
	Gap with present state	0	749	1,596	1,810	1,810	1,810	1,810	1,810
	Accumulated gap	0	749	2,345	4,155	5,965	7,776	9,586	11,396
Total	Value of gross landing	19,686	20,738	21,928	22,229	22,229	22,229	22,229	22,229
	Relative value	100.0	105.3	111.4	112.9	112.9	112.9	112.9	112.9
	Gap with present state	0	1,052	2,242	2,543	2,543	2,543	2,543	2,543
	Accumulated gap	0	1,052	3,294	5,836	8,379	10,922	13,464	16,007

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	5,670	5,887	6,087	6,151	6,151	6,151	6,151	6,151
	Relative value	100.0	103.8	107.4	108.5	108.5	108.5	108.5	108.5
	Gap with present state	0	216	417	481	481	481	481	481
	Accumulated gap	0	216	633	1,114	1,595	2,076	2,557	3,038
Others	Value of gross landing	14,015	14,550	15,046	15,204	15,204	15,204	15,204	15,204
	Relative value	100.0	103.8	107.4	108.5	108.5	108.5	108.5	108.5
	Gap with present state	0	535	1,030	1,189	1,189	1,189	1,189	1,189
	Accumulated gap	0	535	1,565	2,754	3,943	5,132	6,321	7,510
Total	Value of gross landing	19,686	20,437	21,133	21,356	21,356	21,356	21,356	21,356
	Relative value	100.0	103.8	107.4	108.5	108.5	108.5	108.5	108.5
	Gap with present state	0	751	1,447	1,670	1,670	1,670	1,670	1,670
	Accumulated gap	0	751	2,199	3,868	5,538	7,208	8,878	10,548

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	5,670	6,033	6,507	6,658	6,658	6,658	6,658	6,658
	Relative value	100.0	106.4	114.8	117.4	117.4	117.4	117.4	117.4
	Gap with present state	0	363	837	988	988	988	988	988
	Accumulated gap	0	363	1,199	2,187	3,175	4,163	5,151	6,139
Others	Value of gross landing	14,015	14,912	16,083	16,457	16,457	16,457	16,457	16,457
	Relative value	100.0	106.4	114.8	117.4	117.4	117.4	117.4	117.4
	Gap with present state	0	897	2,068	2,442	2,442	2,442	2,442	2,442
	Accumulated gap	0	897	2,964	5,406	7,848	10,290	12,732	15,174
Total	Value of gross landing	19,686	20,945	22,590	23,116	23,116	23,116	23,116	23,116
	Relative value	100.0	106.4	114.8	117.4	117.4	117.4	117.4	117.4
	Gap with present state	0	1,260	2,904	3,430	3,430	3,430	3,430	3,430
	Accumulated gap	0	1,260	4,164	7,594	11,023	14,453	17,883	21,313



Table 5-2-7-5(4-1) Value of gross landing of *Pseudolithus senegalensis*

No. 1 (70mm mesh size regulation in Industrial fisheries) (Unit: million cedi)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	3,319	3,319	3,319	3,319	3,319	3,319	3,319	3,319
	Relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Gap with present state	0	0	0	0	0	0	0	0
	Accumulated gap	0	0	0	0	0	0	0	0
Others	Value of gross landing	23,901	23,901	23,901	23,901	23,901	23,901	23,901	23,901
	Relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Gap with present state	0	0	0	0	0	0	0	0
	Accumulated gap	0	0	0	0	0	0	0	0
Total	Value of gross landing	27,220	27,220	27,220	27,220	27,220	27,220	27,220	27,220
	Relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Gap with present state	0	0	0	0	0	0	0	0
	Accumulated gap	0	0	0	0	0	0	0	0

No. 2 (80mm mesh size regulation in Industrial fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	3,319	3,319	3,319	3,319	3,319	3,319	3,319	3,319
	Relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Gap with present state	0	0	0	0	0	0	0	0
	Accumulated gap	0	0	0	0	0	0	0	0
Others	Value of gross landing	23,901	23,901	23,901	23,901	23,901	23,901	23,901	23,901
	Relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Gap with present state	0	0	0	0	0	0	0	0
	Accumulated gap	0	0	0	0	0	0	0	0
Total	Value of gross landing	27,220	27,220	27,220	27,220	27,220	27,220	27,220	27,220
	Relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Gap with present state	0	0	0	0	0	0	0	0
	Accumulated gap	0	0	0	0	0	0	0	0

No. 3 (to introduce a closed season for Industrial fisheries from October through December)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	3,319	2,579	2,610	2,622	2,625	2,626	2,626	2,626
	Relative value	100.0	77.7	78.6	79.0	79.1	79.1	79.1	79.1
	Gap with present state	0	-740	-709	-697	-694	-693	-693	-693
	Accumulated gap	0	-740	-1,449	-2,146	-2,840	-3,533	-4,226	-4,919
Others	Value of gross landing	23,901	24,404	24,698	24,814	24,849	24,855	24,855	24,855
	Relative value	100.0	102.1	103.3	103.8	104.0	104.0	104.0	104.0
	Gap with present state	0	502	797	913	947	953	954	954
	Accumulated gap	0	502	1,299	2,212	3,159	4,113	5,067	6,021
Total	Value of gross landing	27,220	26,983	27,308	27,436	27,474	27,481	27,481	27,481
	Relative value	100.0	99.1	100.3	100.8	100.9	101.0	101.0	101.0
	Gap with present state	0	-237	88	215	254	260	261	261
	Accumulated gap	0	-237	-150	66	320	580	841	1,102

No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	3,319	2,579	2,610	2,622	2,625	2,626	2,626	2,626
	Relative value	100.0	77.7	78.6	79.0	79.1	79.1	79.1	79.1
	Gap with present state	0	-740	-709	-697	-694	-693	-693	-693
	Accumulated gap	0	-740	-1,449	-2,146	-2,840	-3,533	-4,226	-4,919
Others	Value of gross landing	23,901	24,404	24,698	24,814	24,849	24,855	24,855	24,855
	Relative value	100.0	102.1	103.3	103.8	104.0	104.0	104.0	104.0
	Gap with present state	0	502	797	913	947	953	954	954
	Accumulated gap	0	502	1,299	2,212	3,159	4,113	5,067	6,021
Total	Value of gross landing	27,220	26,983	27,308	27,436	27,474	27,481	27,481	27,481
	Relative value	100.0	99.1	100.3	100.8	100.9	101.0	101.0	101.0
	Gap with present state	0	-237	88	215	254	260	261	261
	Accumulated gap	0	-237	-150	66	320	580	841	1,102

Table 5-2-7-5(4-2) Value of gross landing of *Pseudolithus senegalensis*

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

(Unit: million cedi)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	3,319	2,579	2,610	2,622	2,625	2,626	2,626	2,626
	Relative value	100.0	77.7	78.6	79.0	79.1	79.1	79.1	79.1
	Gap with present state	0	-740	-709	-697	-694	-693	-693	-693
	Accumulated gap	0	-740	-1,449	-2,146	-2,840	-3,533	-4,226	-4,919
Others	Value of gross landing	23,901	24,404	24,698	24,814	24,849	24,855	24,855	24,855
	Relative value	100.0	102.1	103.3	103.8	104.0	104.0	104.0	104.0
	Gap with present state	0	502	797	913	947	953	954	954
	Accumulated gap	0	502	1,299	2,212	3,159	4,113	5,067	6,021
Total	Value of gross landing	27,220	26,983	27,308	27,436	27,474	27,481	27,481	27,481
	Relative value	100.0	99.1	100.3	100.8	100.9	101.0	101.0	101.0
	Gap with present state	0	-237	88	215	254	260	261	261
	Accumulated gap	0	-237	-150	66	320	580	841	1,102

No. 6 (to introduce a closed period for all fisheries from October through December)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	3,319	3,060	3,382	3,528	3,579	3,589	3,590	3,590
	Relative value	100.0	92.2	101.9	106.3	107.8	108.1	108.2	108.2
	Gap with present state	0	-259	63	209	260	270	271	271
	Accumulated gap	0	-259	-196	13	273	542	813	1,084
Others	Value of gross landing	23,901	22,035	24,355	25,406	25,772	25,842	25,850	25,850
	Relative value	100.0	92.2	101.9	106.3	107.8	108.1	108.2	108.2
	Gap with present state	0	-1,866	454	1,505	1,871	1,941	1,949	1,949
	Accumulated gap	0	-1,866	-1,411	94	1,965	3,906	5,855	7,804
Total	Value of gross landing	27,220	25,095	27,738	28,935	29,351	29,431	29,440	29,440
	Relative value	100.0	92.2	101.9	106.3	107.8	108.1	108.2	108.2
	Gap with present state	0	-2,125	517	1,714	2,131	2,211	2,220	2,220
	Accumulated gap	0	-2,125	-1,607	107	2,238	4,449	6,668	8,888

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	3,319	3,319	3,319	3,319	3,319	3,319	3,319	3,319
	Relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Gap with present state	0	0	0	0	0	0	0	0
	Accumulated gap	0	0	0	0	0	0	0	0
Others	Value of gross landing	23,901	23,901	23,901	23,901	23,901	23,901	23,901	23,901
	Relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Gap with present state	0	0	0	0	0	0	0	0
	Accumulated gap	0	0	0	0	0	0	0	0
Total	Value of gross landing	27,220	27,220	27,220	27,220	27,220	27,220	27,220	27,220
	Relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Gap with present state	0	0	0	0	0	0	0	0
	Accumulated gap	0	0	0	0	0	0	0	0

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	3,319	3,319	3,319	3,319	3,319	3,319	3,319	3,319
	Relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Gap with present state	0	0	0	0	0	0	0	0
	Accumulated gap	0	0	0	0	0	0	0	0
Others	Value of gross landing	23,901	23,901	23,901	23,901	23,901	23,901	23,901	23,901
	Relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Gap with present state	0	0	0	0	0	0	0	0
	Accumulated gap	0	0	0	0	0	0	0	0
Total	Value of gross landing	27,220	27,220	27,220	27,220	27,220	27,220	27,220	27,220
	Relative value	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Gap with present state	0	0	0	0	0	0	0	0
	Accumulated gap	0	0	0	0	0	0	0	0

Table 5-2-7-5(5-1) Value of gross landing of *Brachydeuterus auritus*

No. 1 (70mm mesh size regulation in Industrial fisheries)		(Unit: million cedi)							
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	9,350	7,681	7,718	7,749	7,766	7,773	7,775	7,775
	Relative value	100.0	82.1	82.5	82.9	83.1	83.1	83.2	83.2
	Gap with present state	0	-1,669	-1,633	-1,602	-1,585	-1,578	-1,575	-1,575
	Accumulated gap	0	-1,669	-3,302	-4,903	-6,488	-8,065	-9,641	-11,216
Others	Value of gross landing	105,519	105,745	106,226	106,603	106,800	106,879	106,906	106,911
	Relative value	100.0	100.2	100.7	101.0	101.2	101.3	101.3	101.3
	Gap with present state	0	226	707	1,083	1,281	1,360	1,387	1,392
	Accumulated gap	0	226	932	2,016	3,297	4,657	6,044	7,436
Total	Value of gross landing	114,869	113,426	113,944	114,351	114,566	114,652	114,681	114,687
	Relative value	100.0	98.7	99.2	99.5	99.7	99.8	99.8	99.8
	Gap with present state	0	-1,444	-926	-518	-304	-217	-188	-183
	Accumulated gap	0	-1,444	-2,369	-2,887	-3,181	-3,409	-3,597	-3,779

No. 2 (80mm mesh size regulation in Industrial fisheries)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	9,350	5,421	5,490	5,544	5,574	5,586	5,589	5,590
	Relative value	100.0	58.0	58.7	59.3	59.6	59.7	59.8	59.8
	Gap with present state	0	-3,929	-3,860	-3,806	-3,777	-3,765	-3,761	-3,760
	Accumulated gap	0	-3,929	-7,789	-11,595	-15,372	-19,137	-22,898	-26,658
Others	Value of gross landing	105,519	108,160	107,343	108,133	108,514	108,659	108,702	108,709
	Relative value	100.0	101.6	101.7	102.5	102.8	103.0	103.0	103.0
	Gap with present state	0	641	1,824	2,613	2,995	3,139	3,183	3,189
	Accumulated gap	0	641	2,466	5,079	8,074	11,213	14,396	17,586
Total	Value of gross landing	114,869	111,582	112,834	113,677	114,087	114,244	114,291	114,298
	Relative value	100.0	97.1	98.2	99.0	99.3	99.5	99.5	99.5
	Gap with present state	0	-3,288	-2,036	-1,193	-782	-625	-578	-571
	Accumulated gap	0	-3,288	-5,323	-6,516	-7,298	-7,923	-8,501	-9,072

No. 3 (to introduce a closed season for Industrial fisheries from October through December)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	9,350	5,003	5,059	5,089	5,103	5,107	5,108	5,108
	Relative value	100.0	53.5	54.1	54.4	54.6	54.6	54.6	54.6
	Gap with present state	0	-4,347	-4,291	-4,261	-4,248	-4,243	-4,242	-4,242
	Accumulated gap	0	-4,347	-8,639	-12,900	-17,147	-21,391	-25,633	-29,874
Others	Value of gross landing	105,519	106,629	107,828	108,485	108,770	108,867	108,893	108,897
	Relative value	100.0	101.1	102.2	102.8	103.1	103.2	103.2	103.2
	Gap with present state	0	1,110	2,309	2,966	3,251	3,348	3,374	3,378
	Accumulated gap	0	1,110	3,419	6,385	9,637	12,985	16,359	19,737
Total	Value of gross landing	114,869	111,632	112,887	113,575	113,873	113,974	114,001	114,005
	Relative value	100.0	97.2	98.3	98.9	99.1	99.2	99.2	99.2
	Gap with present state	0	-3,237	-1,983	-1,295	-996	-895	-868	-864
	Accumulated gap	0	-3,237	-5,220	-6,514	-7,510	-8,406	-9,274	-10,138

