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NATIONAL TRANSPORT BESEARCH CENTRE OFFICE

MINESTRY OF COMMUNICATIONS, GOVERNMENT OF PAKISTAN

THE STUDY

ON

NATIONAL TRANSPORT PLAN

IN

THE ISLAMIC REPUBLIC OF

PAKISTAN

Final Report Appendices

February 1995

ALMEC CORPORATION
SULTANTS INTERNATIONAL

SSF

CR(5)

95-002 (4/4)



The exchange rates used in the Study are:

US \$1.00 = Pakistan Rupees 25.960 J. Yen 1.00 = Pakistan Rupees 0.218 Rs. 1.00 = ¥4.59

(Average during 1992-93) Source: Economic Survey 1993-94 275-90



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

NATIONAL TRANSPORT RESEARCH CENTRE (NTRC)

MINISTRY OF COMMUNICATIONS, GOVERNMENT OF PAKISTAN

THE STUDY
ON
NATIONAL TRANSPORT PLAN
IN
THE ISLAMIC REPUBLIC OF
PAKISTAN

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ALMEC CORPORATION PACIFIC CONSULTANTS INTERNATIONAL



Abbreviations / Acronyms

AAGR Average Annual Growth Rate

AC&C Aeronautical Communication and Control

ACC Area Control Center

ADP Annual Development Programme

AFTN Aeronautical Fixed Telecommunication Network

AIP Aeronautical Information Publication
ALS Standard Approach Lighting System
AMSS Automatic Message Switching System

APL American President Lines
ASF Airport Security Force

ATIS Automatic Terminal Information Service

ATS Air Traffic System

BOT Build, Operate and Transfer

C&F Cost and Freight

C&W Communications and Works Department

CAA Civil Aviation Authority
CAS Central Asian States

CAT Category

CATI Civil Aviation Training Institute

CDEP Central Development Working Committee

CFS Container Freight Station

CIS Confederation of Independent States

DEL Diesel Electric Locomotive
DME Distance Measuring Equipment
DRF Depreciation Reserve Fund

DVOR Doppler VHF Omnidirectional Radio Range

DWT Dead Weight Ton

ECC Economic Coordination Committee of the cabinet ECNEC Executive Committee of National Economic Council

ECO Economic Cooperation Organization EIRR Economic Internal Rate of Return

EL Electric Locomotive

FAA Federal Aviation Agency, USA
FATA Federal Administrated Tribal Area

FIR Flight Information Region

FOB Free on Board FYP Five Year Plan

GDP Gross Domestic Products
GNP Gross National Products
HAT Highest Astronomic Tide

HP Horse Power

IATA International Air Transport Association ICAO International Civil Aviation Organization

IFR Instrument Flight Rules
ILS Instrument Landing System

IOC Iron Ore and Coal

IRNS Indus River Navigation Study

ISB Islamabad

IWT Inland Water Transport
JCAB Japan Civil Aviation Bureau

JICA Japan International Cooperation Agency

KHI Karachi

KKH Karakhoram Highway
KPT Karachi Port Trust
LDP Lahore Dry Port

MEAV Modern Equivalent Asset Value MHHW Mean Higher High Water

MHLW Mean Higher Low Water
MLHW Mean Lower High Water
MLLW Mean Lower Low Water
MLS Microwave Landing System
MOC Ministry of Communications

MOD Ministry of Defense
MOR Ministry of Railway
MSC Milwa Shipping Company
MSL Mean Sea Level

NDB Non-Directional Radio Beacon
NHA National Highway Authority
NLC National Logistic Cell

NM Nautical Mile

NSC National Shipping Corporation
NTC National Tanker Company
NTPS National Transport Plan Study
NTRC National Transport Research Center
NWFP North-West Frontier Province

OD Origin and Destination

OP Oil Pier

ORE Other Revenue Expenditure

PAF Pakistan Air Force

PAPI Precision Approach Path Indicator

PCWD Provincial Communications and Works Department

PDD Planning and Development Division

PERAC Petroleum Refining and Petrochemical Corporation Ltd.

PIA Pakistan International Airlines
PISC Pan Islamic Steamship Corporation
PMC Pakistan Mercantile Services Ltd.
PMD Pakistan Meteorological Department
PNSC Pakistan National Shipping Corporation

POL Petroleum Products

PPSC Pakistan Postal Services Corporation

PQA Port Qasim Authority PR Pakistan Railway

PSN Pakistan Shipping Corporation
PSO Public Service Obligation
PSR Primary Surveillance Radars
PSW Ports and Shipping Wing, MOC
PTA Provincial Transport Authority

RCD Regional Cooperation for Development

RCLL Runway Center Line Lights
REDL Runway Edge Lights
RENL Runway End Lights

RFTKs Revenue Freight Ton-Kilometers
RIV Rapid Intervention Vehicle
RPKs Revenue Passenger-Kilometers
RSE Ray Shipping Enterprises Ltd.
RTA Regional Transport Authority
RTHL Runway Threshold Lights
RVR Runway Visual Range

SAARC South Asian Association for Regional Cooperation

SALS Simple Approach Lighting System

SAP Social Action Programme

SCO Special Communication Organization

SL Steam Locomotive

SSR Secondary Surveillance Radars
TACAN Tactical Air Navigation System
TCLL Taxiway Center Line Lights
TEDL Taxiway Edge Lights

Twenty-foot Equivalent Unit
Transport Research Board, USA
Tristar Shipping Lines Ltd.
United Kingdom
United Nations Conference for Trade and Development
United Nations Development Programme
VHF Omnidirectional Radio Range
VOR and TACAN
Water and Power Development Authority TEU
TRB
TSL
UK
UNCTAD
UNDP
VOR
VOR
VORTAC
WAPDA



APPENDICES for

CHAPTER 1

Appendix 1.1 Scope of Work

SCOPE OF WORK
FOR

THE STUDY

ON -

NATIONAL TRANSPORT PLAN

IN

THE ISLAMIC REPUBLIC OF PAKISTAN

AGREED UPON BETWEEN

MINISTRY OF COMMUNICATIONS

AND

JAPAN INTERNATIONAL COOPERATION AGENCY

Islamabad, April 24, 1993

Mr.Muhammad Sher Khan
Additional Secretary,
Ministry of Communications,
Government of the Islamic

Republic of Pakistan.

