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SOUTH PACIFIC COMMISSION

FOURTEENTH REGIONAL TECHNICAL MEETING ON FISHERIES

(Noumea, New Caledonia, 2-6 August 1982)

COUNTRY STATEMENT - NEW ZEALAND

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SUMMARY

The rapid growth which has characterised the New Zealand fishing industry in recent years has slowed during the past 12 months. For some preferred species catches have declined even though catching effort continues to increase. Just how much additional fishing many stocks will sustain and still support economic operations is uncertain. The pressure in some instances is thought to be excessive and further work is needed to more accurately establish fish stock size and to allow appropriate management strategies to be developed.

The latest available fisheries statistics for the 1981 calendar year indicate that a fleet of 5 380 vessels (5 067 domestic, 108 joint venture, 205 licensed) fished. Joint venture vessels took over 100 000 t, the major species being deep sea perch, oreo dory, hoki, barracouta, and squid. Licensed vessels took over 87 000 t. Details of the domestic catch were not available.

Exports of fisheries produce totalled more than 128 000 t valued at over \$190 m (NZ). The bulk of the exports were of finfish although rock lobsters and squid were also major earners. A significant quantity of exports was purchased by Pacific States.

Over \$24 m worth of fisheries products were imported.

The Government has instituted various budgetary measures to assist the fishing industry. Fisheries research and management are proceeding. The future of the fishing industry is considered to be favourable in the medium to long term.

NEW ZEALAND

COUNTRY STATEMENT

I. INTRODUCTION

The rapid growth which has characterised the New Zealand fishing industry in recent years has slowed during the past 12 months. For some preferred species catches have declined even though catching effort continues to increase. Just how much additional fishing many stocks will sustain and still support economic operations is uncertain. The pressure in some instances is thought to be excessive and further work is needed to more accurately establish fish stock size and to allow appropriate management strategies to be developed.

Since the introduction of the 200 mile exclusive economic zone (EEZ) in 1978, capacity to catch fish in offshore waters has increased greatly and this capacity now exceeds the estimated sustainable yield of some of the high-valued deep water species. Initially foreign vessels were licensed to harvest the resource and cooperative ventures were introduced to allow New Zealand (NZ) firms to partner overseas operators and thereby develop the skills and technology to exploit the deep water resources themselves. A number of medium-sized NZ-owned vessels are now able to successfully fish in deep waters and this year the Government approved the importation of two large deep water vessels. With the pressure on the resource increasing and joint venture approvals due to expire next year a reappraisal of the deep water fleet is required. A clear policy for future NZ involvement has yet to be agreed upon, but work on the form of such a policy is continuing. In the

meantime species limits have been revised with preference going to domestic fishermen, followed by joint ventures and foreign licensed vessels.

Coastal waters are under extreme fishing pressure and a moratorium on the issue of further permits was imposed in March 1982. This is a short-term measure to stabilise the industry while longer-term fisheries management plans are developed in consultation with industry and other groups using marine resources. Regional Fisheries Management Committees are being established at major fishing ports to allow participation of local groups. A National Fisheries Management Advisory Committee was established in February 1982 to allow full industry involvement in fisheries management at a national level.

The Fisheries Act 1908 is being rewritten to cater for developments in the industry over recent years and to allow effective management of the resources.

II. PRODUCTION

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1. Fishing fleet

The latest available statistics are for 1981 when a fleet of 5 380 vessels fished including 5 067 domestic vessels, 108 joint venture vessels, and 205 licensed vessels. The breakdown of vessels by size is not available for 1981 but an indication of the vessel size distribution can be gained from 1980 statistics (Table 1). Foreign involvement in licensed and joint venture fishing in New Zealand in 1981 is indicated in Table 2.

Vessels which fished for tuna in 1981 included 176 domestic (128 albacore surface trolling vessels, 41 southern bluefin trolling vessels, 7 skipjack purse seiners), 12 joint venture (purse seiners fishing for skipjack), and 95 licensed (84 Japanese longliners fishing for southern bluefin, 11 Korean longliners targeting for albacore and yellowfin tuna).