No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	9,350	4,171	4,233	4,271	4,289	4,295	4,297	4,297
	Relative value	100.0	44.6	45.3	45.7	45.9	45.9	46.0	46.0
	Gap with present state	0	-5,180	-5,117	-5,079	-5,062	-5,055	-5,053	-5,053
	Accumulated gap	0	-5,180	-10,297	-15,376	-20,438	-25,493	-30,546	-35,599
Others	Value of gross landing	105,519	106,720	108,167	109,024	109,415	109,556	109,597	109,604
	Relative value	100.0	101.1	102.5	103.3	103.7	103.8	103.9	103.9
	Gap with present state	0	1,201	2,648	3,505	3,896	4,037	4,078	4,085
	Accumulated gap	0	1,201	3,849	7,354	11,250	15,287	19,365	23,450
Total	Value of gross landing	114,869	110,891	112,400	113,295	113,704	113,851	113,895	113,901
	Relative value	100.0	96.5	97.9	98.6	99.0	99.1	99.2	99.2
	Gap with present state	0	-3,979	-2,469	-1,575	-1,165	-1,018	-975	-968
	Accumulated gap	0	-3,979	-6,448	-8,022	-9,188	-10,206	-11,181	-12,149

Table 5-2-7-5(5-2) Value of gross landing of *Brachydeuterus auritus*

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

(Unit: million cedi)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year	
Industrial	Value of gross landing	9,350	2,987	3,050	3,092	3,112	3,120	3,122	3,123
	Relative value	100.0	31.9	32.6	33.1	33.3	33.4	33.4	33.4
	Gap with present state	0	-6,363	-6,300	-6,259	-6,238	-6,230	-6,228	-6,228
	Accumulated gap	0	-6,363	-12,663	-18,922	-25,160	-31,390	-37,618	-43,846
Others	Value of gross landing	105,519	106,888	108,726	109,819	110,319	110,498	110,550	110,557
	Relative value	100.0	101.3	103.0	104.1	104.5	104.7	104.8	104.8
	Gap with present state	0	1,369	3,207	4,300	4,800	4,979	5,031	5,038
	Accumulated gap	0	1,369	4,576	8,876	13,675	18,655	23,686	28,724
Total	Value of gross landing	114,869	109,875	111,776	112,911	113,431	113,619	113,672	113,680
	Relative value	100.0	95.7	97.3	98.3	98.7	98.9	99.0	99.0
	Gap with present state	0	-4,994	-3,093	-1,959	-1,439	-1,251	-1,197	-1,189
	Accumulated gap	0	-4,994	-8,087	-10,046	-11,485	-12,736	-13,932	-15,122

No. 6 (to introduce a closed period for all fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year	
Industrial	Value of gross landing	9,350	5,805	6,714	7,331	7,666	7,808	7,854	7,861
	Relative value	100.0	62.1	71.8	78.4	82.0	83.5	84.0	84.1
	Gap with present state	0	-3,545	-2,636	-2,019	-1,684	-1,543	-1,497	-1,490
	Accumulated gap	0	-3,545	-6,182	-8,201	-9,885	-11,427	-12,924	-14,414
Others	Value of gross landing	105,519	65,508	75,768	82,735	86,514	88,111	88,629	88,709
	Relative value	100.0	62.1	71.8	78.4	82.0	83.5	84.0	84.1
	Gap with present state	0	-40,011	-29,751	-22,784	-19,005	-17,408	-16,890	-16,810
	Accumulated gap	0	-40,011	-69,762	-92,546	-111,551	-128,959	-145,848	-162,659
Total	Value of gross landing	114,869	71,313	82,482	90,067	94,180	95,919	96,483	96,570
	Relative value	100.0	62.1	71.8	78.4	82.0	83.5	84.0	84.1
	Gap with present state	0	-43,556	-32,387	-24,803	-20,689	-18,950	-18,386	-18,300
	Accumulated gap	0	-43,556	-75,944	-100,746	-121,436	-140,386	-158,772	-177,072

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year	
Industrial	Value of gross landing	9,350	7,861	8,336	8,760	9,000	9,100	9,135	9,141
	Relative value	100.0	84.1	89.2	93.7	96.2	97.3	97.7	97.8
	Gap with present state	0	-1,489	-1,014	-590	-351	-250	-215	-209
	Accumulated gap	0	-1,489	-2,504	-3,094	-3,445	-3,695	-3,910	-4,119
Others	Value of gross landing	105,519	88,713	94,072	98,857	101,562	102,694	103,090	103,160
	Relative value	100.0	84.1	89.2	93.7	96.2	97.3	97.7	97.8
	Gap with present state	0	-16,806	-11,448	-6,662	-3,957	-2,825	-2,429	-2,359
	Accumulated gap	0	-16,806	-28,254	-34,916	-38,874	-41,698	-44,127	-46,486
Total	Value of gross landing	114,869	96,574	102,407	107,617	110,561	111,794	112,225	112,302
	Relative value	100.0	84.1	89.2	93.7	96.2	97.3	97.7	97.8
	Gap with present state	0	-18,296	-12,462	-7,253	-4,308	-3,075	-2,644	-2,568
	Accumulated gap	0	-18,296	-30,758	-38,010	-42,318	-45,393	-48,037	-50,605

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year	
Industrial	Value of gross landing	9,350	5,812	6,802	7,690	8,228	8,467	8,547	8,560
	Relative value	100.0	62.2	72.8	82.2	88.0	90.6	91.4	91.5
	Gap with present state	0	-3,538	-2,548	-1,660	-1,123	-883	-803	-791
	Accumulated gap	0	-3,538	-6,086	-7,746	-8,869	-9,752	-10,556	-11,346
Others	Value of gross landing	105,519	65,589	76,766	86,785	92,848	95,551	96,455	96,597
	Relative value	100.0	62.2	72.8	82.2	88.0	90.6	91.4	91.5
	Gap with present state	0	-39,931	-28,753	-18,734	-12,671	-9,968	-9,064	-8,922
	Accumulated gap	0	-39,931	-68,684	-87,418	-100,089	-110,057	-119,121	-128,042
Total	Value of gross landing	114,869	71,400	83,568	94,475	101,076	104,019	105,002	105,157
	Relative value	100.0	62.2	72.8	82.2	88.0	90.6	91.4	91.5
	Gap with present state	0	-43,469	-31,301	-20,395	-13,794	-10,851	-9,867	-9,712
	Accumulated gap	0	-43,469	-74,770	-95,165	-108,958	-119,809	-129,676	-139,388

Table 5-2-7-5(6-1) Value of gross landing of *Pomadasys incisus*

No. 1 (70mm mesh size regulation in Industrial fisheries)									
(Unit: million cedi)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	363	335	337	338	339	339	339	339
	Relative value	100.0	92.5	93.1	93.3	93.4	93.4	93.4	93.4
	Gap with present state	0	-27	-25	-24	-24	-24	-24	-24
	Accumulated gap	0	-27	-52	-77	-101	-124	-148	-172
Others	Value of gross landing	1,232	1,236	1,243	1,246	1,247	1,247	1,247	1,247
	Relative value	100.0	100.3	100.9	101.1	101.2	101.2	101.3	101.3
	Gap with present state	0	4	11	14	15	15	15	15
	Accumulated gap	0	4	15	29	44	59	75	90
Total	Value of gross landing	1,594	1,571	1,580	1,584	1,586	1,586	1,586	1,586
	Relative value	100.0	98.5	99.1	99.4	99.4	99.5	99.5	99.5
	Gap with present state	0	-23	-14	-10	-9	-8	-8	-8
	Accumulated gap	0	-23	-38	-48	-57	-65	-74	-82

No. 2 (80mm mesh size regulation in Industrial fisheries)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	363	283	288	290	291	291	291	291
	Relative value	100.0	78.0	79.3	79.9	80.2	80.2	80.2	80.2
	Gap with present state	0	-80	-75	-73	-72	-72	-72	-72
	Accumulated gap	0	-80	-155	-228	-300	-371	-443	-515
Others	Value of gross landing	1,232	1,245	1,264	1,272	1,275	1,276	1,276	1,276
	Relative value	100.0	101.0	102.6	103.3	103.5	103.6	103.6	103.6
	Gap with present state	0	13	32	41	43	44	44	44
	Accumulated gap	0	13	45	86	129	173	217	261
Total	Value of gross landing	1,594	1,527	1,552	1,562	1,566	1,567	1,567	1,567
	Relative value	100.0	95.8	97.3	98.0	98.2	98.3	98.3	98.3
	Gap with present state	0	-67	-43	-32	-29	-28	-28	-28
	Accumulated gap	0	-67	-110	-142	-171	-198	-226	-253

No. 3 (to introduce a closed season for Industrial fisheries from October through December)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	363	269	273	274	275	275	275	275
	Relative value	100.0	74.2	75.3	75.6	75.8	75.8	75.8	75.8
	Gap with present state	0	-93	-90	-88	-88	-88	-88	-88
	Accumulated gap	0	-93	-183	-271	-359	-447	-535	-623
Others	Value of gross landing	1,232	1,255	1,273	1,279	1,281	1,282	1,282	1,282
	Relative value	100.0	101.9	103.3	103.9	104.0	104.1	104.1	104.1
	Gap with present state	0	24	41	48	50	50	50	50
	Accumulated gap	0	24	65	112	162	212	262	311
Total	Value of gross landing	1,594	1,525	1,546	1,554	1,556	1,557	1,557	1,557
	Relative value	100.0	95.6	96.9	97.4	97.6	97.6	97.6	97.6
	Gap with present state	0	-70	-49	-41	-38	-38	-38	-38
	Accumulated gap	0	-70	-118	-159	-198	-235	-273	-311

No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	363	250	255	256	257	257	257	257
	Relative value	100.0	68.9	70.2	70.7	70.9	70.9	70.9	70.9
	Gap with present state	0	-113	-108	-106	-106	-105	-105	-105
	Accumulated gap	0	-113	-221	-327	-433	-538	-644	-749
Others	Value of gross landing	1,232	1,258	1,281	1,289	1,292	1,293	1,293	1,293
	Relative value	100.0	102.1	104.0	104.7	104.9	105.0	105.0	105.0
	Gap with present state	0	26	49	58	61	61	61	61
	Accumulated gap	0	26	75	133	193	255	316	377
Total	Value of gross landing	1,594	1,508	1,535	1,546	1,549	1,550	1,550	1,550
	Relative value	100.0	94.6	96.3	97.0	97.2	97.2	97.2	97.2
	Gap with present state	0	-86	-59	-49	-45	-44	-44	-44
	Accumulated gap	0	-86	-146	-194	-239	-283	-328	-372

Table 5-2-7-5(6-2) Value of gross landing of *Pomadasys incisus*

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

(Unit: million cedi)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	363	212	218	220	221	221	221	221
	Relative value	100.0	58.4	60.0	60.8	61.0	61.1	61.1	61.1
	Gap with present state	0	-151	-145	-142	-141	-141	-141	-141
	Accumulated gap	0	-151	-296	-438	-580	-721	-862	-1,003
Others	Value of gross landing	1,232	1,264	1,296	1,309	1,313	1,314	1,314	1,314
	Relative value	100.0	102.6	105.2	106.3	106.6	106.7	106.7	106.7
	Gap with present state	0	32	64	77	81	82	82	82
	Accumulated gap	0	32	96	174	255	337	419	502
Total	Value of gross landing	1,594	1,476	1,514	1,529	1,534	1,536	1,536	1,536
	Relative value	100.0	92.6	94.9	95.9	96.2	96.3	96.3	96.3
	Gap with present state	0	-119	-81	-65	-60	-59	-59	-59
	Accumulated gap	0	-119	-199	-265	-325	-384	-443	-501

No. 6 (to introduce a closed period for all fisheries from October through December)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	363	289	308	316	318	319	319	319
	Relative value	100.0	79.8	84.9	87.0	87.8	87.9	87.9	87.9
	Gap with present state	0	-73	-55	-47	-44	-44	-44	-44
	Accumulated gap	0	-73	-128	-175	-219	-263	-307	-351
Others	Value of gross landing	1,232	983	1,046	1,072	1,081	1,083	1,083	1,083
	Relative value	100.0	79.8	84.9	87.0	87.8	87.9	87.9	87.9
	Gap with present state	0	-248	-185	-160	-151	-149	-149	-149
	Accumulated gap	0	-248	-434	-593	-744	-893	-1,042	-1,191
Total	Value of gross landing	1,594	1,273	1,354	1,388	1,399	1,402	1,402	1,402
	Relative value	100.0	79.8	84.9	87.0	87.8	87.9	87.9	87.9
	Gap with present state	0	-321	-240	-206	-195	-193	-193	-193
	Accumulated gap	0	-321	-561	-768	-963	-1,156	-1,349	-1,542