Dr.Shigeru Kashima
Leader of
the Preparatory Study Team,
Japan International
Cooperation Agency.

I. Introduction

In response to the request of the Government of the Islamic Republic of Pakistan, the Government of Japan has decided to conduct the Study on National Transport Plan in the Islamic Republic of Pakistan (hereinafter referred to as "the Study"), in accordance with the relevant laws and regulations in force in Japan.

Accordingly, the Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation programmes of the Government of Japan, will undertake the Study in close cooperation with the authorities concerned of the Government of the Islamic Republic of Pakistan.

The National Transport Research Center (hereinafter referred to as "NTRC") shall act as a counterpart agency to the Japanese Study Team and also act as a coordinating body in relation with other relevant organizations for the smooth implementation of the Study.

The present document sets forth the scope of work with regard to the Study.

II. Objectives of the Study

The Study aims at proposing of short term investment plan for incorporation in the Rolling Plan and Annual Development Programmes of the 8th Five Year Plan, keeping in view a long-term perspective.

III. Scope of the Study

In order to achieve the objectives, the Study shall cover the following items;

The first of the State of the second state of

- 1. General
- (1) The Study shall cover all transport modes for the whole of Pakistan.
- (2) The Study shall focus mainly on national and international trunk routes and inter-regional transport connected with the trunk routes.
- Review of the National Transport Study for the 7th Five Year Plan
- (1) Review of implementation of the present Master Plan and Investment Programmes for the 7th Five Year Plan;
- (2) Data collection and analysis of the present situation of the national transport system in Pakistan;
- (3) Identification of the problems of the national transport system and the present Master Plan; and
- (4) Updating of the demand forecast in the previous study.
- 3. Proposal of the new Investment Programmes
- (1) Optimum allocation of traffic between various transport modes;
- (2) Conduct of an initial environmental examination;
- (3) Estimation of the fuel consumption;
- (4) Criteria and selection of priority projects;
- (5) Cost estimates of the selected projects;
- (6) Proposal of the Investment Programmes for incorporation in the Rolling Plan;
- (7) Recommendation of necessary measures for smooth implementation of the programme.

Following items should be considered in above major study items;

- a) Financing arrangement of the selected projects;
- b) Induction and role of Private Sector in various modes of Transport;
- c) Cost recovery measures ;

- d) Necessary R&D;
- e) Maintenance practices / policies of transport infrastructure and recommendation;
- f) Road Safety from engineering point of view; and
- g) Infrastructure and equipment improvement for Multi-modal transport.

IV. Study Schedule

The whole work shall be carried out in accordance with the attached tentative study schedule (APPENDIX-1).

V. Reports

JICA shall prepare and submit the following reports in English to the Government of the Islamic Republic of Pakistan.

1. Inception Report

Fifty (50) copies

At the beginning of the Study in Pakistan.

2. Interim Report

Fifty (50) copies

Within four (4) months after the submission of the Inception Report.

3. Draft Final Report

Fifty (50) copies

Within five (5) months after the submission of the Interim Report

The Government of the Islamic Republic of Pakistan will provide JICA with its comments within one (1) month after the receipt of the Draft Final Report.

4. Final Report

One hundred fifty (150) copies

Within two (2) months after the receipt of the comments on the Draft Final Report.

VI. Undertaking of the Government

of the Islamic Republic of Pakistan

- 1. To facilitate smooth conduct of the Study, the Government of the Islamic Republic of Pakistan shall take necessary measures:
 - (1) To secure the safety of the Japanese study team.
 - (2) To permit the members of the Team to enter, leave and sojourn in Pakistan for the duration of their assignment therein, and exempt them from alien registration requirements and consular fees;
 - (3) To exempt the members of the Team from taxes, duties and other charges on equipment, machinery and other materials brought into and out of Pakistan for the conduct of the Study;
 - (4) To exempt the members of the Team from income taxes and other charges of any kind imposed on or in connection with any emoluments or allowances paid to the members of the Team for their services in connection with the conduct of the Study;
 - (5) To provide the necessary facilities to the Team for remittances as well as utilization of fund introduced into Pakistan from Japan in connection with the conduct of the Study;
 - (6) To provide medical services as needed and its expenses will be chargeable on the members of the Team;
 - (7) To secure permission for entry into private properties or restricted areas for implementation of the Study; and
 - (8) To secure permission for the Team to take all data and documents (including photographs) related to the N Study out of Pakistan to Japan by the Team.

- 2. The Government of the Islamic Republic of Pakistan shall bear claims, if any arises against the members of the Team resulting from, occurring in the course of, or otherwise connected with the discharge of their duties in the conduct of the Study, except when such claims arise from gross negligence or wilful misconduct on the part of the members of the Team.
- 3. NTRC shall, at its own expense, provide the Team with the following, in cooperation with other relevant organization:
 - Available data and information, related to the Study including aerial photographs and maps;
 - (2) Counterpart personnel;
 - (3) Suitable office space in Islamabad
 - (4) Credentials or identification cards; and
 - (5) Appropriate number of drivers.

VII. Undertaking of JICA

For the implementation of the Study, JICA shall take the following measures:

- (1) To dispatch, at its own expense, the Japanese Study Team to the Islamic Republic of Pakistan; and
- (2) To pursue technology transfer to the Pakistani counterpart personnel in the course of the Study.