2. Catches by joint venture vessels

Joint venture trawl catches in 1981 are shown in Table 3. Over half of the catch was made up of 5 species including deep sea perch (23 727 t), oreo dory (21 468 t), hoki (15 310 t), barracouta (10 177 t), and squid (7 883 t).

The joint venture squid catch (jigging) was about 32 000 t.

The joint venture skipjack catch by purse seine vessels was 4 743 t.

3. Catches by licensed vessels

The 1981 catches are listed in Table 4. Japan was the major licensed fishing country followed by Russia and Korea. The catch was made up largely of finfish followed by squid and tuna.

4. Catches by New Zealand domestic vessels

These data are not yet available.

III. PROCESSING AND MARKETING

A programme to ensure internationally recognised hygiene standards for fish-packing houses and vessels licensed to process at sea is proceeding. Processing methods, the control of fish temperatures, transport, and export procedures come under a programme administered by the Ministry of Agriculture and Fisheries (MAF). Routine supervision of premises and products is done and all fish exported is certified as complying with certain standards.

1. Fisheries exports

Exports of fisheries produce in 1981 totalled more than 128 000 tonnes (t) valued at over 190 million dollars (NZ) (Table 5). These exports were up about 17% in both quantity and value over 1980 when 110 000 t earned \$162 m.

The bulk of the 1981 exports were of finfish (92 000 t, \$117.2 m) with big earners being snapper (7 000 t, \$20.1 m), skipjack (7,000 t, \$3.4 m), warehou (3,500 t, \$5.6 m), deep sea perch (3 600 t, \$7.6 m), and hoki (8 400 t, \$6 m).

Rock lobsters were a major export earner (2 300 t, \$35.6 m), as were squid (32 000 t, \$27.8 m), and paua (296 t, \$4.2 m).

Fisheries exports include both domestic and joint venture catches.

2. Exports to Pacific Ocean States

These are listed in Table 6 for 1981. These data have been presented because of their particular relevance

to participants at the South Pacific Commission Fourteenth Regional Technical Meeting on Fisheries. Countries which purchased major quantities of New Zealand fish produce in 1981 included Australia, American Samoa, Papua New Guinea, and Fiji.

- 3. Exports to other countries
- (a) Southeast Asia and Far East
 Fish and fish preparations \$50.7 m, Rock lobsters \$5.1 m,
 Shellfish \$29 m.
- (b) North and Central America Fish and fish preparations \$7.5 m, Rock lobsters \$25.8 m, Shellfish \$646 000.

(c) <u>Europe</u> Fish and fish preparations \$6.7 m, Rock lobsters \$255 000, Shellfish \$2.5 m.

- (d) <u>Middle East</u> Fish and fish preparations \$2.9 m, Rock lobster \$115 000, Shellfish \$707 000.
- (e) <u>Africa</u> Fish and fish preparations \$2.4 m, Shellfish \$40 000.
- (f) <u>USSR</u> Fish and fish preparations \$3.6 m, Shellfish \$1.2 m.
- (g) <u>Other</u> Shellfish \$83 000.
- 4. Imports

Total imports of fisheries products in 1981 weighed 5 392 t valued at \$24.4 m (Table 7). This was up on the 1980 volume by over 30% and in value by almost 5%. Major items imported included canned salmon, sardines, herrings and pilchards, and fresh crustacea and molluscs.

IV. GOVERNMENT

1. Budget

In recent years over 50% of the volume of fisheries exports has come from joint venture fishing. This type of fishing activity is expected to level off.

In the next few years the industry will undergo a period of adjustment to such factors as inshore resource limitations and the high costs of fuel and fishing equipment.