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	363	339	348	352	353	354	354	354
	Relative value	100.0	93.5	95.9	97.1	97.5	97.6	97.6	97.6
	Gap with present state	0	-24	-15	-11	-9	-9	-9	-9
	Accumulated gap	0	-24	-38	-49	-58	-67	-76	-84
Others	Value of gross landing	1,232	1,152	1,182	1,196	1,201	1,202	1,202	1,202
	Relative value	100.0	93.5	95.9	97.1	97.5	97.6	97.6	97.6
	Gap with present state	0	-80	-50	-36	-31	-30	-30	-30
	Accumulated gap	0	-80	-130	-166	-197	-227	-257	-286
Total	Value of gross landing	1,594	1,491	1,530	1,548	1,554	1,556	1,556	1,556
	Relative value	100.0	93.5	95.9	97.1	97.5	97.6	97.6	97.6
	Gap with present state	0	-104	-65	-47	-40	-38	-38	-38
	Accumulated gap	0	-104	-168	-215	-256	-294	-332	-371

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	363	293	316	327	331	332	332	332
	Relative value	100.0	80.7	87.2	90.2	91.4	91.7	91.7	91.7
	Gap with present state	0	-70	-47	-35	-31	-30	-30	-30
	Accumulated gap	0	-70	-117	-152	-183	-213	-243	-274
Others	Value of gross landing	1,232	994	1,074	1,112	1,126	1,129	1,130	1,130
	Relative value	100.0	80.7	87.2	90.2	91.4	91.7	91.7	91.7
	Gap with present state	0	-238	-158	-120	-106	-102	-102	-102
	Accumulated gap	0	-238	-396	-516	-622	-725	-827	-929
Total	Value of gross landing	1,594	1,287	1,390	1,439	1,457	1,462	1,462	1,462
	Relative value	100.0	80.7	87.2	90.2	91.4	91.7	91.7	91.7
	Gap with present state	0	-308	-205	-156	-137	-133	-132	-132
	Accumulated gap	0	-308	-513	-668	-806	-938	-1,070	-1,203

Table 5-2-7-5(7-1) Value of gross landing of *Pseudupeneus prayensis*

No. 1 (70mm mesh size regulation in Industrial fisheries)		(Unit: million cedi)							
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	2,870	2,801	2,827	2,827	2,827	2,827	2,827	2,827
	Relative value	100.0	97.6	98.5	98.5	98.5	98.5	98.5	98.5
	Gap with present state	0	-69	-43	-43	-43	-43	-43	-43
	Accumulated gap	0	-69	-113	-156	-200	-243	-287	-330
Others	Value of gross landing	2,568	2,677	2,700	2,700	2,700	2,700	2,700	2,700
	Relative value	100.0	104.2	105.1	105.1	105.1	105.1	105.1	105.1
	Gap with present state	0	109	132	132	132	132	132	132
	Accumulated gap	0	109	240	372	504	636	768	900
Total	Value of gross landing	5,439	5,478	5,527	5,527	5,527	5,527	5,527	5,527
	Relative value	100.0	100.7	101.6	101.6	101.6	101.6	101.6	101.6
	Gap with present state	0	39	88	88	88	88	88	88
	Accumulated gap	0	39	128	216	304	393	481	570

No. 2 (80mm mesh size regulation in Industrial fisheries)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	2,870	2,603	2,690	2,690	2,690	2,690	2,690	2,690
	Relative value	100.0	90.7	93.7	93.7	93.7	93.7	93.7	93.7
	Gap with present state	0	-268	-180	-180	-180	-180	-180	-180
	Accumulated gap	0	-268	-448	-628	-808	-988	-1,168	-1,348
Others	Value of gross landing	2,568	2,864	2,944	2,944	2,944	2,944	2,944	2,944
	Relative value	100.0	111.5	114.6	114.6	114.6	114.6	114.6	114.6
	Gap with present state	0	296	375	375	375	375	375	375
	Accumulated gap	0	296	671	1,046	1,422	1,797	2,172	2,548
Total	Value of gross landing	5,439	5,466	5,634	5,634	5,634	5,634	5,634	5,634
	Relative value	100.0	100.5	103.6	103.6	103.6	103.6	103.6	103.6
	Gap with present state	0	28	195	195	195	195	195	195
	Accumulated gap	0	28	223	418	614	809	1,004	1,200

No. 3 (to introduce a closed season for Industrial fisheries from October through December)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	2,870	2,734	2,757	2,757	2,757	2,757	2,757	2,757
	Relative value	100.0	95.2	96.1	96.1	96.1	96.1	96.1	96.1
	Gap with present state	0	-136	-113	-113	-113	-113	-113	-113
	Accumulated gap	0	-136	-250	-363	-476	-590	-703	-816
Others	Value of gross landing	2,568	2,834	2,859	2,859	2,859	2,859	2,859	2,859
	Relative value	100.0	110.4	111.3	111.3	111.3	111.3	111.3	111.3
	Gap with present state	0	266	291	291	291	291	291	291
	Accumulated gap	0	266	557	848	1,139	1,430	1,721	2,011
Total	Value of gross landing	5,439	5,568	5,616	5,616	5,616	5,616	5,616	5,616
	Relative value	100.0	102.4	103.3	103.3	103.3	103.3	103.3	103.3
	Gap with present state	0	130	178	178	178	178	178	178
	Accumulated gap	0	130	307	485	662	840	1,018	1,195

No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	2,870	2,674	2,715	2,715	2,715	2,715	2,715	2,715
	Relative value	100.0	93.1	94.6	94.6	94.6	94.6	94.6	94.6
	Gap with present state	0	-197	-158	-158	-158	-158	-158	-158
	Accumulated gap	0	-197	-352	-508	-664	-819	-975	-1,130
Others	Value of gross landing	2,568	2,897	2,941	2,941	2,941	2,941	2,941	2,941
	Relative value	100.0	112.8	114.5	114.5	114.5	114.5	114.5	114.5
	Gap with present state	0	329	373	373	373	373	373	373
	Accumulated gap	0	329	702	1,075	1,448	1,821	2,194	2,567
Total	Value of gross landing	5,439	5,571	5,656	5,656	5,656	5,656	5,656	5,656
	Relative value	100.0	102.4	104.0	104.0	104.0	104.0	104.0	104.0
	Gap with present state	0	132	217	217	217	217	217	217
	Accumulated gap	0	132	350	567	784	1,002	1,219	1,437

Table 5-2-7-5(7-2) Value of gross landing of *Pseudupeneus prayensis*

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

(Unit: million cedi)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	2,870	2,486	2,579	2,579	2,579	2,579	2,579
	Relative value	100.0	86.6	89.8	89.8	89.8	89.8	89.8
	Gap with present state	0	-384	-291	-291	-291	-291	-291
	Accumulated gap	0	-384	-675	-967	-1,258	-1,549	-1,841
Others	Value of gross landing	2,568	3,036	3,136	3,136	3,136	3,136	3,136
	Relative value	100.0	118.2	122.1	122.1	122.1	122.1	122.1
	Gap with present state	0	468	567	567	567	567	567
	Accumulated gap	0	468	1,035	1,602	2,170	2,737	3,304
Total	Value of gross landing	5,439	5,522	5,715	5,715	5,715	5,715	5,715
	Relative value	100.0	101.5	105.1	105.1	105.1	105.1	105.1
	Gap with present state	0	84	276	276	276	276	276
	Accumulated gap	0	84	360	636	912	1,188	1,464

No. 6 (to introduce a closed period for all fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	2,870	3,006	3,057	3,057	3,057	3,057	3,057
	Relative value	100.0	104.7	106.5	106.5	106.5	106.5	106.5
	Gap with present state	0	136	186	186	186	186	186
	Accumulated gap	0	136	322	509	695	882	1,068
Others	Value of gross landing	2,568	2,690	2,735	2,735	2,735	2,735	2,735
	Relative value	100.0	104.7	106.5	106.5	106.5	106.5	106.5
	Gap with present state	0	122	167	167	167	167	167
	Accumulated gap	0	122	288	455	622	789	956
Total	Value of gross landing	5,439	5,696	5,792	5,792	5,792	5,792	5,792
	Relative value	100.0	104.7	106.5	106.5	106.5	106.5	106.5
	Gap with present state	0	257	353	353	353	353	353
	Accumulated gap	0	257	611	964	1,317	1,671	2,024

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	2,870	2,909	2,961	2,961	2,961	2,961	2,961
	Relative value	100.0	101.4	103.2	103.2	103.2	103.2	103.2
	Gap with present state	0	39	91	91	91	91	91
	Accumulated gap	0	39	130	220	311	402	493
Others	Value of gross landing	2,568	2,603	2,649	2,649	2,649	2,649	2,649
	Relative value	100.0	101.4	103.2	103.2	103.2	103.2	103.2
	Gap with present state	0	35	81	81	81	81	81
	Accumulated gap	0	35	116	197	278	360	441
Total	Value of gross landing	5,439	5,512	5,611	5,611	5,611	5,611	5,611
	Relative value	100.0	101.4	103.2	103.2	103.2	103.2	103.2
	Gap with present state	0	74	172	172	172	172	172
	Accumulated gap	0	74	245	417	589	761	933

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	2,870	2,883	3,080	3,080	3,080	3,080	3,080
	Relative value	100.0	100.4	107.3	107.3	107.3	107.3	107.3
	Gap with present state	0	13	210	210	210	210	210
	Accumulated gap	0	13	223	433	643	853	1,062
Others	Value of gross landing	2,568	2,580	2,756	2,756	2,756	2,756	2,756
	Relative value	100.0	100.4	107.3	107.3	107.3	107.3	107.3
	Gap with present state	0	11	188	188	188	188	188
	Accumulated gap	0	11	199	387	575	763	951
Total	Value of gross landing	5,439	5,463	5,836	5,836	5,836	5,836	5,836
	Relative value	100.0	100.4	107.3	107.3	107.3	107.3	107.3
	Gap with present state	0	24	398	398	398	398	398
	Accumulated gap	0	24	422	820	1,218	1,615	2,013



Table 5-2-7-5(8-1) Value of gross landing of *Decapterus rhonchus*

		No. 1 (70mm mesh size regulation in Industrial fisheries)							(Unit: million cedi)
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	4,740	4,028	4,091	4,131	4,131	4,131	4,131	4,131
	Relative value	100.0	85.0	86.3	87.1	87.1	87.1	87.1	87.1
	Gap with present state	0	-713	-649	-610	-610	-610	-610	-610
	Accumulated gap	0	-713	-1,362	-1,972	-2,581	-3,191	-3,801	-4,411
Others	Value of gross landing	29,036	29,777	30,209	30,449	30,449	30,449	30,449	30,449
	Relative value	100.0	102.6	104.0	104.9	104.9	104.9	104.9	104.9
	Gap with present state	0	741	1,173	1,413	1,413	1,413	1,413	1,413
	Accumulated gap	0	741	1,913	3,326	4,739	6,152	7,565	8,978
Total	Value of gross landing	33,777	33,805	34,300	34,580	34,580	34,580	34,580	34,580
	Relative value	100.0	100.1	101.5	102.4	102.4	102.4	102.4	102.4
	Gap with present state	0	28	524	803	803	803	803	803
	Accumulated gap	0	28	552	1,355	2,158	2,961	3,764	4,567
		No. 2 (80mm mesh size regulation in Industrial fisheries)							
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	4,740	3,305	3,403	3,473	3,473	3,473	3,473	3,473
	Relative value	100.0	69.7	71.8	73.3	73.3	73.3	73.3	73.3
	Gap with present state	0	-1,436	-1,337	-1,268	-1,268	-1,268	-1,268	-1,268
	Accumulated gap	0	-1,436	-2,773	-4,040	-5,308	-6,576	-7,844	-9,111
Others	Value of gross landing	29,036	30,515	31,329	31,762	31,762	31,762	31,762	31,762
	Relative value	100.0	105.1	107.9	109.4	109.4	109.4	109.4	109.4
	Gap with present state	0	1,479	2,292	2,726	2,726	2,726	2,726	2,726
	Accumulated gap	0	1,479	3,772	6,498	9,224	11,950	14,676	17,402
Total	Value of gross landing	33,777	33,820	34,732	35,235	35,235	35,235	35,235	35,235
	Relative value	100.0	100.1	102.8	104.3	104.3	104.3	104.3	104.3
	Gap with present state	0	44	955	1,458	1,458	1,458	1,458	1,458
	Accumulated gap	0	44	999	2,457	3,915	5,374	6,832	8,290
		No. 3 (to introduce a closed season for Industrial fisheries from October through December)							
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	4,740	4,537	4,556	4,565	4,565	4,565	4,565	4,565
	Relative value	100.0	95.7	96.1	96.3	96.3	96.3	96.3	96.3
	Gap with present state	0	-203	-185	-175	-175	-175	-175	-175
	Accumulated gap	0	-203	-388	-563	-738	-913	-1,088	-1,263
Others	Value of gross landing	29,036	29,414	29,530	29,592	29,592	29,592	29,592	29,592
	Relative value	100.0	101.3	101.7	101.9	101.9	101.9	101.9	101.9
	Gap with present state	0	377	493	556	556	556	556	556
	Accumulated gap	0	377	871	1,427	1,983	2,539	3,095	3,651
Total	Value of gross landing	33,777	33,951	34,085	34,158	34,158	34,158	34,158	34,158
	Relative value	100.0	100.5	100.9	101.1	101.1	101.1	101.1	101.1
	Gap with present state	0	174	309	381	381	381	381	381
	Accumulated gap	0	174	483	864	1,245	1,626	2,007	2,388
		No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)							
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	4,740	3,875	3,946	3,990	3,990	3,990	3,990	3,990
	Relative value	100.0	81.7	83.3	84.2	84.2	84.2	84.2	84.2
	Gap with present state	0	-866	-794	-751	-751	-751	-751	-751
	Accumulated gap	0	-866	-1,660	-2,410	-3,161	-3,911	-4,662	-5,412
Others	Value of gross landing	29,036	30,037	30,541	30,819	30,819	30,819	30,819	30,819
	Relative value	100.0	103.4	105.2	106.1	106.1	106.1	106.1	106.1
	Gap with present state	0	1,001	1,505	1,783	1,783	1,783	1,783	1,783
	Accumulated gap	0	1,001	2,506	4,289	6,071	7,854	9,637	11,419
Total	Value of gross landing	33,777	33,912	34,488	34,809	34,809	34,809	34,809	34,809
	Relative value	100.0	100.4	102.1	103.1	103.1	103.1	103.1	103.1
	Gap with present state	0	135	711	1,032	1,032	1,032	1,032	1,032
	Accumulated gap	0	135	847	1,879	2,911	3,943	4,975	6,007