VIII.Others

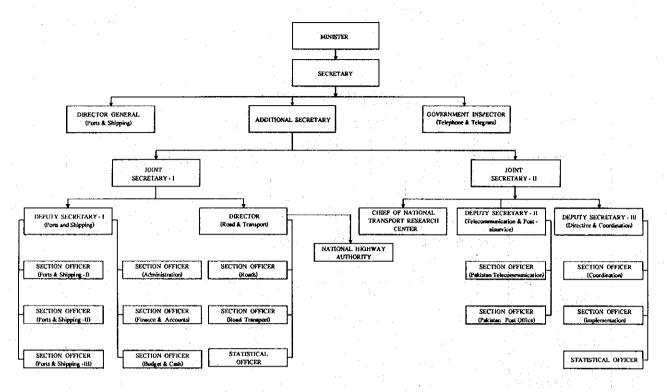
JICA and NTRC shall consult with each other in respect of any matter that may arise from or in connection with the Study.

TENTATIVE SCHEDULE

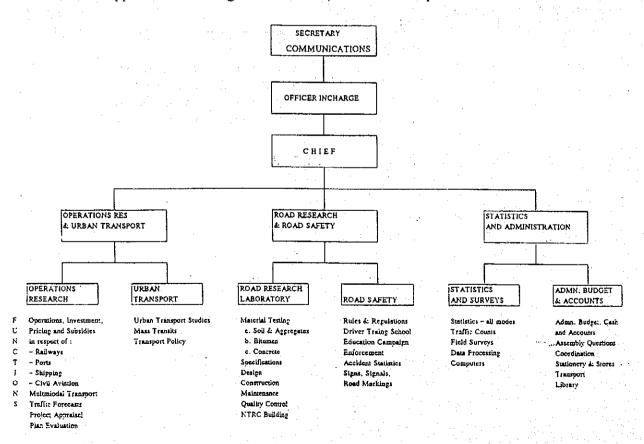
MONTH	1	2	3	4	5	6	7	8	 10	11	12	13
STUDY IN PAKISTAN								l		İ		
STUDY IN JAPAN					—				_			
SUBMISSION OF REPORTS	Δ	/R		1 12:	Δ IT/	R		•	D	Δ F/R		1

IC/R :Inception Report
IT/R :Interim Report
DF/R :Draft Final Report
F/R :Final Report

Appendix 1.2 Organization Chart, Ministry of Communications



Appendix 1.3 Organization Chart, National Transport Research Centre



APPENDICES for

CHAPTER 2

Appendix Table 2.1.3.1 (1) Working Population by District - 1981 (Census)

District Code	Agricul- ture	Mining/Q uarrying	Manufac- turing	Electri- city/Gas		Wholesal e/Retail		Banking/ Insure.	Pub. Ad. /Service	JAT0T
311	158	1	18	. 3	20	25	15	1	39	279
312	144	2	43	4	32	61	29	. 6	147	468
611	16		. 9	2	5	6	6	3	34	83
313 314	118 277	12	24 79	1 4	20 30	24 50	10 25	.3 4	45 88	258 557
321	235			. 2	16	25	15	2	46	368
322	363		60	4	30	76	30	5	114	694
323	542	1	260	10	60	151	.50	8	194	1,276
324	383		41	3	21	41	20	2	76	588
331 332	302 288		151 148	3	37 33	74 87	31 36	5 6	98 109	703 710
333	291		112	2	30	55	26	. 3	93	618
334	103		161	17	76	178	86	19	239	882
335	224		52	2	16		15	2	60	412
341	309		19	1	13	32	12	. 2	47	435
342 343	412 609		38 115	1 4	28 49	42 120	15 53	2 10	66 146	605 1,107
344	237		27	i	15	33	13	2	39	368
345	673	1	88	4	35	97	35	9	139	1,081
351	245		27	. 2	20	35	1.5	2	64	410
352 353	289 344		28 34	1 2	12 17	34 34	10 14	1 2	4 <i>7</i> 65	421 513
411	243		3	ő	6	13		í	18	288
412	180		19	1	. 22		20	ĩ	36	309
413	131		5	. 1	6	· 11	5	1	15	176
414	235		6	1	10	24	9	1	30	315
415 416	328 197		9	3 2	12 7	. 23 21	. 9	2 2	40 23	425 262
421			19		7	20	8	. 1	30	328
422	274		51	6	33		20	5	76	537
423	192		7	0	2	7	3	0	20	232
424	214		10	1	5	16	. 5		18	269
425 426	332 182		13	1 1	6 6	27 14	8 3	. 1	36 16	424 229
431	73		300	14	74	298		44		1,299
111	51		1	0	1	4	1	0	5	63
112	150		4	1	. 7	8	. 5	1	13	189
113 114	. 256 32		6 2	1	7 3	16	8	0	28 9	324 57
121	163		. 0	ō	0	ó	0	. 0	1	165
122	208		. 2	. 1	. 4	11	7	1	23	258
123	143		13	5	17	28		2	62	293
131 132	277 266		15 31	7 6	18 29	27 74		2 6	36 138	399
133	73		7	1	25 15	15	9	1	34	583 157
141	112		. 3	. 1	5	19	5	ī	28	173
142	105		3	1	8	16	5	1	39	178
511	10		6	2	4	22		1	26	83
51 <i>2</i> 513	37 99		1 0	. 0	. 2	22	4 2	0	5 : 6 :	72 115
514	75		1	. 0	4	6	2	Ö	4	98
515	15		0	0	4	2	2	0	2	28
521	23		. 2	0	. 1	3	2	. 0	3	36
522 523	113 75	0	1	0	2	2	. 2	. 0	4 .	124 89
524	48	1	0	0	0		0	. 0	1	51
531	81		0	. 0	õ	3	2	. 0	5	95
532	80		1	. 0	3		1	0	4	92
533 534	32 54		0	0	1	1	0	0	2	36
541	54 81		1 1	0	1 12	2 3	1 8	0	2 2	62 108
542	22		i î	. · · · · ŏ	. 2	2	. 1	č	2	32
543	29		1	0	4	. 1	1	0	2	- 38
211 212	62		1	0	2	3	1	0	5	75
212	60 62		1 1	0	1 2	3 3	1 1	0	5 6	73 75
214	35		, 1	. 0	· 1	2	1	Ö	3	42
215	51	0	1	0	1	2	1	0	4	61
216	76		1	0		4	2	0	7	92
217 218	65 17	0	1 0	0	2	3 1	2 0	0	6	79 20
219	18		0	0	0	1	0	0	· 1	20 22
220	12		. 0	0	: ŏ	1	0	ŏ	1	15
221	8	0	0	0	0	0	. 0	0	1	9
Total	12,552	92	2,129	142	979	2,216	977	179	3,219	22,489