The 1981 budget introduced the following measures to assist the domestic industry and to encourage restructuring where appropriate to enable expansion into underexploited fisheries:

- (a) One million dollars to support a finfish price stabilisation scheme;
- (b) The addition of chilled bluefin and albacore to the list of fish species qualifying for export performance taxation incentives;
- (c) One hundred thousand dollars for deep-sea training for commercial fishermen;

The budget also extended to 31 March 1983:

- (d) The investment allowance for new fishing vessels;
- (e) The tax concession for development of rock oyster, mussel and freshwater fish farms.

2. Fisheries Research and Management

(a) Deep water Fishery

At the time that NZ formally introduced its 200 mile EEZ (1 April 1978), the deep water fishery was widely viewed as a source of substantial new overseas earnings from exports and an attraction for overseas investment. What followed was dramatic expansion in the fishing industry through the introduction of joint venture and cooperative fishing and marketing, the importation of a number of large vessels, and the continuation of licensing of foreign fishing vessels.

Research and fishing experience have shown that many of the stocks of deep water species are limited in size, and there are indications that fleet development has continued to the point where there is excess catching capacity. Catch limits on some species have been introduced and others are required. Further, there would appear to be a need to reduce catching capacity.

For the 1981/82 season (to 31 March 1982 for finfish, to 31 August 1982 for trawl-caught squid) the total allowable catches (TACs) from the EEZ were 379 000 t for finfish and 50 000 t for squid.

Research is being conducted on many of the deep water species including deep sea perch, oreo dories, ling, silver warehou, squid, and barracouta, to enable assessments of stock density on which to base recommendations for management strategies.

(b) Coastal fishery

Several coastal fisheries are under stress. Consequently a moratorium on the issue of further fishing permits (excluding fishing for tunas) was declared in March 1982. This measure has been implemented to stabilise the industry while other management measures are introduced.

Measures being considered are controlled fisheries (already in place for the NZ rock lobster fishery and others), and fisheries management plans which allow for specific management measures at the local level developed in consultation with industry.

Research is progressing in 4 areas:

- * <u>Tuna</u>: where there are several developing fisheries with considerable export potential;
- * <u>Coastal pelagic fish</u>: where there are some underutilized resources as well as some species under threat or over-exploited;
- * <u>Coastal demersal fish</u>: where there is over-exploitation and the need to limit effort and catches in many areas;
- * <u>Aquaculture and genetic studies</u>: where work can have implications for stock management or for farming of selected species.

3. Joint venture and foreign licensed fishing

A 12-month extension of joint venture and foreign licensed deep water demersal fishing was announced by Government in October 1981 pending the completion of a major review by mid 1982 to determine optimal use of the deep water resource. The extension has been modified to run to March 1983.

V. CONCLUSION

There is a basic long-term reason for optimism in the future of the fishing industry which is that all projections of future international supply and demand indicate that, on a global basis, demand for fish and fisheries products will exceed supply. Developing fishing industries must expect initial difficulties as they move to build the necessary infrastructure and fund the high cost of investment, but the expectation is that realisations from the sale of good fish will meet the costs of exploiting them. The outlook is therefore considered to be favourable in the medium to long term.

VI. STATISTICS

The statistics presented in the tables are the most recent available and apply to the 1981 calendar year unless specified otherwise. The sources of the data in each of the tables are as follows: Table 1, NZ Ministry of Agriculture and Fisheries, Economics Section; Table 2, MAF, Fisheries Research Division logbook records; Table 3, NZ Fishing Industry Board Annual Report for 1982; Table 4, as for 3; Table 5, MAF; Table 6, as for 3; Table 7, NZ Department of Statistics.

VII. AUTHORSHIP

This paper was prepared by Dr George Habib of Fisheries Research Division, N.Z. Ministry of Agriculture and Fisheries, Wellington, New Zealand.