Table 5-2-7-5(8-2) Value of gross landing of *Decapterus rhonchus*

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

(Unit: million cedi)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	4,740	3,183	3,284	3,354	3,354	3,354	3,354	3,354
	Relative value	100.0	67.1	69.3	70.8	70.8	70.8	70.8	70.8
	Gap with present state	0	-1,558	-1,457	-1,386	-1,386	-1,386	-1,386	-1,386
	Accumulated gap	0	-1,558	-3,014	-4,400	-5,786	-7,173	-8,559	-9,945
Others	Value of gross landing	29,036	30,711	31,575	32,033	32,033	32,033	32,033	32,033
	Relative value	100.0	105.8	108.7	110.3	110.3	110.3	110.3	110.3
	Gap with present state	0	1,675	2,539	2,997	2,997	2,997	2,997	2,997
	Accumulated gap	0	1,675	4,214	7,211	10,208	13,206	16,203	19,200
Total	Value of gross landing	33,777	33,894	34,859	35,388	35,388	35,388	35,388	35,388
	Relative value	100.0	100.3	103.2	104.8	104.8	104.8	104.8	104.8
	Gap with present state	0	117	1,082	1,611	1,611	1,611	1,611	1,611
	Accumulated gap	0	117	1,199	2,811	4,422	6,033	7,644	9,256

No. 6 (to introduce a closed period for all fisheries from October through December)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	4,740	4,928	5,075	5,155	5,155	5,155	5,155	5,155
	Relative value	100.0	104.0	107.1	108.7	108.7	108.7	108.7	108.7
	Gap with present state	0	188	335	414	414	414	414	414
	Accumulated gap	0	188	523	937	1,351	1,765	2,180	2,594
Others	Value of gross landing	29,036	30,186	31,088	31,574	31,574	31,574	31,574	31,574
	Relative value	100.0	104.0	107.1	108.7	108.7	108.7	108.7	108.7
	Gap with present state	0	1,149	2,052	2,537	2,537	2,537	2,537	2,537
	Accumulated gap	0	1,149	3,201	5,738	8,276	10,813	13,351	15,888
Total	Value of gross landing	33,777	35,114	36,163	36,728	36,728	36,728	36,728	36,728
	Relative value	100.0	104.0	107.1	108.7	108.7	108.7	108.7	108.7
	Gap with present state	0	1,337	2,387	2,952	2,952	2,952	2,952	2,952
	Accumulated gap	0	1,337	3,724	6,675	9,627	12,579	15,530	18,482

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	4,740	4,709	5,393	5,774	5,774	5,774	5,774	5,774
	Relative value	100.0	99.3	113.8	121.8	121.8	121.8	121.8	121.8
	Gap with present state	0	-31	653	1,034	1,034	1,034	1,034	1,034
	Accumulated gap	0	-31	621	1,655	2,689	3,723	4,757	5,791
Others	Value of gross landing	29,036	28,844	33,034	35,369	35,369	35,369	35,369	35,369
	Relative value	100.0	99.3	113.8	121.8	121.8	121.8	121.8	121.8
	Gap with present state	0	-192	3,998	6,333	6,333	6,333	6,333	6,333
	Accumulated gap	0	-192	3,806	10,139	16,471	22,804	29,137	35,470
Total	Value of gross landing	33,777	33,554	38,427	41,143	41,143	41,143	41,143	41,143
	Relative value	100.0	99.3	113.8	121.8	121.8	121.8	121.8	121.8
	Gap with present state	0	-223	4,650	7,367	7,367	7,367	7,367	7,367
	Accumulated gap	0	-223	4,427	11,794	19,161	26,527	33,894	41,261

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	4,740	4,541	6,234	7,138	7,138	7,138	7,138	7,138
	Relative value	100.0	95.8	131.5	150.6	150.6	150.6	150.6	150.6
	Gap with present state	0	-199	1,493	2,398	2,398	2,398	2,398	2,398
	Accumulated gap	0	-199	1,294	3,691	6,089	8,487	10,884	13,282
Others	Value of gross landing	29,036	27,815	38,183	43,721	43,721	43,721	43,721	43,721
	Relative value	100.0	95.8	131.5	150.6	150.6	150.6	150.6	150.6
	Gap with present state	0	-1,221	9,147	14,685	14,685	14,685	14,685	14,685
	Accumulated gap	0	-1,221	7,926	22,611	37,296	51,981	66,666	81,351
Total	Value of gross landing	33,777	32,357	44,417	50,859	50,859	50,859	50,859	50,859
	Relative value	100.0	95.8	131.5	150.6	150.6	150.6	150.6	150.6
	Gap with present state	0	-1,420	10,640	17,083	17,083	17,083	17,083	17,083
	Accumulated gap	0	-1,420	9,220	26,302	43,385	60,468	77,550	94,633

Table 5-2-7-5(9-1) Value of gross landing of *Galeoides decadactylus*

No. 1 (70mm mesh size regulation in Industrial fisheries)		(Unit: million cedi)							
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	279	190	190	190	190	190	190	190
	Relative value	100.0	68.0	68.2	68.2	68.2	68.2	68.2	68.2
	Gap with present state	0	-89	-89	-89	-89	-89	-89	-89
	Accumulated gap	0	-89	-178	-266	-355	-444	-532	-621
Others	Value of gross landing	24,315	24,445	24,485	24,489	24,489	24,489	24,489	24,489
	Relative value	100.0	100.5	100.7	100.7	100.7	100.7	100.7	100.7
	Gap with present state	0	130	170	174	174	174	174	174
	Accumulated gap	0	130	300	474	648	823	997	1,171
Total	Value of gross landing	24,594	24,635	24,675	24,679	24,679	24,679	24,679	24,679
	Relative value	100.0	100.2	100.3	100.3	100.3	100.3	100.3	100.3
	Gap with present state	0	41	81	86	86	86	86	86
	Accumulated gap	0	41	122	208	293	379	464	550

No. 2 (80mm mesh size regulation in Industrial fisheries)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	279	126	127	127	127	127	127	127
	Relative value	100.0	45.2	45.4	45.5	45.5	45.5	45.5	45.5
	Gap with present state	0	-153	-152	-152	-152	-152	-152	-152
	Accumulated gap	0	-153	-305	-457	-609	-761	-913	-1,065
Others	Value of gross landing	24,315	24,519	24,591	24,599	24,599	24,599	24,599	24,599
	Relative value	100.0	100.8	101.1	101.2	101.2	101.2	101.2	101.2
	Gap with present state	0	204	276	284	284	284	284	284
	Accumulated gap	0	204	480	764	1,048	1,332	1,617	1,901
Total	Value of gross landing	24,594	24,645	24,718	24,726	24,726	24,726	24,726	24,726
	Relative value	100.0	100.2	100.5	100.5	100.5	100.5	100.5	100.5
	Gap with present state	0	51	124	132	132	132	132	132
	Accumulated gap	0	51	175	307	439	572	704	836

No. 3 (to introduce a closed season for Industrial fisheries from October through December)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	279	193	193	193	193	193	193	193
	Relative value	100.0	69.1	69.2	69.2	69.2	69.2	69.2	69.2
	Gap with present state	0	-86	-86	-86	-86	-86	-86	-86
	Accumulated gap	0	-86	-172	-258	-344	-429	-515	-601
Others	Value of gross landing	24,315	24,454	24,479	24,482	24,482	24,482	24,482	24,482
	Relative value	100.0	100.6	100.7	100.7	100.7	100.7	100.7	100.7
	Gap with present state	0	139	164	167	167	167	167	167
	Accumulated gap	0	139	303	470	637	803	970	1,137
Total	Value of gross landing	24,594	24,647	24,672	24,674	24,674	24,674	24,674	24,674
	Relative value	100.0	100.2	100.3	100.3	100.3	100.3	100.3	100.3
	Gap with present state	0	53	78	81	81	81	81	81
	Accumulated gap	0	53	131	212	293	374	455	536

No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)									
		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	279	142	142	142	142	142	142	142
	Relative value	100.0	51.0	51.1	51.1	51.1	51.1	51.1	51.1
	Gap with present state	0	-137	-136	-136	-136	-136	-136	-136
	Accumulated gap	0	-137	-273	-409	-545	-682	-818	-954
Others	Value of gross landing	24,315	24,515	24,565	24,571	24,571	24,571	24,571	24,571
	Relative value	100.0	100.8	101.0	101.1	101.1	101.1	101.1	101.1
	Gap with present state	0	200	250	256	256	256	256	256
	Accumulated gap	0	200	451	707	962	1,218	1,474	1,730
Total	Value of gross landing	24,594	24,657	24,708	24,713	24,713	24,713	24,713	24,713
	Relative value	100.0	100.3	100.5	100.5	100.5	100.5	100.5	100.5
	Gap with present state	0	64	114	120	120	120	120	120
	Accumulated gap	0	64	178	297	417	537	656	776

Table 5-2-7-5(9-2) Value of gross landing of *Galeoides decadactylus*

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

(Unit: million cedi)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	279	94	95	95	95	95	95	95
	Relative value	100.0	33.9	34.1	34.1	34.1	34.1	34.1	34.1
	Gap with present state	0	-184	-184	-184	-184	-184	-184	-184
	Accumulated gap	0	-184	-368	-552	-736	-919	-1,103	-1,287
Others	Value of gross landing	24,315	24,562	24,640	24,648	24,648	24,648	24,648	24,648
	Relative value	100.0	101.0	101.3	101.4	101.4	101.4	101.4	101.4
	Gap with present state	0	247	325	333	333	333	333	333
	Accumulated gap	0	247	572	905	1,238	1,571	1,905	2,238
Total	Value of gross landing	24,594	24,656	24,734	24,743	24,743	24,743	24,743	24,743
	Relative value	100.0	100.3	100.6	100.6	100.6	100.6	100.6	100.6
	Gap with present state	0	63	141	149	149	149	149	149
	Accumulated gap	0	63	204	353	503	652	802	951

No. 6 (to introduce a closed period for all fisheries from October through December)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	279	350	388	394	394	394	394	394
	Relative value	100.0	125.6	139.4	141.2	141.2	141.2	141.2	141.2
	Gap with present state	0	71	110	115	115	115	115	115
	Accumulated gap	0	71	181	296	411	526	641	756
Others	Value of gross landing	24,315	30,550	33,884	34,342	34,342	34,342	34,342	34,342
	Relative value	100.0	125.6	139.4	141.2	141.2	141.2	141.2	141.2
	Gap with present state	0	6,235	9,569	10,027	10,027	10,027	10,027	10,027
	Accumulated gap	0	6,235	15,804	25,831	35,858	45,885	55,912	65,940
Total	Value of gross landing	24,594	30,900	34,272	34,736	34,736	34,736	34,736	34,736
	Relative value	100.0	125.6	139.4	141.2	141.2	141.2	141.2	141.2
	Gap with present state	0	6,307	9,679	10,142	10,142	10,142	10,142	10,142
	Accumulated gap	0	6,307	15,985	26,127	36,269	46,411	56,553	66,695

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	279	329	401	409	409	409	409	409
	Relative value	100.0	118.0	143.9	146.9	146.9	146.9	146.9	146.9
	Gap with present state	0	50	122	131	131	131	131	131
	Accumulated gap	0	50	172	303	434	565	695	826
Others	Value of gross landing	24,315	28,695	34,985	35,718	35,718	35,718	35,718	35,718
	Relative value	100.0	118.0	143.9	146.9	146.9	146.9	146.9	146.9
	Gap with present state	0	4,380	10,670	11,403	11,403	11,403	11,403	11,403
	Accumulated gap	0	4,380	15,049	26,452	37,855	49,258	60,661	72,064
Total	Value of gross landing	24,594	29,023	35,386	36,127	36,127	36,127	36,127	36,127
	Relative value	100.0	118.0	143.9	146.9	146.9	146.9	146.9	146.9
	Gap with present state	0	4,430	10,792	11,534	11,534	11,534	11,534	11,534
	Accumulated gap	0	4,430	15,222	26,756	38,289	49,823	61,357	72,890