Appendix Table 2.1.3.1 (2) Working Population by District - 1992 - 93 (Census)

		trict	Agricul- ture	Mining/Q uarrying	Manufac- turing	Electri- city/Gas	Construc tion	Wholesal e/Retail	Transpor t/Comm.	Banking/ Insure.	Pub. Ad. /Service	T	OŢĀL
-		311	195	1	22	3	24	30	19	2	48		345
		312	189	3	56	6		80	38	8	192		613
	. :	611 313	28 137	0 14		3 1		11 27		6 4	59 53		142 298
٠		314		1		6				5	112		708
		321	321	4	36	3				3			504
	\$	322 323	475 621	15 1		5 12				6 9	149 222	1	908 ,462
		324	531	1	56	4	29	57	. 28	3		•	815
		331	368	1	184	5 4				6 8	119		855
	4.1	332 333	412 406	2	213 156	_				4	156 130	1	,017 854
		334	159	3	249	-26	117	274	133	30	368	1	358
		335	317	1 1	74 29	3 2				3			582
		341 342	485 644	1		2				4			683 946
		343	876	2	166	6	70	172	76	. 14	210	1	,592
		344	338	1. 2	39 132	2 7				3 13			524
	3 T	345 351	1,015 373	1	42	3				3			,629 625
	i Y	352	406	1	39	2				1			592
		353 411	503 393	1 0	50 5	2 0				3 1			751 468
		412		Ö	28	2				2			445
		413	154	0	6	1				1			206
		414 415	311 426	. 0.	. 8 11	2				1 2		100	418 551
		416.	297	0	. 9	2	10	32	6	2	34		394
		421	343	13	28	.2				2	the state of the s	٠	484
	:	422 423	363 266	3 0	68 10	0				7	101 27		714 321
		424	314	0.	14	1	. 7	24		1	26		394
		425 426	563	0	22 6	1 1				2 1			719
		431	212 124	. 9	510	24						. 2	266 , 208
		111	72	. 0	1		1	6	1	0	7		89
		112 113	244 391	1 2								٠, ١	308 496
		114	50		3								88
		121	458	0								i.	463
		122 123	240 164	0	3 15								297 336
		131	378	3	21								544
		132	390	1						9			853
		133 141	106 151	2 0		. 1				2			227 234
		1.42	1.57	. 0	5	2	11	24	8	1	58		266
		511	16 62			3				0			140
		512 513	210	4	1	. 0							$\frac{123}{242}$
		514	161	10	. 2	0					9	1	209
		515 52 1	28 29	5 2				3 4				٠.	54 46
		522	202			Ö		4		Ô			222
		523	113		1	0		. 3				·	133
		524 531	81 190			0						:	85 224
		532	166	0	. 2	0	7	6	·	. 0	8	1.0	192
		533										· ' ·	87
		534 541	93 209							. 0		1	106 280
		542	32	0	2	. 0) 3	3	2			ar Tagas	45
		543 211	80 40							0			105
		212							1	. 0		- 1	49 45
		213	60		1	0) 1	3	1	0	5		73
		214 215	10 43).						12 52
		216	96	0	. 2	1	. 2	5	2	0	9	15757	117
		217	60						1. 1	. 0			73
		218 219	21 19								and the second second	Mili	25 24
		220	16	0	0	. 0) 0) <u>. 1</u>	0	0	1		19
		221	. 4	0	0	0) 0	0	0	0	0		4
		Total	18,116	140	3,009	201	1,407	3,198	1,426	265	4,598	32	,360

Appendix Table 2.1.3.1 (3) Working Population by District - 1997 - 98 (Census)

Distric Code	t Agr		Mining/Q uarrying		Electri- city/Gas	Constru	Wholesal e/Retail			Pub. Ad. /Service	TOTAL
			- -		' -	. 					
31 31		214 211	3	24 62				20 43	2 9	53 215	377 686
61		36	ĭ	20	4			14	7	76	184
31	3	145	15	. 30	1	2	1 29	13		56	317
31		390	1	110	6					124 71	783 574
32 32		366 531	. 4 17	41 88						166	1,015
32		656		315	12	7				235	1,544
32		608	1	64						121	934
33 33		396 476		198 246		5			6 9	128 180	922 1,175
33		463		178							975
33		189		296						438	1,618
33		364 584		85 35							669 822
34 34		775		72 72							1,138
34		1,016	2	192	. 7	. 8				244	1,847
34		391		45							605
34 35		1,201 444	2 1	156 50							1,927 744
35		466		45							680
35	3	588	. 1	59					4	112	878
41		475		6							565
41 41		298 162		32 6			7 48 8 13				511 217
41		345	. 0	9	2	1.	4 35		1	44	463
41		468		12							606
41 42		348 398									462 561
42		403		75							793
42		300		12			4 11				362
42		363 693		16 27			8 27 2 56				455
42		222		6			2 30 8 18			20	884 278
43	1	152	11	626	30	15	5 621	328	92	697	2,711
11		81		1 8			2 7				100
11 11		292 456									368 578
$\tilde{1}\tilde{1}$		58		3			5 12				102
12		670		. 0			0 2				678
12 12		241 164		3 15			5 13 0 32				298 337
13		426									614
13		454									993
13 14		122 171					5 25 7 28				263 265
14		184								68	312
51	.1	19	6	12			8 43	18	2	52	163
51 51		73		1			4 43 2 11				143
51		268 206	The second second second							12	309 268
51	5	35	., 7 ,	. 1	, , , , C	•	9 4	6	0	6	67
52		30					1 4			4	47
52 52		237 123		1	-		4 5 1 3			- ·	260 144
52	4	92	3	. 0			0 1	: 0	. 0		98
53		252					1 8		0		298
53 53		208 72					$egin{array}{cccccccccccccccccccccccccccccccccccc$				241 80
53		108		. 2	C		2 3				124
54		287		; 3	. 0						383
54 54	2 .	34 113		2 2			3 3 5 5				48 148
21		34					1 2				41
21	2	30	0	1		rį.	1 1	1	0	3 -	36
21		60					1 3				73
21 21		5 40		0			$egin{array}{ccc} 0 & 0 \ 1 & 2 \end{array}$			0 4	7 49
21	6	106	O	· 2	1		3 5	3	. 0	9	128
21		58		1			1 3				70
21 21		22 20					$egin{array}{cccc} 1 & 1 & 1 \\ 0 & 1 & \end{array}$				27 24
22		18					0 1				22
22		3		0	C	1 (1)	0 0	0	. 0		3
Tota	1	21,010	164	3,467	231	1,62	9 3,707	1,660	311	5,314	37,492