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TABLE 1: SIZE DISTRIBUTION OF 1980 NEW ZEALAND FISHING FLEET *

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Vessel length range (overall) No. of Vessels
Less than 6 m	2 640
6 – 9 m	1 247
9 - 12 m	725
12 - 15 m	360
15 - 18 m	116
18 - 21 m	59
21 - 24 m	37
24 - 27 m	7
27 - 30 m	20
30 - 33 m	5
More than 33 m	131
* Domestic and joint To venture vessels v	7 14/

TABLE 2: FOREIGN INVOLVEMENT IN LICENSED AND JOINT VENTURE FISHING IN NEW ZEALAND IN 1981

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Fishing Method	,	<u></u>	Cour	ntry	* 1.4 * * * * # ###*#######################		
	Japan	Russia	Korea	Taiwan	Poland	U.S.A.	Total
Trawl/Licensed	11	23	1		-		35
Trawl/Joint Venture	12	26	2	-	1	-	41
Squid/Licensed	71	-	4	-	-	-	75
Squid/Joint Venture	17	-	3	31	-	-	51
Squid netting/Joint Venture	-	-	-	4	-	-	4
Longlining/Licensed	84	-	11	-	-	-	95
Purse seining/Joint Venture	-	-	-	-	-	12	12
							······
Total *	195	49	21	35	1	12	313

* Not all vessels fished at the same time or for the full year, largely because the seasons for the different species of fish are different in both timing and length. Therefore actual presence of vessels at any particular time was considerably less than the total indicated in Table 2.

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TABLE 3: JOINT VENTURE TRAWL CATCH BY SPECIES IN THE 1981 NEW ZEALAND FISHERY

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Species	Catch (t)
Deep Sea Perch (Orange Roughy)	23 727
Oreo Dory	21 468
Hoki	15 310
Barracouta	10 177
Jack Mackerel	3 825
Hake	3 324
Ling	2 226
Southern Warehou	2 046
Southern Blue Whiting	1 940
Common Warehou	1 877
Kingfish	1 367
Gemfish	416
Shark	315
Red Cod	289
Tarakihi	270
White Warehou	220
Groper	60
Snapper	54
Other	3 5 3 1
Squid	7 883
Total	100 325

> TABLE 4: CATCHES BY COUNTRY AND METHOD MADE BY FOREIGN LICENSED VESSELS IN THE NEW ZEALAND FISHERY IN 1981

	Japan	Russia	Korea	Total
Finfish - trawl catch	28 842	14 365	1 188	44 395
Squid - trawl catch	7 090	6 570	428	14 088
Squid - jig catch	20 570	-	1 527	22 097
Tuna - longline catch *	6 559	-	-	6.559
Total	63 061	20 935	3 143	87 139

* Includes southern bluefin (5 074.24 t), bigeye
(385.21 t), yellowfin (73.67 t), albacore (471.04 t),
and swordfish (554.87 t).

TABLE 5: TOTAL WEIGHT AND VALUE OF FISHERIES PRODUCE EXPORTED FROM NEW ZEALAND FOR 12 MONTHS ENDED DECEMBER 1981

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Species	12 Months to December
	Weight Kg F.O.B. \$
FINFISH - Fresh, excluding fillets	
Blue Cod	7 420 57 832
Eels - Live	254 859 630 285
- Other	305 189 570 870
Flounder and Sole	165 3 35 458 199
Groper	188 091 618 668
John Dory	405 060 1 217 724
Snapper	2 464 582 7 519 488
Tarakihi	3 579 11 417
Southern Bluefin Tuna	900 5 389
Other	813 802 677 928
Total	4 608 817 11 767 800
FINFISH - Frozen, excluding fillets	
Blue cod	21 169 20.854
Deep Sea Perch	1 693 242 1 681 475
Eels	529 769 1 242 406
Flounder	491 745 1 060 173
Groper	77 759 194 867
Gurnard	33 977 45 632
John Dory	129 348 196 638
Hake	1 151 157 1 951 781
Oreo Dory	5 642 473 2 368 634
Hoki	6 571 63 5 3 791 94 8
Kahawai	1 167 335 621 182
Kingfish	1 153 931 1 543 214
Ling	1 363 768 2 202 501
Mackerel - Jack	5 353 316 3 552 794
- Blue	1 579 870 684 786
Moki	4 420 2 072
Monkfish	404 378 660 236
Sth Blue Whiting	763 014 266 238
Red Cod	245 772 110 778
Snapper	4 388 023 11 848 365
Sole	1 092 551 2 552 529