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	279	311	542	571	571	571	571	571
	Relative value	100.0	111.6	194.5	205.0	205.0	205.0	205.0	205.0
	Gap with present state	0	32	263	293	293	293	293	293
	Accumulated gap	0	32	296	588	881	1,174	1,466	1,759
Others	Value of gross landing	24,315	27,130	47,293	49,850	49,850	49,850	49,850	49,850
	Relative value	100.0	111.6	194.5	205.0	205.0	205.0	205.0	205.0
	Gap with present state	0	2,815	22,978	25,535	25,535	25,535	25,535	25,535
	Accumulated gap	0	2,815	25,792	51,327	76,862	102,396	127,931	153,465
Total	Value of gross landing	24,594	27,441	47,835	50,421	50,421	50,421	50,421	50,421
	Relative value	100.0	111.6	194.5	205.0	205.0	205.0	205.0	205.0
	Gap with present state	0	2,847	23,241	25,827	25,827	25,827	25,827	25,827
	Accumulated gap	0	2,847	26,088	51,915	77,743	103,570	129,397	155,224

Table 5-2-7-5(10-1) Value of gross landing of *Sepia officinalis*

No. 1 (70mm mesh size regulation in Industrial fisheries)

(Unit: million cedi)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	61,905	62,005	63,699	65,182	65,182	65,182	65,182	65,182
	Relative value	100.0	100.2	102.9	105.3	105.3	105.3	105.3	105.3
	Gap with present state	0	100	1,784	3,278	3,278	3,278	3,278	3,278
	Accumulated gap	0	100	1,884	5,172	8,450	11,727	15,005	18,282
Others	Value of gross landing	5,453	5,479	5,628	5,759	5,759	5,759	5,759	5,759
	Relative value	100.0	100.5	103.2	105.6	105.6	105.6	105.6	105.6
	Gap with present state	0	26	175	306	306	306	306	306
	Accumulated gap	0	26	201	507	813	1,119	1,425	1,731
Total	Value of gross landing	67,358	67,484	69,327	70,941	70,941	70,941	70,941	70,941
	Relative value	100.0	100.2	102.9	105.3	105.3	105.3	105.3	105.3
	Gap with present state	0	126	1,969	3,584	3,584	3,584	3,584	3,584
	Accumulated gap	0	126	2,096	5,679	9,263	12,846	16,430	20,013

No. 2 (80mm mesh size regulation in Industrial fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	61,905	61,984	64,411	66,537	66,537	66,537	66,537	66,537
	Relative value	100.0	100.1	104.0	107.5	107.5	107.5	107.5	107.5
	Gap with present state	0	79	2,506	4,632	4,632	4,632	4,632	4,632
	Accumulated gap	0	79	2,585	7,217	11,849	16,480	21,112	25,744
Others	Value of gross landing	5,453	5,490	5,703	5,891	5,891	5,891	5,891	5,891
	Relative value	100.0	100.7	104.6	108.0	108.0	108.0	108.0	108.0
	Gap with present state	0	37	250	438	438	438	438	438
	Accumulated gap	0	37	287	725	1,163	1,600	2,038	2,476
Total	Value of gross landing	67,358	67,474	70,114	72,427	72,427	72,427	72,427	72,427
	Relative value	100.0	100.2	104.1	107.5	107.5	107.5	107.5	107.5
	Gap with present state	0	116	2,756	5,070	5,070	5,070	5,070	5,070
	Accumulated gap	0	116	2,872	7,942	13,011	18,081	23,150	28,220

No. 3 (to introduce a closed season for Industrial fisheries from October through December)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	61,905	41,922	52,271	58,558	58,558	58,558	58,558	58,558
	Relative value	100.0	67.7	84.4	94.6	94.6	94.6	94.6	94.6
	Gap with present state	0	-19,983	-9,633	-3,346	-3,346	-3,346	-3,346	-3,346
	Accumulated gap	0	-19,983	-29,616	-32,963	-36,309	-39,655	-43,002	-46,348
Others	Value of gross landing	5,453	5,866	7,240	7,982	7,982	7,982	7,982	7,982
	Relative value	100.0	107.6	132.8	146.4	146.4	146.4	146.4	146.4
	Gap with present state	0	413	1,787	2,529	2,529	2,529	2,529	2,529
	Accumulated gap	0	413	2,200	4,729	7,258	9,787	12,316	14,845
Total	Value of gross landing	67,358	47,788	59,511	66,541	66,541	66,541	66,541	66,541
	Relative value	100.0	70.9	88.4	98.8	98.8	98.8	98.8	98.8
	Gap with present state	0	-19,570	-7,847	-817	-817	-817	-817	-817
	Accumulated gap	0	-19,570	-27,416	-28,234	-29,051	-29,868	-30,685	-31,502

No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	61,905	41,774	53,630	61,984	61,984	61,984	61,984	61,984
	Relative value	100.0	67.5	86.6	100.1	100.1	100.1	100.1	100.1
	Gap with present state	0	-20,131	-8,275	79	79	79	79	79
	Accumulated gap	0	-20,131	-28,406	-28,327	-28,248	-28,169	-28,090	-28,011
Others	Value of gross landing	5,453	5,897	7,498	8,484	8,484	8,484	8,484	8,484
	Relative value	100.0	108.1	137.5	155.6	155.6	155.6	155.6	155.6
	Gap with present state	0	444	2,045	3,031	3,031	3,031	3,031	3,031
	Accumulated gap	0	444	2,489	5,520	8,551	11,582	14,614	17,645
Total	Value of gross landing	67,358	47,671	61,127	70,468	70,468	70,468	70,468	70,468
	Relative value	100.0	70.8	90.7	104.8	104.8	104.8	104.8	104.8
	Gap with present state	0	-19,687	-6,231	3,110	3,110	3,110	3,110	3,110
	Accumulated gap	0	-19,687	-25,918	-22,807	-19,697	-16,587	-13,477	-10,366

Table 5-2-7-5(10-2) Value of gross landing of *Sepia officinalis*

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

(Unit: million cedi)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	61,905	41,648	54,148	63,387	63,387	63,387	63,387	63,387
	Relative value	100.0	67.3	87.5	102.4	102.4	102.4	102.4	102.4
	Gap with present state	0	-20,257	-7,756	1,482	1,482	1,482	1,482	1,482
	Accumulated gap	0	-20,257	-28,013	-26,531	-25,049	-23,567	-22,084	-20,602
Others	Value of gross landing	5,453	5,909	7,607	8,698	8,698	8,698	8,698	8,698
	Relative value	100.0	108.4	139.5	159.5	159.5	159.5	159.5	159.5
	Gap with present state	0	456	2,154	3,245	3,245	3,245	3,245	3,245
	Accumulated gap	0	456	2,611	5,856	9,102	12,347	15,593	18,838
Total	Value of gross landing	67,358	47,558	61,756	72,085	72,085	72,085	72,085	72,085
	Relative value	100.0	70.6	91.7	107.0	107.0	107.0	107.0	107.0
	Gap with present state	0	-19,800	-5,602	4,728	4,728	4,728	4,728	4,728
	Accumulated gap	0	-19,800	-25,402	-20,675	-15,947	-11,220	-6,492	-1,764

No. 6 (to introduce a closed period for all fisheries from October through December)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	61,905	41,922	53,395	60,508	60,508	60,508	60,508	60,508
	Relative value	100.0	67.7	86.3	97.7	97.7	97.7	97.7	97.7
	Gap with present state	0	-19,983	-8,509	-1,396	-1,396	-1,396	-1,396	-1,396
	Accumulated gap	0	-19,983	-28,493	-29,889	-31,285	-32,682	-34,078	-35,474
Others	Value of gross landing	5,453	3,693	4,703	5,330	5,330	5,330	5,330	5,330
	Relative value	100.0	67.7	86.3	97.7	97.7	97.7	97.7	97.7
	Gap with present state	0	-1,760	-750	-123	-123	-123	-123	-123
	Accumulated gap	0	-1,760	-2,510	-2,633	-2,756	-2,879	-3,002	-3,125
Total	Value of gross landing	67,358	45,615	58,099	65,838	65,838	65,838	65,838	65,838
	Relative value	100.0	67.7	86.3	97.7	97.7	97.7	97.7	97.7
	Gap with present state	0	-21,743	-9,259	-1,519	-1,519	-1,519	-1,519	-1,519
	Accumulated gap	0	-21,743	-31,002	-32,522	-34,041	-35,560	-37,080	-38,599

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	61,905	62,032	63,882	65,503	65,503	65,503	65,503	65,503
	Relative value	100.0	100.2	103.2	105.8	105.8	105.8	105.8	105.8
	Gap with present state	0	127	1,977	3,598	3,598	3,598	3,598	3,598
	Accumulated gap	0	127	2,104	5,702	9,300	12,898	16,496	20,094
Others	Value of gross landing	5,453	5,464	5,627	5,770	5,770	5,770	5,770	5,770
	Relative value	100.0	100.2	103.2	105.8	105.8	105.8	105.8	105.8
	Gap with present state	0	11	174	317	317	317	317	317
	Accumulated gap	0	11	185	502	819	1,136	1,453	1,770
Total	Value of gross landing	67,358	67,496	69,509	71,273	71,273	71,273	71,273	71,273
	Relative value	100.0	100.2	103.2	105.8	105.8	105.8	105.8	105.8
	Gap with present state	0	138	2,151	3,915	3,915	3,915	3,915	3,915
	Accumulated gap	0	138	2,289	6,204	10,119	14,034	17,949	21,864

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)

		Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial	Value of gross landing	61,905	62,021	64,677	67,003	67,003	67,003	67,003	67,003
	Relative value	100.0	100.2	104.5	108.2	108.2	108.2	108.2	108.2
	Gap with present state	0	116	2,772	5,098	5,098	5,098	5,098	5,098
	Accumulated gap	0	116	2,888	7,986	13,084	18,182	23,280	28,379
Others	Value of gross landing	5,453	5,463	5,697	5,902	5,902	5,902	5,902	5,902
	Relative value	100.0	100.2	104.5	108.2	108.2	108.2	108.2	108.2
	Gap with present state	0	10	244	449	449	449	449	449
	Accumulated gap	0	10	254	703	1,153	1,602	2,051	2,500
Total	Value of gross landing	67,358	67,484	70,374	72,905	72,905	72,905	72,905	72,905
	Relative value	100.0	100.2	104.5	108.2	108.2	108.2	108.2	108.2
	Gap with present state	0	126	3,016	5,547	5,547	5,547	5,547	5,547
	Accumulated gap	0	126	3,142	8,690	14,237	19,784	25,331	30,878

Table 5-2-7-6 Changes in total catch of all evaluation target species

No. 1 (70mm mesh size regulation in Industrial fisheries)								
	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	5936.6	5496.6	5597.9	5669.2	5673.4	5674.7	5675.0	5675.0
relative value	100.0	92.6	94.3	95.5	95.6	95.6	95.6	95.6
Others catch(tons)	26015.0	26221.7	26416.4	26522.1	26560.9	26573.1	26575.9	26576.4
relative value	100.0	100.8	101.5	101.9	102.1	102.1	102.2	102.2
Total catch(tons)	31951.6	31718.3	32014.3	32191.3	32234.3	32247.9	32250.9	32251.4
relative value	100.0	99.3	100.2	100.7	100.9	100.9	100.9	100.9
No. 2 (80mm mesh size regulation in Industrial fisheries)								
	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	5936.6	4944.7	5099.9	5207.2	5214.9	5217.3	5217.7	5217.7
relative value	100.0	83.3	85.9	87.7	87.8	87.9	87.9	87.9
Others catch(tons)	26015.0	26455.2	26863.2	27070.5	27144.1	27165.0	27169.5	27170.1
relative value	100.0	101.7	103.3	104.1	104.3	104.4	104.4	104.4
Total catch(tons)	31951.6	31399.8	31963.1	32277.6	32359.0	32382.3	32387.1	32387.8
relative value	100.0	98.3	100.0	101.0	101.3	101.3	101.4	101.4
No. 3 (to introduce a closed season for Industrial fisheries from October through December)								
	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	5936.6	4194.7	4677.0	4938.4	4941.6	4942.4	4942.6	4942.6
relative value	100.0	70.7	78.8	83.2	83.2	83.3	83.3	83.3
Others catch(tons)	26015.0	26416.0	26739.5	26892.9	26938.4	26950.7	26953.4	26953.7
relative value	100.0	101.5	102.8	103.4	103.5	103.6	103.6	103.6
Total catch(tons)	31951.6	30610.8	31416.5	31831.3	31880.0	31893.1	31895.9	31896.3
relative value	100.0	95.8	98.3	99.6	99.8	99.8	99.8	99.8
No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)								
	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	5936.6	3899.5	4468.2	4818.1	4823.0	4824.3	4824.5	4824.6
relative value	100.0	65.7	75.3	81.2	81.2	81.3	81.3	81.3
Others catch(tons)	26015.0	26553.3	27015.1	27244.3	27314.0	27333.7	27338.0	27338.6
relative value	100.0	102.1	103.8	104.7	105.0	105.1	105.1	105.1
Total catch(tons)	31951.6	30452.8	31483.3	32062.4	32137.0	32158.1	32162.5	32163.1
relative value	100.0	95.3	98.5	100.3	100.6	100.6	100.7	100.7
No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)								
	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	5936.6	3529.4	4140.5	4531.2	4537.8	4539.6	4539.8	4539.8
relative value	100.0	59.5	69.7	76.3	76.4	76.5	76.5	76.5
Others catch(tons)	26015.0	26709.3	27324.8	27627.7	27721.0	27746.5	27761.8	27752.5
relative value	100.0	102.7	105.0	106.2	106.6	106.7	106.7	106.7
Total catch(tons)	31951.6	30238.7	31465.4	32158.9	32258.8	32286.1	32291.6	32292.4
relative value	100.0	94.6	98.5	100.6	101.0	101.0	101.1	101.1
No. 6 (to introduce a closed period for all fisheries from October through December)								
	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	5936.6	4531.6	5288.6	5707.4	5765.8	5784.3	5789.0	5789.7
relative value	100.0	76.3	89.1	96.1	97.1	97.4	97.5	97.5
Others catch(tons)	26015.0	20523.8	22883.7	24181.4	24758.9	24951.1	25003.6	25011.5
relative value	100.0	78.9	88.0	93.0	95.2	95.9	96.1	96.1
Total catch(tons)	31951.6	25055.4	28172.3	29888.7	30524.7	30735.4	30792.6	30801.2
relative value	100.0	78.4	88.2	93.5	95.5	96.2	96.4	96.4
No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)								
	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	5936.6	5682.7	5996.0	6191.1	6241.3	6257.6	6261.2	6261.8
relative value	100.0	95.7	101.0	104.3	105.1	105.4	105.5	105.5
Others catch(tons)	26015.0	23365.6	25492.7	26692.7	27188.5	27352.0	27392.4	27399.4
relative value	100.0	89.8	98.0	102.6	104.5	105.1	105.3	105.3
Total catch(tons)	31951.6	29048.3	31488.8	32883.8	33429.9	33609.6	33653.6	33661.2
relative value	100.0	90.9	98.6	102.9	104.6	105.2	105.3	105.4
No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)								
	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial catch(tons)	5936.6	5270.7	5898.3	6290.1	6408.4	6445.3	6453.5	6454.7
relative value	100.0	88.8	99.4	106.0	107.9	108.6	108.7	108.7
Others catch(tons)	26015.0	19086.0	23923.9	26667.0	27824.1	28197.3	28289.2	28303.4
relative value	100.0	73.4	92.0	102.5	107.0	108.4	108.7	108.8
Total catch(tons)	31951.6	24356.7	29822.2	32957.1	34232.5	34642.6	34742.7	34758.1
relative value	100.0	76.2	93.3	103.1	107.1	108.4	108.7	108.8