Appendix Table 2.1.3.1 (4) Working Population by District - 2005 - 06 (Census)

D		Agricul- ture	Mining/Q uarrying	Manufac- turing	Electri- city/Gas	Construc tion	Wholesal e/Retail	Transpor t/Comm.	Banking/ Insure.	Pub. Ad. /Service	TOTAL
	311	241	1	27	4	30	37	23	2	60	425
	312	248	4	73	·7	55	105	. 50	10	252	805
-1.	611	55	1.		6	18	21	22	11	116	281
	313 314	157 448	16 1	32 127	1 7	26 48	31 80	14 40	. 6	60 142	342 899
	321	442	5	49		30		28	3	86	692
	322		20	103	7	51	130	51	. 8	194	1,184
	323	700	2	336	13 6	77	194	64	10	250	1,647
	324 331	737 441	1	78 220	6	· 41	79 109	38 45	5 7	147 143	$1,132 \\ 1,025$
	332		î	305	6	69	178	74	12		1,459
	333	564	2	217	4	5 7	106	50	6	180	1,187
	334	247	4	386	40	182	426	207	46	572	2,111
	335 341	448 752	1 2	105 46	5 3	32 32	80 77		3	120 114	824 1,059
	342		ĩ	92	3	. 69	101	35	6	160	1,464
-	343		2	234	. 9	99	242	108	20	296	2,245
	344		1 2	54	3	29	65	25	4	78	732
	345 351		1	196 65	10 5	77 48	218 82	77 36	19 4	312 150	2,418 970
	352	575	ĩ	55	. 3	24	67	19	2	94	839
	353		1	75	3		75	31	4	141	1,113
	411		. 0	- 8		16	33	11	2	46	739
	412 413	359 171	1 0	39 6	. 2	- 44 8	57 14	41 7	2	71 20	616 229
	414	394	ő	10	2	16	40	15	2	50	528
	415	526	0	14	5	19	36	14	. 3	65	681
	416		0	13	3	. 15	47		3	50	574
	421 422	486 459	18 4	40 86	3 11	14 55	42 118	17 33	3 9	62 127	685 903
	423	351	ō	14	. 11	4		5	1	36	424
	424	441	0	20	i	10	33	9	. 2	37	554
	425	932	.0	36		17	75	24	4	100	1,188
	426	230	. 0	6	1	8	18	3		21	289
	431 111	204	15 0	843 1	40	208 2	835	441 1	. 124	937 10	3,648 118
	112	382	2	10	ĭ	19	20		ĭ	34	481
	113	570	3	14	1	17	35		3	62	722
	$\frac{114}{121}$	$\frac{72}{1,102}$	1 0	4 0	2 0	7	15 3	0	1	20	128
	1.22	217	0	2	1	5	12	. 8	1	8 24	1,114 269
	123	147	0	14	5	18	29	22	2	64	302
	131	498	4	27	12	33	48			64	716
	132 133	556 149	1 3	64	12 2	61	155	68		287	1,217
	141	199	0	14		30 8	30 33	19 8	3 1	69 50	319 309
	142	229	ō	7	2	17	35	12	2	85	389
	511	23	7	14	.4	10	53	22	3,	63	200
	512 513	89 383	4 8	1 2	1 1	. 5 4	53 16	10 7	0	12	175
	514	296	19	3	1	15		8	. 0	22 17	441 385
	515	47	9	1	ō	12	_5	8	Ŏ	8	90
	521	29	2	3	0	1	4	2	0	4	46
	522 523	296 135	0 7	3	0	6	6	2 3	0	11	324
	524	111	3	0	0	0	. 1	0.	0	7 2	159 117
	531	366	21	ī	· ŏ	2	12	7	ŏ	22	432
	532	278	0	4	0		. 10	3	0	14	322
	533 534	89 128	0 1	0 2	0	3 2	2	1 2		4	100
	541	433	Ô	5	0	66	18	44	0 1	5 13	146 579
	542	34	Ö	. 2	· o	3	3	2	õ	3	48
	543		1	4	. 0	24	9	8	0	10	235
	211 212	26 22	0 0	0 0	0.0	1 1	1	1 1	. 0	2	31
	212	59·	0	1		1	1 3	1	0	2 5	26 72
	214	3	. 0	0	ő		0	0	: 0	ŏ	3
	215	36	. 0	1	0	1	2	1	0	3	44
	216	125	0	. 2 1	1	3	6	3	0	11	152
	217 218	55 26	. 0	. 0	0	1 1	3 1	1	0	5 2	66 32
	219	21		0	ŏ	· 1	1	1	. 0	2	26
	220	22	0	0	0	. 1	1	1	. 0	2	26
	221	1	0	0	0	. 0	. 0	0	0	0	2
	Total	25,933	205	4,259	281	2,010	4,581	2,067	392	6,545	46,274

Appendix Table 2.2.4.1 Projection of Agricultural Production and Consumption of Wheat (000 tons)