TABLE 5: (continued - 2)

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Species	Weight F.O.B.
FINFISH - Frozen, excluding Fill	
(Cont'd Tarakihi	205 696 343 1
Trevally	2 385 697 2 643 38
Tuna - Albacore	2 050 158 3 185 7.
- Skipjack	7 121 819 8 380 41
- Sth Bluefin Tuna	165 577 1 291 50
- Other	121 424 206 58
Warehou	3 424 928 5 448 78
Fishbait	304 572 181 49
Fish Blocks	74 203 77 21
Barracouta - Green	2 493 793 967 39
- H & G	6 331 051 2 786 16
Other	11 970 111 8 848 28
Total	70 507 681 70 959 26
FINFISH - Fillets, Fresh	
Deep Sea Perch	245 567 727 70
Blue Cod	28 774 26 38
Hake	885 2.39
Flounder	10 657 26 45
Oreo Dory	878 618 381 13
Groper	271 920 1 320 13
Gurnard	40 163 97 59
John Dory	22 624 130 20
Snapper	57 374 224 61
Sth Bluefin Tuna	315 1 63
Sth Blue Whiting	-
Tarakihi	112 579 326 71
Trevally	215 589 227 86
White Fillets	4 262 15 83
Other	169 535 340 54
Total	2 058 862 3 849 24
FINFISH - Fillets, Frozen	
Deep Sea Perch	1 630 848 5 238 69
Blue Cod	6 181 8 97
Eels	29 747 135 72
1	1 i
Flounder	16 317 42 14
Flounder Groper	16 317 42 14 179 840 635 99

TABLE 5: (continued ω

Species <u>FINFISH - Fillets, Frozen</u> Hoki John Dory Hake Kahawai Ling Mackerel - Jack	Weight 1 881 914 54 700 91 365 101 085 795 850 37 139	F.O.B. 2 288 168 195 050 186 230 93 424 2 052 180 34 246
Moki Monkfish	205 040	625 903
Red Cod		ហ
Snapper	147 166	509 560
Lly	4 29	153 038
Tarakihi	468 926	1 286 647
Oreo Dory	25 110	45 961
Warehou	109 113	137 265
White Fillets	259 495	968 595
Sth Blue Whiting	19 760	21.980
Other		095
	11 912 303	24 543 550
FINFISH - UTIED, SAITED OF IN Brine		
Fish Meal Blue Cod	793 964 2 320	449 358 5 822
Eels	50 385	249 723
Red Cod	28 609	52 867
Snapper	2 892	
Tarakihi		
cou	v v	o u
Split & Salted Other	76 370 28 398	59 969 92 788
Total	989 416	928 766

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TABLE 5: (continued - 4)

1 172	9 401
521 666	i 126 022
217 478	744 825
3 900	7 195
3 487	7 248
120	1 036
328 685	1 552 960
168	2 290
403 538	528 699
644	1 594
334 808	781 544
113 322	151 862
54 672	93 971
85 788	160 020
2 069 448	5 168 667
92 146 527	117 217 295
50 100	620 042
	158 114
	5 789 058
	3 478 469
	24 998 935
	45 197
	602 971
2 275 875	35 692 7 <u>8</u> 6
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TABLE 5: (continued - 5)