Table 5-2-7-7(1) Changes in total values of gross landing of all evaluation target species

No. 1 (70mm mesh size regulation in Industrial fisheries)		(Unit: million cedi)							
	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year	
Industrial Value of gross landing	103,361	99,210	101,233	102,903	102,969	102,991	102,993	102,993	
Relative value	100.0	96.0	97.9	99.6	99.6	99.6	99.6	99.6	
Gap with present state	0	-4,151	-2,128	-458	-391	-370	-368	-367	
Accumulated gap	0	-4,151	-6,278	-6,736	-7,127	-7,497	-7,865	-8,232	
Others									
Value of gross landing	309,897	312,290	314,750	316,245	316,785	316,949	316,976	316,981	
Relative value	100.0	100.8	101.6	102.0	102.2	102.3	102.3	102.3	
Gap with present state	0	2,393	4,853	6,349	6,888	7,052	7,079	7,084	
Accumulated gap	0	2,393	7,246	13,594	20,482	27,535	34,614	41,698	
Total									
Value of gross landing	413,257	411,499	415,983	419,149	419,754	419,940	419,969	419,974	
Relative value	100.0	99.6	100.7	101.4	101.6	101.6	101.6	101.6	
Gap with present state	0	-1,758	2,725	5,891	6,497	6,682	6,712	6,717	
Accumulated gap	0	-1,758	967	6,858	13,355	20,038	26,750	33,467	
No. 2 (80mm mesh size regulation in Industrial fisheries)									
	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year	
Industrial Value of gross landing	103,361	93,683	96,770	99,259	99,387	99,425	99,429	99,429	
Relative value	100.0	90.6	93.6	96.0	96.2	96.2	96.2	96.2	
Gap with present state	0	-9,678	-6,591	-4,102	-3,973	-3,936	-3,932	-3,932	
Accumulated gap	0	-9,678	-16,268	-20,370	-24,343	-28,279	-32,211	-36,143	
Others									
Value of gross landing	309,897	315,046	320,205	323,145	324,191	324,465	324,509	324,516	
Relative value	100.0	101.7	103.3	104.3	104.6	104.7	104.7	104.7	
Gap with present state	0	5,149	10,309	13,248	14,294	14,569	14,612	14,619	
Accumulated gap	0	5,149	15,458	28,706	43,000	57,568	72,181	86,799	
Total									
Value of gross landing	413,257	408,729	416,975	422,404	423,578	423,890	423,938	423,945	
Relative value	100.0	98.9	100.9	102.2	102.5	102.6	102.6	102.6	
Gap with present state	0	-4,529	3,718	9,147	10,321	10,633	10,680	10,687	
Accumulated gap	0	-4,529	-811	8,336	18,657	29,289	39,970	50,657	
No. 3 (to introduce a closed season for Industrial fisheries from October through December)									
	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year	
Industrial Value of gross landing	103,361	74,039	84,792	91,248	91,303	91,315	91,317	91,317	
Relative value	100.0	71.6	82.0	88.3	88.3	88.3	88.3	88.3	
Gap with present state	0	-29,322	-18,569	-12,113	-12,058	-12,045	-12,044	-12,044	
Accumulated gap	0	-29,322	-47,890	-60,003	-72,061	-84,106	-96,150	-108,194	
Others									
Value of gross landing	309,897	315,512	320,341	322,740	323,345	323,493	323,520	323,524	
Relative value	100.0	101.8	103.4	104.1	104.3	104.4	104.4	104.4	
Gap with present state	0	5,615	10,444	12,843	13,448	13,596	13,623	13,627	
Accumulated gap	0	5,615	16,060	28,902	42,350	55,946	69,569	83,196	
Total									
Value of gross landing	413,257	389,551	405,133	413,988	414,647	414,809	414,837	414,840	
Relative value	100.0	94.3	98.0	100.2	100.3	100.4	100.4	100.4	
Gap with present state	0	-23,706	-8,124	730	1,390	1,551	1,579	1,583	
Accumulated gap	0	-23,706	-31,831	-31,101	-29,711	-28,160	-26,580	-24,998	
No. 4 (70mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)									
	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year	
Industrial Value of gross landing	103,361	71,112	83,542	92,163	92,247	92,269	92,271	92,271	
Relative value	100.0	68.8	80.8	89.2	89.2	89.3	89.3	89.3	
Gap with present state	0	-32,248	-19,818	-11,198	-11,113	-11,092	-11,090	-11,089	
Accumulated gap	0	-32,248	-52,066	-63,264	-74,378	-85,469	-96,559	-107,648	
Others									
Value of gross landing	309,897	317,106	323,755	327,336	328,297	328,551	328,593	328,599	
Relative value	100.0	102.3	104.5	105.6	105.9	106.0	106.0	106.0	
Gap with present state	0	7,209	13,858	17,439	18,400	18,654	18,696	18,702	
Accumulated gap	0	7,209	21,068	38,507	56,907	75,561	94,257	112,960	
Total									
Value of gross landing	413,257	388,219	407,298	419,499	420,544	420,820	420,864	420,871	
Relative value	100.0	93.9	98.6	101.5	101.8	101.8	101.8	101.8	
Gap with present state	0	-25,039	-5,960	6,242	7,287	7,562	7,606	7,613	
Accumulated gap	0	-25,039	-30,999	-24,757	-17,470	-9,908	-2,301	5,312	



Table 5-2-7-7 (2) Changes in total values of gross landing of all evaluation target species

No. 5 (80mm mesh size regulation in Industrial fisheries and to introduce a closed period for Industrial fisheries from October through December)

(Unit: million cedi)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial Value of gross landing	103,361	67,240	80,509	90,118	90,237	90,268	90,270	90,271
Relative value	100.0	65.1	77.9	87.2	87.3	87.3	87.3	87.3
Gap with present state	0	-36,120	-22,851	-13,242	-13,124	-13,093	-13,090	-13,090
Accumulated gap	0	-36,120	-58,972	-72,214	-85,338	-98,431	-111,521	-124,611
Others Value of gross landing	309,897	318,988	327,670	332,381	333,709	334,041	334,093	334,100
Relative value	100.0	102.9	105.7	107.3	107.7	107.8	107.8	107.8
Gap with present state	0	9,091	17,773	22,484	23,812	24,144	24,196	24,203
Accumulated gap	0	9,091	26,864	49,349	73,160	97,304	121,500	145,703
Total Value of gross landing	413,257	386,229	408,179	422,499	423,945	424,308	424,363	424,371
Relative value	100.0	93.5	98.8	102.2	102.6	102.7	102.7	102.7
Gap with present state	0	-27,029	-5,078	9,242	10,688	11,051	11,106	11,113
Accumulated gap	0	-27,029	-32,107	-22,865	-12,177	-1,127	9,979	21,092

No. 6 (to introduce a closed period for all fisheries from October through December)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial Value of gross landing	103,361	78,812	93,854	102,913	103,749	103,980	104,027	104,035
Relative value	100.0	76.2	90.8	99.6	100.4	100.6	100.6	100.7
Gap with present state	0	-24,548	-9,507	-447	388	620	667	674
Accumulated gap	0	-24,548	-34,055	-34,503	-34,114	-33,494	-32,828	-32,154
Others Value of gross landing	309,897	263,071	295,085	312,560	320,118	322,336	322,862	322,942
Relative value	100.0	84.9	95.2	100.9	103.3	104.0	104.2	104.2
Gap with present state	0	-46,826	-14,812	2,663	10,221	12,439	12,965	13,045
Accumulated gap	0	-46,826	-61,638	-58,975	-48,754	-36,314	-23,349	-10,304
Total Value of gross landing	413,257	341,883	388,938	415,473	423,867	426,317	426,890	426,976
Relative value	100.0	82.7	94.1	100.5	102.6	103.2	103.3	103.3
Gap with present state	0	-71,374	-24,319	2,216	10,609	13,059	13,632	13,719
Accumulated gap	0	-71,374	-95,693	-93,477	-82,868	-69,809	-56,177	-42,458

No. 7 (mesh size regulation to equivalent to 70 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial Value of gross landing	103,361	101,415	106,179	109,634	110,350	110,575	110,611	110,617
Relative value	100.0	98.1	102.7	106.1	106.8	107.0	107.0	107.0
Gap with present state	0	-1,946	2,819	6,274	6,990	7,215	7,250	7,256
Accumulated gap	0	-1,946	873	7,147	14,136	21,351	28,601	35,857
Others Value of gross landing	309,897	290,490	318,809	334,775	341,355	343,440	343,836	343,907
Relative value	100.0	93.7	102.9	108.0	110.2	110.8	111.0	111.0
Gap with present state	0	-19,407	8,912	24,878	31,458	33,544	33,940	34,010
Accumulated gap	0	-19,407	-10,495	14,383	45,842	79,385	113,325	147,334
Total Value of gross landing	413,257	391,905	424,988	444,410	451,705	454,016	454,447	454,523
Relative value	100.0	94.8	102.8	107.5	109.3	109.9	110.0	110.0
Gap with present state	0	-21,352	11,730	31,152	38,448	40,758	41,189	41,266
Accumulated gap	0	-21,352	-9,622	21,530	59,978	100,736	141,926	183,192

No. 8 (mesh size regulation to equivalent to 80 mm for all fisheries)

	Present state	1st year	2nd year	3rd year	4th year	5th year	6th year	7th year
Industrial Value of gross landing	103,361	97,678	107,109	113,837	115,598	116,100	116,180	116,192
Relative value	100.0	94.5	103.6	110.1	111.8	112.3	112.4	112.4
Gap with present state	0	-5,682	3,749	10,477	12,237	12,739	12,819	12,832
Accumulated gap	0	-5,682	-1,934	8,543	20,780	33,519	46,338	59,170
Others Value of gross landing	309,897	251,435	320,852	359,490	375,570	380,237	381,141	381,283
Relative value	100.0	81.1	103.5	116.0	121.2	122.7	123.0	123.0
Gap with present state	0	-58,462	10,955	49,593	65,673	70,340	71,244	71,386
Accumulated gap	0	-58,462	-47,507	2,086	67,759	138,099	209,343	280,729
Total Value of gross landing	413,257	349,113	427,961	473,327	491,167	496,337	497,321	497,475
Relative value	100.0	84.5	103.6	114.5	118.9	120.1	120.3	120.4
Gap with present state	0	-64,144	14,703	60,070	77,910	83,079	84,063	84,218
Accumulated gap	0	-64,144	-49,441	10,629	88,539	171,618	255,681	339,899

### 5-3. Analysis of Fish for Mercury (Hg) Levels

In Ghana, the mercury pollution problem has been pointed out. The mercury has flown out from the gold mine and has been detected from the bottom sediment in Tema and Takoradi harbor.

Analysis of fish body for mercury levels has not been conducted so far. In this project, mercury analysis was carried out for ensuring the safety of the fish products.

As the bottom sediment is polluted, demersal fish is more likely to suffer from the pollution source than pelagic fish. Therefore, the following five demersal fish species were selected as the analysis sample.

*Pseudupeneus prayensis* (Evaluation target species)

*Pseudotolithus senegalensis* (Evaluation target species)

*Cynoglossus senegalensis*

*Dentex canariensis* (Evaluation target species)

*Sparus caeruleostictus* (Evaluation target species)

Four species other than *Cynoglossus senegalensis* were chosen from the evaluation target species which are regarded as important species. *Cynoglossus senegalensis*, which is common fish in the fish markets, was chosen because it is more benthonic than any other evaluation target species and it is likely to be polluted by bottom sediment.