	Major							
The state of the state of	Wheat	Wheat		heat		Vheat		Wheat
Year	Production	Seed Rsrve	Į.	Æ	Con	sumption	Population	Consum/cap.
		10%	•				**	1 1
6th FYP	3.9		. 4			4.5		1.
1983/84	10,883	1,088		-291		10,086	91,880	109.8
1984/85	11,703	1,170		-980		11,513	94,730	121.5
1985/86	13,923	1,392		-1,909	1	14,440	97,670	147.8
1986/87	12,014	1,201		-378		11,191	10,070	111.1
1987/88	12,675	1,268	3	-601		12,009	103,820	115.7
and the state of		1 2 2				-	Ave.	121.2
7th FYP	2.9		e exist			3.5		
1988/89	14,420	1,442		-2,171		15,149	107,040	141.5
1989/90	14,315	1,433	2	-2,047		14,931	110,360	135.3
1990/91	14,564	1,450	5	-972	+ 1	14,080	113,780	123.7
1991/92	15,684	1,568	3	-2,018		16,134	117,320	137.5
1992/93	16,157	1,610	5	-2,868		17,409	120,840	144.1
							Ave.	136.4
	the second section of						* * * * * * * * * * * * * * * * * * *	1 100
8th FYP	2.5	r Na	17.5			3.2	3.0	2.0
1993/94	16,561	1,65	5 / 4	-2,110		17,015	124,465	136.7
1994/95	16,975	1,69	7	-2,283		17,560	128,199	137.0
1995/96	17,399	1,74	0	-2,464		18,123	132,045	137.2
1996/97	17,834	1,78	3	-2,653	4	18,704	136,006	137.5
1997/98	18,280	1,82	3	-2,852		19,304	140,087	137.8
*		1.5						4 7 (4)
9th FYP	3.0		100			3.1	2.6	5.0
1998/99	18,829	1,88	3	-2,959		19,905	143,729	138.5
1999/00	19,393	1,93	9	-3,070		20,524	147,466	139.2
2000/01	19,975	1,99	8	-3,186	in the	21,163	151,300	139.9
2001/02	20,574	2,05	7	-3,305		21,822	155,234	140.6
			O	-3,429		22,501	159,270	141.3
2002/03	21,192	2,11	7	-3,727		22,501	137,210	111.0
2002/03	21,192	2,11	7	-3,427				
2002/03 10th FYP	3.0	2,11	2 .			2.9	2.6	4.0
		2,11 2,18		-3,534		2.9 23,179	2.6 163,411	4.0 141.8
10th FYP	3.0		3	-3,534 -3,547		2.9 23,179 23,781	2.6 163,411 167,660	4.0 141.8 141.8
10th FYP 2003/04	3.0 21,827	2,18 2,24 2,31	3 8 6	-3,534 -3,547 -3,656		2.9 23,179 23,781 24,497	2.6 163,411 167,660 172,019	4.0 141.8 141.8 142.4
10th FYP 2003/04 2004/05	3.0 21,827 22,482	2,18 2,24	3 8 6	-3,534 -3,547		2.9 23,179 23,781	2.6 163,411 167,660	4.0 141.8 141.8

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are assumed to be increased per annum by 0.2 %, 0.5 % and 0.4 % in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve for wheat is assumed to be 23 % of total production taking into account of storategic reserve to secure self-sufficiency of wheat as a major staple food as well as price stabilization in the market.

Appendix Table 2.2.4.2 Projection of Agricultural Production and Consumption of Rice (000 tons)

	Major						
	Rice	Rice		ice	Rice		Rice
Year	Production	Seed Rsrve	I	Æ	Consumption	Population	Consum/cap.
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10%					64 F34D
6th FYP	-0.8	1			-0.5	0.000	6th FYP
1983/84	3,340	334		1,265	1,741	91,880	18.9
1984/85	3,316	332	No.	719	2,265	94,730	23.9
1985/86	2,919	292		1,316	1,311	97,670	13.4
1986/87	3,487	349		1,240	1,898	10,070	18.9
1987/88	3,240	324	. e 3	1,210	1,706	103,820	16.4
•		•				Ave.	18.3
7th FYP	-0.6				-3.1		7th FYP
1988/89	3,198	320		864	2,014	107,040	18.8
1989/90	3,220	322	:.'.	744	2,154	110,360	19.5
1990/91	3,260	326		1,205	1,729	113,780	15.2
1991/92	3,243	324		1,512	1,407	117,320	12.0
1992/93	3,116	312		1,032	1,772	120,840	14.7
						Ave.	16.0
8th FYP	6.4				3.2	3.0	2.0
1993/94	3,315	332		984	2,000	124,465	16.1
1994/95	3,528	353		1,111	2,064	128,199	16.1
1995/96	3,753	375	: :	1,248	2,130	132,045	16.1
1996/97	3,994	399		1,395	2,199	136,006	16.2
1997/98	4,249	425		1,555	2,269	140,087	16.2
L							
9th FYP	3.8				3.1	2.6	5.0
1998/99	4,411	441		1,630	2,340	143,729	16.3
1999/00	4,578	458	1.00	1,708	2,413	147,466	16.4
2000/01	4,752	475		1,789	2,488	151,300	16.4
2001/02	4,933	493	1000	1,874	2,565	155,234	16.5
2002/03	5,120	512	٠.	1,963	2,645	159,270	16.6
*	er e	4		•			
10th FYP	3.0				2.9	2.6	4.0
2003/04	5,274	527		2,022	2,725	163,411	16.7
2004/05	5,432	543		2,093	2,796	167,660	16.7
2005/06	5,595	560		2,156		172,019	16.7
2006/07	5,763	576		2,220		176,491	16.8
2007/08	5,936	594	1000	2,286		181,080	16.9
	•	and the second second			and the second section		

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.3 Projection of Agricultural Production and Consumption of Gram (000 tons)