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Species		Wei	ght		F.0	.в.
OTHER CRUSTACEA AND MO - Fresh or Frozen	LLUSCS					1
Oysters		629	800	1	373	298
Mussels		217	7 169	2	488	614
Scallops		58	3 4 8 4		454	549
Octopus		77	356		119	338
Squid		32 376	5 064	27	786	462
Tuatua			323		1	189
Flour			550			942
Fish Bait		5	3 411		28	204
Other		138	904		494	033
	Total	33 507	061	32	746	629
OTHER CRUSTACEA AND MO - Canned or Otherwise	the second se					
Oysters			849		5	422
Mussels		13	3 233		149	202
Paua		295	894	4	195	047
Scallops		- 6	617		-73	783
Paste & Pate		ç	323		111	.141
Other		16	970		130	264
	Total	329	652	4	517	293
OTHER CRUSTACEA AND MO - Soups	LLUSCS					
Mussels]	984		5	206
Other		17	119		41	727
	Total	19	103		46	933
TOTAL CRUSTACEA		33 855	5 816	37	310	855
GRAND TOTAL		128 278	3 218	190	220	936
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TABLE 6: NEW ZEALAND EXPORTS OF FISHERIES PRODUCE BY VALUE AND COUNTRY OF DESTINATION IN THE PACIFIC OCEAN IN 1981 (FIGURES IN \$NZ)

									Tota	2 T
7 634	702		3	940	2	1	359	7	660	001
		4 06						40		042
	_	1								
		ł								938
				-						578
		7	73	310	13					
13	414			_						606
7	692	2	28	850	2	6	279			821
1 091	325		8	105	9	3	969	1	193	399
17	892			-		7	766		25	658
16	392			-		5	120		21	512
1	832					2	414		4	246
16	272	1	16	487	1	4	010		46	769
26	801			-		8	054		34	855
3 694	432	4 32	27	499	3 16	6	792	51	138	723
	67 400 42 4 46 13 7 1 091 17 16 1 16 26	 4 305 812 67 150 400 959 42 753 4 575 46 861 13 414 7 692 1 091 325 17 892 16 392 1 832 16 272 26 801 3 694 432 	67 150 400 959 42 753 10 4 575 46 861 13 414 7 692 1 091 325 17 892 16 392 1 832 16 272 26 801	67 150 9 400 959 11 42 753 106 4 575 106 4 575 106 4 575 106 4 575 106 13 414 7 7 692 28 1 091 325 16 392 16 16 272 16 26 801 16	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	67 150 9 399 34 400 959 11 706 39 42 753 106 214 199 4 575 - 1 46 861 73 310 138 13 414 -5 7 692 28 850 26 1 091 325 8 105 93 17 892 -7 16 392 -5 1 832 -2 16 272 16 487 14 26 801 - 8	67 150 9 399 34 930 400 959 11 706 39 771 42 753 106 214 199 971 4 575 - 1 003 46 861 73 310 138 212 13 414 - 5 192 7 692 28 850 26 279 1 091 325 8 105 93 969 17 892 - 7 766 16 392 - 5 120 1 832 - 2 414 16 272 16 487 14 010 26 801 - 8 054	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	67 150 9 399 34 930 111 400 959 11 706 39 771 452 42 753 106 214 199 971 348 4 575 - 1 003 5 46 861 73 310 138 212 258 13 414 - 5 192 18 7 692 28 850 26 279 62 1 091 325 8 105 93 969 1 193 17 892 -7 766 25 21 16 392 - 5 120 21 1 832 - 2 414 4 16 272 16 487 14 010 46 26 801 - 8 054 34

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TABLE 7: IMPORTS OF FISHERIES PRODUCTS FOR NEW ZEALAND IN 1981

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	Weight (tonnes)	Value NZ \$ C.I.F.
Fish		
Live		186 754
Frozen	3.0	8 133
Fillets frozen	0.3	1 414
Meal		92
Smoked, salted, dried	12.0	96 068
Prepared or preserved		
- pastes, etc	180.5	885 649
- herrings, pilchards	379.9	1 046 588
- sardines	1 363.3	3 452 643
- salmon	1 330.5	6 954 050
- other	422.6	818 192
- caviar	7.4	56 029
Crustacea and molluscs		
Fresh, chilled, frozen	308.5	2 465 365
Salted	5.7	47 969
Boiled	24.8	230 744
Prepared or preserved		
- pastes, etc	486.0	2 315 310
- canned	268.2	1 454 825
- soups	32.6	35 799
- other	566.9	4 338 948
	5 392.2	24 394 572