Samples were collected at the fifth field survey (July 15 to August 22, 2002). The number of samples of each species was 20. 10 were purchased at the fish market close to Tema harbor and another 10 were purchased at the fish market distant from Tema harbor.

The provisional safety criterion value of 0.4ppm set by Ministry of Health and Welfare in 1974 was also used in this analysis as the limit value.

The implementation of the analysis was entrusted to Noguchi Memorial Institute for Medical Research.

The highest mercury density value was less than 50ppb which was far lower than the limit value (0.4ppm=400ppb), Therefore the safety of fish products was ensured (see ANNEX for details).

## 6. Draft Management Guidelines

Before discussion, we would like to define resource management and fisheries management. Since their traditional definitions are found in a book written by Matsumiya (1996), we would like to refer to his book.

"Resource management is to take measures such as fisheries regulation to maintain the condition of living aquatic resources desirable or to bring the condition close to desirable for human being. Fisheries management is to take measures to maintain the condition of fisheries desirable or to bring the condition close to desirable. Fisheries management is to manage an industry of fishery that follows social and economic rules. It aims as the primary object to maximize gross profits from fisheries."

The concept of fisheries management here includes not only economic factors, such as pricing, distribution of marine products and benefits from by-business, and social factors such as management systems (policy, catch quota) and control organizations (self imposed control, formation of consensus), but also resource management.

Resource management is based on biology. In fishery, however, the concept of resources is considered as an economical concept (meaning those not useful for people are not regarded as living aquatic resources). Thus, the primary factor of fisheries management is to maintain resources at an appropriate level or to make them close to that level. A typical method of resource management is fisheries regulation. Releasing seedlings and cultivating fishing zones and spawning areas are also included in resource management. Fisheries management and fisheries regulation are confusable. However, in principle, fisheries management includes resource management, resource management includes fisheries regulation (fisheries management > resource management > fisheries regulation).

The above perception is based on the concept that resources

have economical values. However, in recent years, this fishing industry-oriented concept has come to a turning point. For example, an increasing number of people have asserted the preservation of diversities of species. In other words, living creatures with no economical values and living creatures harmful to people (or fisheries) should be also regarded as resources so far as they are needed to preserve the sound eco-system.

As mentioned above, from now on, we should not stick to the concept of species useful for fishery. Instead, we have to have a view of including broader living creatures into resources. In addition, we should not engage any actions that lead to the destruction of the eco-system by, for example, releasing a large amount of seedlings into nature which result in an imbalanced eco-system. In other words, when people manage a resource subject to fishing, they should also consider the management of the eco-system behind the resource (other diverse species).

Therefore, from now on, people should have a perception that fisheries management is one of the factors in the broad concept of resource management.

However, in reality, among people's activities over living aquatic resources, fishing is dominant. In case when the highest priority is found in restoring a resource overfished, fisheries management becomes equal to resource management, and no difference is found between them. When you try to restore a resource decreased due to fishing by refraining fishing, you do not need to pay attention to other species in the eco-system. This report also uses fisheries management, resource management, and fisheries regulation with no discrimination.

## 6-1. Target Fisheries and Target Species for Management

The Government of Ghana classifies target fisheries into Industrial Fisheries (trawl net).

Management target species are the following evaluation target species (demersal fishes) that were decided in consultation by and between the Fisheries Department of Ghana and Japan at the first field survey.

*Decapterus rhonchus*

*Galeoides decadactylus*

*Brachydeuterus auritus*

*Pomadasyus incisus*

*Pseudotolithus senegalensis*

*Dentex canariensis*

*Sparus caeruleostictus*

*Pagellus bellottii*

*Pseudupeneus prayensis*

*Sepia officinalis*

## 6-2. Idea of Management

In general, fishery resources are ownerless objects whose ownership takes effect only when they are caught. Fishery resources are, in principle, open to and available for anyone. However, if no control is imposed on fisheries, people will continue to enter into fisheries and overfishing will be inevitable. This is why many countries introduce a permit system to safeguard fishery resources from random fishing. Nevertheless, such a permit system alone cannot safeguard fishery resources from overfishing because competitions among a limited number of fishermen will also lead to overfishing.

Resources of demersal fishes in the water of Ghana were developed rapidly by large-scale trawlers, and such resources entered into the initial stage of decreased resources. In those days, since fishing abilities of canoes and Semi-Industrial fisheries boats were limited to coastal waters and their fishing tools and methods were small-scaled, their impacts on bottom fish resources seemed minor. However, in recent years, canoes and Semi-Industrial fisheries boats have been increased in size and motorized; fishing tools have been improved; and fishing methods have been diversified. All of them have led to remarkable increases in catch quantity. For example, 70 to 80% of total demersal fish catch quantity has been made by these small- and medium-scale fishing boats in recent years. What is worse, since these fishing boats come under no restriction of fishing zones and mesh size regulation, they tend to overfish young fishes and premature fishes. This can endanger the effective use of fishery resources. Actually, signs of overfishing have been observed in many kinds of fishes. Overfishing was observed among a half of the evaluation target species, indicating deteriorated conditions of fishery resources.

Ghana has a long history of preferences over fishery products. Its annual consumption of fishery products per person reaches some 25 kg (Japan, 75 kg). The number of workers engaging in fishery business totals 500,000, which accounts for some 5% of

the total workforce in Ghana. In other words, fishery plays an important role in food supply and employment in Ghana. If fishery resources of target species should be depleted, it will impact not only fishermen but also ordinary people in Ghana. Ghana is now urged to introduce measures to recover fishery resources.

The Government of Ghana is also aware of the fact that fishery resources are becoming scarce. In 1994 the National Development Planning Commission (NDPC) released a plan titled the "Ghana Vision 2020" which describes fishery policies as follows:

- Promoting the development of the aquiculture industry
- Introduction of a system to monitor fishery resources and restrictions of fishing methods to protect resources
- Exploring demand and expanding the domestic market

These policies match with the sustainable use of fishery resources, which is considered as the most important object of fishery resource management described in FAO's "CODE OF CONDUCT FOR RESPONSIBLE FISHERIES." The above-mentioned "introduction of a system to monitor fishery resources and restrictions of fishing methods to protect resources" are materialized in a concrete plan titled "Review of Management Plan" (formal name: REVIEW OF AND RECOMMENDATIONS TO OPERATIONALISE MARINE FISHERIES POLICY AND MANAGEMENT PLAN FOR GHANA) released by FMOC (Fisheries Management Operation Committee) in 2000. According to this plan, fishery in Ghana is facing various problems and they come to the surface in the form of biological overfishing and excessive economical investment. The plan also describes that the objects of Ghana's fishery resource management are to restore fishery resources (especially demersal fishes) to a sustainable level; to cut excessive fishing boats and fishing tools; and to maximize the contribution of fishing industry to the the Ghanaian economy.

As a whole, Ghana's recognition of the present fishery conditions and objects of fisheries management are clear and

reasonable. Although no sufficient scientific ground of the "biological overfishing" mentioned above is described in the Fisheries Management Plan and other documents released earlier than the plan, the result of this project has revealed that many of the evaluation target species were overfished or being overfished. We could say that descriptions in the Review of Management Plan are correct.

On the other hand, however, the plan seems not necessarily to point out the essential causes of the present problems in fishery.

That can be observed in the following short-term and long-term management means in fishery described in the Fisheries Management Plan:

- Short-term means

Ban on new comers into trawlers

— Ban on importing trawlers and on issuing new licensees to industrial fisheries boats --

Setting the closed season to industrial fisheries

— Industrial fisheries' fishing operation is banned for the three months from October to December for three consecutive years. If no remarkable effects are observed, industrial fisheries will be suspended completely.

Expanding closed areas to trawl fishing in coastal waters

— Shifting the zone from the present 30 meters of water depth to within 12 nautical miles (meaning that a half of the continental shelf of Ghana is closed to trawl fishing, which significantly expands closed areas to trawl fishing).

Implementing the strict compliance of mesh size regulation

Banning beach seine fishing

Banning gill net fishing of shrimps by Artisanal and banning fishing in the mouth of rivers where premature shrimps grow



· Long-term measures

Limiting the tonnage of fishing boats

Limiting the number of fishing boats based on TAC (total allowable catch)

— The Fisheries Department determines TAC and accordingly the number of fishing boats that are allowed to fishing

Enlarging mesh size of cod-ends

— Enlarging mesh size from the present 60 mm to 75 mm

Encouraging fishermen to have vocational training

— To encourage workers, especially young fishermen to take vocational training for other than fishing, such as aquaculture, poultry, masonry, and carpentry. This will lead to reducing fishery pressure on resources and to relieving poverty problems in fishing villages.

These measures are generally very harsh to Industrial fisheries. For example, closed season to Industrial fisheries are set up (when no effects are seen, Industrial fisheries will be suspended completely) and closed areas to trawl fishing in coastal waters are expanded. When these measures are actually applied, Industrial fisheries will be wiped out in such marine zones. This is by reason that the Government of Ghana intends to maintain catch quantity for canoe fishing by restricting Industrial fisheries because canoe fishing is the livelihood for artisanal fishermen.

The above attitude indicates the perception of Ghanaian people that the present major problems derive from Industrial fisheries and that, therefore, they will be solved when Industrial fisheries is controlled.

However, since the fact is most of the evaluation target species are caught by Artisanal and Semi-Industrial fisheries, it is clear that biological overfishing has been attributable mainly to Artisanal and Semi-Industrial fisheries. The number of registered Industrial fisheries boats has also been flat in

recent years. The number of active fishing boats is also on the decrease due to their aging. Meanwhile, the number of canoes for Artisanal fishing has been on the increase. An increasing number of Semi-Industrial fisheries boats have been increased in size and motorized. Fishing tools and fishing methods have been diversified. When these points are taken into consideration, it is clear that excessive economical investment has been brought mainly by Artisanal and Semi-Industrial fisheries. Under these circumstances, it seems that restricting Industrial fisheries alone will not bring about the effective management of resources as you expect.

The idea of resource management should not be an ideal image without any grounds. It should be based on the correct perception of the present conditions that are analyzed based on scientific ground. In other words, the correct idea of resource management should be equipped with concrete and feasible management measures and management objects for the future.

Thus, we would like to propose that the Government of Ghana review the causes of the present problems by making the most of the information obtained from this project before implementing resource management programs. The review will surely lead to finding a better means of resource management that is consistent with the present conditions from short-term and long-term viewpoints.

On the other hand, the Fisheries Management Plan describes that the Government of Ghana should adopt the aforementioned means of short-term and long-term resource management and enforce them to achieve the object of resource management. As you may know, means are part of tactics but not part of strategy. In other words, the Fisheries Management Plan lacks strategy. Tactics is like symptomatic treatment against sickness, while strategy is like allopathy. Allopathy is a process that cures the sick conditions of a person; that finds the cause of the sickness; and that determines a means to avoid the recurrence of the sickness. The process is essential for allopathy (strategy). Introduced below is part of our resource

management strategy that we propose for Ghana.

Resource management is usually carried out based on one of the following three basic strategies:

- (1) Constant Escapement Strategy (CES)
- (2) Constant Harvest Rate Strategy (CHR)
- (3) Constant Catch Strategy (CCS)

CES aims to maintain remaining resource volumes (adult fish volumes) at a certain level after fish catches every year. This strategy includes the TAC (total allowable catch) setting described in the Fisheries Management Plan. CHR aims to control the rate of fishing (exploitation rate). Mesh size regulation and setting closed season for fishing belong to this strategy. CCS aims to control fixative fishery resources in coastal waters, such as abalones. This strategy tends to set fish catches based on past experiences and on trials and errors; in case resources fluctuate greatly, the strategy may invite overfishing. Therefore, a reasonable means of resource management based on scientific ground lies in either CES or CHR.

In CES, allowable catch quantity for a year is determined by subtracting adult fish volumes, which are necessary for spawning, from the total resource volumes for the year. Our simulation carried out this time presents foreseeable changes in resource volumes when resource management is implemented. However, the simulation disregards natural fluctuations and foresees the average tendency in resources. In order to implement CES, you must estimate resource every year taking natural fluctuations into account before calculating annual allowable catches. In this respect, CHR allows you to set means of resource management for coming several years according to the result of the simulation for the future. This is because the strategy sets fish catches according to resource volumes fluctuated by natural conditions. In this sense, the Constant Harvest Rate Strategy is more feasible than the Constant Escapement Strategy.

However, a general principle of FAO's Code of Conduct for Responsible Fisheries states that:

"The right to fish carries with it the obligation to do so in a responsible manner so as to ensure effective conservation and management of the living aquatic resources. "

For the conservation, management and sustainable use of living aquatic resources, the Constant Escapement Strategy is the most effective means. The Constant Harvest Rate Strategy could dry out resources because the strategy allows fishermen to take a certain rate of resources even in a condition where resources decrease critically due to some natural factor so that fishing should be avoided. The Constant Escapement Strategy with TAC settings seems to be most suitable to maintain the necessary adult fish volume for the sustainable use of natural resources. An increasing number of nations in the world have been adopting TAC settings for many species.

As mentioned above, the Government of Ghana should adopt the Constant Harvest Rate Strategy (introducing closed season for fishing and mesh size regulation as planned now) at the beginning to improve resource conditions. After this resource management gets on track, the government should discuss the introduction of TAC settings into resource management.