1	Major	·				
	Gram	Gram	Gram	Gram		Gram
Year	Production	Seed Rsrve	I/E	Consumption	Population	Consum/cap.
e e e e e e e e e e e e e e e e e e e		5%				
6th FYP	-8.1			-8.1		
1983/84	522	52	. 0	470	91,880	5.1
1984/85	524	52	0	472	94,730	5.0
1985/86	. 58 6	59	· · 0	527	97,670	5.4
1986/87	583	<i>5</i> 8	0	525	10,070	5.2
1987/88	373	37	. 0	336	103,820	3.2
					Ave.	4.8
7th FYP	3.3			3.3		. •
1988/89	456	46	0	410	107,040	3.8
1989/90	562	5 6	0	506	110,360	4.6
1990/91	531	53	0	478	113,780	4.2
1991/92	513	51	. 0	462	117,320	3.9
1992/93	520	52	0	468	120,840	3.9
		The second secon			Ave.	4.1
8th FYP	3.5			3.2	3.0	2.0
1993/94	<i>5</i> 38	27	2	509	124,465	4.1
1994/95	557	28	2 3	526	128,199	4.1
1995/96	577	29	5	543	132,045	4.1
1996/97	597	30	7	560	136,006	4.1
1997/98	618	31	9	578	140,087	4.1
						The second of
9th FYP	3.0	4.5	•	3.1	2.6	5.0
1998/99	636	32	., 8	596	143,729	4.1
1999/00	655	33	8	615	147,466	4.2
2000/01	675	34	7	634	151,300	4.2
2001/02	695	35	7.	653	155,234	4.2
2002/03	716	36	6	674	159,270	4.2
10th FYP	3.0			3.0	2.6	4.0
2003/04	737	37	7	694	163,411	4.2
2004/05	760	38	. 7	715	167,660	
2005/06	782	39	7	736	172,019	4.3
2006/07	806	40	7	7 <i>5</i> 9	176,491	4.3
2007/08	83 0	41	7	781	181,080	4.3

(1) Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.4 Projection of Agricultural Production and Consumption of Maize (000 tons)

	Major			5 4 12 L	e grande i	
error to	Maiz	Maiz	Maiz	Maiz		Maiz
Year	Production	Seed Rsrve	I/E	Consumption	Population	Consum/cap.
		10%				······································
6th FYP	2.7			2.7	Section 1889	
1983/84	1,014	101	0	913	91,880	9.9
1984/85	1,027	103	0	924	94, <i>7</i> 30	9.8
1985/86	1,010	101	0	909	97,670	9.3
1986/87	1,111	111	: 41 O	1,000	10,070	9.9
1987/88	1,127	113	0	1,014	103,820	9.8
				•	Ave.	9.7
7th FYP	-0.5			-0.5	A 4	
1988/89	1,204	120	0	1,084	107,040	10.1
1989/90	1,179	118	0	1,061	110,360	9.6
1990/91	1,185	119	0	1,067	113,780	¹ 2 9.4
1991/92	1,203	120	0	1,083	117,320	9.2
1992/93	1,178	118	0	1,060	120,840	8.8
					Ave	9.4
8th FYP	6.0	4		3.8	3.0	2.0
1993/94	1,249	125	-51	1,175	124,465	9.4
1994/95	1,324	132	-22	1,213	128,199	9.5
1995/96	1,403	140	2	1,261	132,045	9.5
1996/97	1,487	149	27	1,311	136,006	9.6
1997/98	1,576	158	55	1,363	140,087	9.7
				·		
9th FYP	6.0			7.7	2.6	5.0
1998/99	1,671	167	35	1,469	143,729	10.2
1999/00	1,771	177	12	1,582	147,466	10.7
2000/01	1,878	188	-15	1,705	151,300	11.3
2001/02	1,990	199	-45	1,836	155,234	11.8
2002/03	2,110	211	-80	1,978	159,270	12.4
404		•			e de la companya de La companya de la co	3 - 3 - 4 - 4
10th FYP	6.0	20.4	45	5.7	2.6	4.0
2003/04	2,236	224	-17	2,030	163,411	12.4
2004/05	2,370	237	-32	2,166	167,660	12.9
2005/06	2,513	251	-50	2,311	172,019	13.4
2006/07	2,663	266	-69	2,466	176,491	14.0
2007/08	2,823	282	• • 11	2,530	181,080	14.0

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.5 Projection of Agricultural Production and Consumption of Cotton (000 tons)

	Major	•	1			
	Cotton	Cotton	Cotton	Cotton		Cotton
Year	Production	Rsrve	I/E	Consumption	Population	Consum/cap.
	<u> </u>	0%				·
6th FYP	31.3			25.1		
1983/84	503	0	98	405	91,880	4.4
1984/85	1,026	0	263	763	94,730	8.1
1985/86	1,238	0	639	599	97,670	6.1
1986/87	1,343	0	641	702	10,070	7.0
1987/88	1,494	. 0	. 502	992	103,820	9.6
					Ave.	7.0
7th FYP	1.5			20.2		
1988/89	1,451	0	840	611	107,040	5.7
1989/90	1,481	0	295	1,186	110,360	10.7
1990/91	1,666	0	282	1,384	113,780	12.2
1991/92	2,218	0	455	1,763	117,320	15.0
1992/93	1,540	0	263	1,277	120,840	10.6
					Ave.	10.8
		•		•		
8th FYP	6.5			3.9	3.0	2.0
1993/94	1,640	0	276	1,364	124,465	11.0
1994/95	1,747	0	339	1,408	128,199	11.0
1995/96	1,860	0	395	1,466	132,045	11.1
1996/97	1,981	0	455	1,526	136,006	11.2
1997/98	2,110	0	521	1,589	140,087	11.3
			-			
9th FYP	6.5			3.4	2.6	5.0
1998/99	2,247	. 0	598	1,649	143,729	11.5
1999/00	2,393	0	693	1,701	147,466	11.5
2000/01	2,549	0	784	1,765	151,300	11.7
2001/02	2,714	0	. 883	1,832	155,234	11.8
2002/03	2,891	0	1,002	1,889	159,270	11.9
10th FYP	6.0			3.6	2.6	4.0
2003/04	3,064	. 0	1,104	1,961	163,411	12.0
2004/05	3,248	0	1,228	2,020	167,660	12.0
2005/06	3,443	0	1,346	2,097	172,019	12.2
2006/07	3,650	0	1,472	2,178	176,491	12.3
2007/08	3,869	0	1,607	2,261	181,080	12.5