### 6-3. Forecasting Management Means and Effects

As mentioned above, the Government of Ghana should adopt the Constant Escapement Strategy with TAC settings for the final management means. However, for the time being, the government is urged to adopt the Constant Harvest Rate Strategy, which is easy to implement, in order to improve resource conditions.

According to the result of our aforementioned hearing surveys, there are two methods that target Industrial fishery can accept -- setting closed season to fishing and regulating mesh size to protect premature fishes. Since these methods match with the policies of the Government of Ghana described in the Review of Management Plan, they are considered to be quite feasible.

Chapter 5-2-7 forecasts changes in the number of stock, catch quantity, and values of gross landing of evaluation target species when these two methods of resource management are implemented. The forecast has revealed that controlling Industrial fisheries alone has brought about almost no effects as a whole. This is because implementing mesh size regulation and setting closed season to Industrial fisheries alone will reduce the fish catches and values of gross receipts of Industrial fisheries but lead to an increase in the fish catches and values of gross receipts by other fisheries. As a whole, fish catches and values of gross landing remain unchanged. In addition, we have forecasted that controlling Industrial fisheries alone hardly improves the resource conditions. Controlling Industrial fisheries alone is, in an extreme instance, like transferring a part of the present fish catches by Industrial fisheries to other fisheries. This means that controlling Industrial fisheries alone contributes to neither sustainable use of resources nor the Ghanaian economy if the resource conditions, total fish catches, and values of gross receipts remain the same as before.

The reason that controlling Industrial fisheries alone has

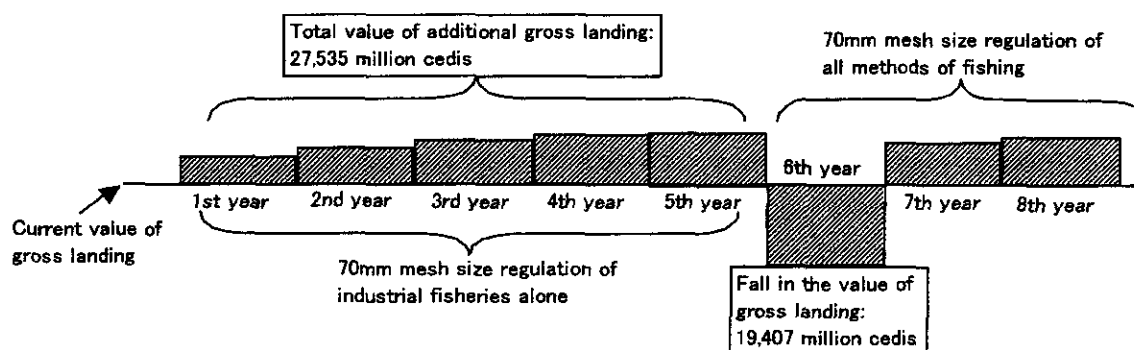
brought about no remarkable effects lies in the fact that over 80% of the evaluated target species is caught by Artisanal and Semi-Industrial fisheries and that a little less than 20% of the evaluation target species is caught by Industrial fisheries.

Meanwhile, we forecast that if all methods of fishing are managed uniformly, catch quantity and values of gross receipts will increase in all methods of fishing in seven years. Moreover, resource conditions are also likely to improve.

Therefore, all of the fishing methods that catch management target species must be controlled to implement effective resource management. However, it seems impossible to start controlling all methods of fishing at once because the Government of Ghana is preparing for the control of Industrial fisheries alone. Thus, we propose that the Government of Ghana introduce step-by-step resource management programs into fishery.

For example, the first stage of the management programs is to introduce mesh size regulation into Industrial fisheries; several years later, the same mesh size regulation should be introduced into Semi-Industrial and Artisanal fishing as the second stage of the management program. More specifically, suppose that 70-mm mesh size regulation is introduced into Industrial fisheries alone for five years, followed by the same degree of regulation of other fisheries from the 6th years. Under these suppositions, we forecast changes in the values of gross landing based on the information obtained from our project. When 70-mm mesh size regulation is introduced into Industrial fisheries alone for five years, other fisheries will enjoy increased values of gross receipts from the first year. The estimated value of these increases for the five years totals 27,535 million cedis (Simulation No. 1 in Table 5-2-7-7). Introducing the same degree of regulation into other fisheries from the 6th year is meant to shift simulation No. 1 to Simulation No. 7 (the mesh size for all the fisheries are enlarged to 70-mm Industrial mesh equivalence). When simulation No. 7 is introduced for resource management, the

fall of gross landing of other fisheries for the initial year will be 19,407 million cedis (Table 5-2-7-7). The increased value for the past five years (27,585 million cedis) is enough to offset the fall. Since the values of gross landing of other fisheries in simulation No. 7 are expected to exceed the current values from the second year, you don't need to think of the subsequent years.



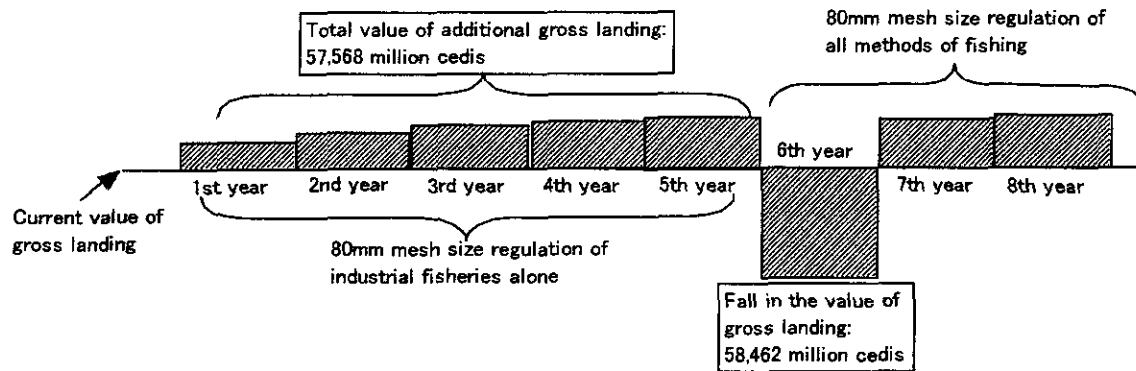
Changes in Values of Gross Landing of Other fisheries  
When Step-by-Step Resource Management is Implemented  
70mm mesh size regulation of industrial fisheries  
(1<sup>st</sup> to 5<sup>th</sup> year) and all methods of fishing (from 6<sup>th</sup> year)

Furthermore, after the five-year control of Industrial fisheries (simulation No. 1), the stock numbers in all species indicate a slight increase over the current situation (Table 5-2-7-3). Therefore, the introduction of mesh size regulation into other fisheries from the 6th year is expected to make a fall in the value of gross landing smaller than 19,407 million cedis.

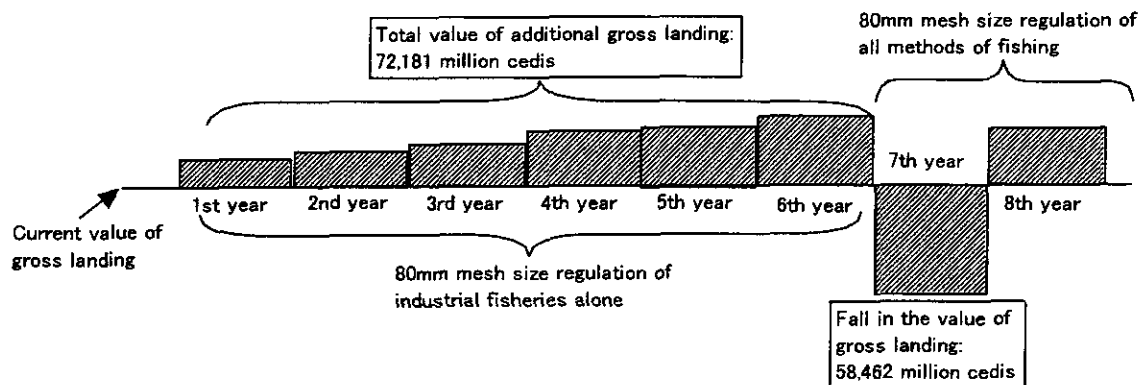
This method of fishing will allow Artisanal and Semi-Industrial fishermen to save profits gained during the past five years in preparation of a (artificial) poor catch in the 6th year. In other words, the Government of Ghana does not need to prepare for the compensation for Artisanal and Semi-Industrial fishermen for the fall of gross receipt in the 6th year. After Industrial fisheries suffers from falls in the values of gross landing for several years, the fishing will come to enjoy constant increases in the values of gross landing.

Shown below are some examples of the changes in values of gross landing of other fisheries when step-by-step resource

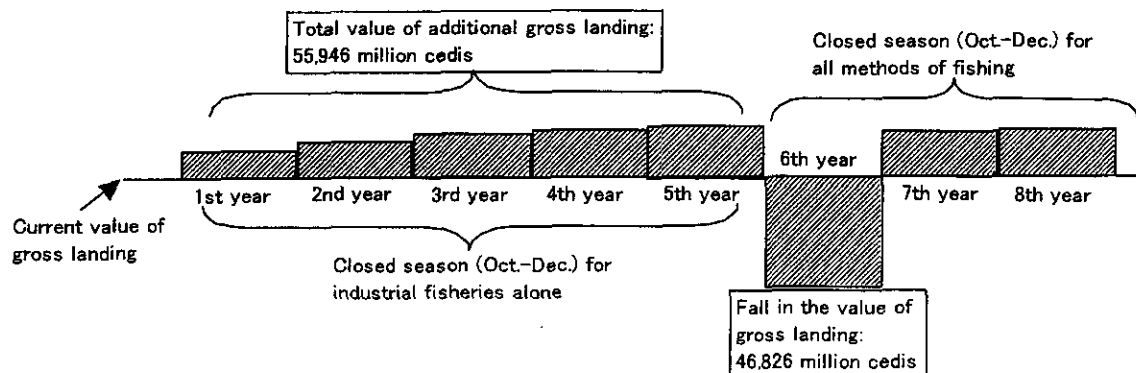
management is implemented.



80mm mesh size regulation of industrial fisheries (1<sup>st</sup> to 5<sup>th</sup> year) and all methods of fishing (from 6<sup>th</sup> year)



70mm mesh size regulation of industrial fisheries (1<sup>st</sup> to 6<sup>th</sup> year) and all methods of fishing (from 7<sup>th</sup> year)



Closed season (Oct.-Dec.) for industrial fisheries (1<sup>st</sup> to 5<sup>th</sup> year) and all methods of fishing (from 6<sup>th</sup> year)



Our analogy resulting from this simulation forecasts that resource management will be effective when all methods of fishing are subject to 75-mm or 80-mm mesh size or the equivalent regulation, or when closed fishing season are introduced, or when Industrial fisheries is subject to mesh size regulation while closed season is imposed on other fisheries. Whatever fisheries management the Government of Ghana may introduce, step-by-step control in the order of Industrial fisheries, and then Artisanal and Semi-Industrial fisheries will bring about effective resource management without damage to Artisanal and Semi-Industrial fisheries.

The Government of Ghana needs to seek for a concrete method in order to implement the most effective mesh size regulation for Artisanal and Semi-Industrial fisheries, which is expected to be the most effective resource management method. Many of Artisanal and Semi-Industrial fishermen engage in non-net fishing like long-line fishery. In addition, the same 60-mm mesh size, used for Industrial fisheries, is not always used for net fishing in Artisanal and Semi-industrial fisheries. The Government of Ghana needs to find a method that will bring about the same effects that Industrial fisheries has brought about when the mesh size was changed from 60 mm to 70 mm or from 60 mm to 80 mm. Since mesh size regulation aims to avoid small fishes from being caught, to gain the same effect mentioned above is not limited to enlarge mesh size. A number of methods are available for gaining the same effects. For example, fishing zones, where many small fishes grow, can be designated to closed areas to fishing. Likewise, periods, during which many small fishes grow, can be designated to closed periods to fishing. The Fisheries Department of the Government of Ghana will need to predict quantitative effects of these control methods.

Our simulation is made on the assumption of no recruit of new fishing boats in all methods of fishing. The number of active Industrial fisheries boats is on the decrease due to their aging. Meanwhile, the number of canoes for Artisanal fishing is

on the increase. If the government continues to take no action to control new comers in Artisanal fishing, the economical excessive investment will continue. The Fisheries Department needs to find a method for controlling the number of Artisanal fisheries canoes.

Whatever control method the Fisheries Department may introduce into Ghanaian fisheries, to have a system that can enforce the management method and monitor its effects is necessary.

We asked officials of the Fisheries Department of Ghana about methods of managing Artisanal and Semi-Industrial fisheries. The answer was that since the Fisheries Department has adopted the Co-Management (CM) approach to manage Artisanal and Semi-Industrial fisheries, the government should not force its management method into these fisheries.

CM approach (discussed below) is reasonable. However, unless some concrete measure such as mesh size regulation or a closed season is introduced into current Artisanal and Semi-Industrial fisheries, regardless of whether the control is initiated by the CM approach or by the Government of Ghana, resources will not increase. The CM approach seems easier to enforce than the government-initiated control, but the method to control itself remains the same. Although fishermen should select a feasible management method, the research institute concerned is responsible for offering options of effective management method based on scientific ground. In Ghana the responsibility is attributable to the Fisheries Department.