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.6 Projection of Agricultural Production and Consumption of Sugar (000 tons)

	Industry					
	Sugar	Sugar	Sugar	Sugar		Sugar
Year	Production	Reserve	I/E	Consumption	Population	Consum/cap.
ТСЩ	17000000	0%				
6th FYP	11.6			15.3	i de la companya de l	
1983/84	1,149	0	0	1,149	91,880	12.5
1984/85	1,313	0	0	1,313	94,730.	13.9
1985/86	1,116	0	-258	1,374	97,670	14.1
1986/87	1,283	0	-7 <i>5</i> 0	2,033	10,070	20.2
1987/88	1,781	0	-251	2,032	103,820	19.6
					Ave.	16.0
7th FYP	2.8			3.1		
1988/89	1,850	0	43	1,893	107,040	17.7
1989/90	1,855	0	209	2,064	110,360	18.7
1990/91	1,932	0	-435	2,367	113,780	20.8
1991/92	2,086	0	-110	2,196	117,320	18.7
1992/93	2,070	0	-67	2,137	120,840	17.7
					Ave	18.7
•		garage and				
8th FYP	6.0			6.5	3.0	2.0
1993/94	2,194	0	-11	2,206	124,465	17.7
1994/95	2,326	0	-23	2,349	128,199	18.0
1995/96	2,465	0	-36	2,502	132,045	18.4
1996/97	2,613	0	-51	2,664	136,006	18.7
1997/98	2,770	0	-67	2,837	140,087	19.0
9th FYP	5.5		_:	5.5	2.6	5.0
1998/99	2,922	0	-71	2,993	143,729	19.1
1999/00	3,083	0	-75	3,158	147,466	19.5
2000/01	3,253	0	-79	3,332	151,300	19.9
2001/02	3,432	0	-83	3,515	155,234	20.3
2002/03	3,620	0	-88	3,708	159,270	20.4
				. 0	0.0	40
10th FYP	5.5			5.0	2.6	4.0 20.5
2003/04	3,820	0	-74 50	3,894	163,411	and the second s
2004/05	4,030	0	-59	4,088	167,660	
2005/06	4,251	0	-41	4,293	172,019	21.8
2006/07	4,485	0	-22	4,507	176,491	22.3
2007/08	4,732	0	-1	4,733	181,080	24.3

Notes:

(1) Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.7 Projection of Agricultural Production and Consumption of Sugar Cane (000 tons)

	Major					····
	Sugar Cane	Sugar Cane	Sugar Cane	Sugar Cane	184 202	Sugar Cane
Year	Production	Reserve	I/E	Consumption	Population	Consum/cap.
		0%				
6th FYP	-0.9			-0.9		
1983/84	34,287	0	. 0		91,880	373.2
1984/85	32,139	0	0	,	94,730	339.3
1985/86	27,856	0	0	,	97,670	285.2
1986/87	29,926	0	0		10,070	297.2
1987/88	33,029	0 .	. 0	33,029	103,820	318.1
					Ave.	322.6
7th FYP	0.7	100		0.7		
1988/89	36,976	0	. 0		107,040	345.4
1989/90	35,493	. 0	. 0		110,360	321.6
1990/91	35,988	0	0	35,988	113,780	316.3
1991/92	38,865	0	. 0	38,865	117,320	331.3
1992/93	38,059	, 0	0	38,059	120,840	315.0
. L 					Ave.	325.9
the state of the state of					,	
8th FYP	3.9	*.		3.9	3.0	2.0
1993/94	39,543	0	. 0		124,465	317.7
1994/95	41,085	0	C	41,085	128,199	320.5
1995/96	42,688	0	. (42,688	132,045	323.3
1996/97	44,353	0	. (136,006	326.1
1997/98	46,082	. 0) 46,082	140,087	329.0
9th FYP	4.0			4.0	2.6	5.0
1998/99	47,926	0			143,729	333.4
1999/00	49,843	0	. (147,466	338.0
2000/01	51,836	, 0		51,836	151,300	342.6
2001/02	<i>5</i> 3,910	0	. (53,910	155,234	347.3
2002/03	56,066	0	(56,066	159,270	352.0
	1.	•			•	
10th FYP	4.0			4.0	2.6	4.0
2003/04	58,309	0		58,309	163,411	3 <i>5</i> 6.8
2004/05	60,641	0		60,641	167,660	
2005/06	63,067	0		0 63,067	172,019	
2006/07	65,590	0		65,590	176,491	371.6
2007/08	68,213	0	and the second	0 68,213	181,080	376.7

(1) Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.8 Projection of Agricultural Production and Consumption of Other Major Crops (000 tons)

	Major			1	·		
	Major	(thers	Others	Others		Others
Year	Others	R	eserve	I/E	Consumption	Population	Consum/cap
			0%				
6th FYP	-5,9	,			-8.3		
1983/84		710	0	71	63		7.0
1984/85		725	0	66	65		7.0
1985/86		797	. 0	96	70		7.2
1986/87		791	0	104	68		6.8
1987/88		556	. 0	104	45	•	4.4
•	•					Ave.	6.5
7th FYP	2.1				3.0		il de la companya de
1988/89		643	0	96	54		5.1
1989/90		769	. 0	101	.66		6.1
1990/91	• • • • • • • • • • • • • • • • • • • •	732	0	112	62		5.4
1991/92		710	0	125	58		5.0
1992/93		700	0	84	61		5.1
				1 to 1		Ave.	5.3
	4.						
8th FYP	1.8				3.0	3.0	0.0
1993/94		713	0	53	66		5.3
1994/95		725	0	46	67		5.3
1995/96		738	0	35		132,045	5.3
1996/97	· · · ·	752	0	31	72		5.3
1997/98	<u> </u>	765	0	23	74	12 140,087	5.3
od EVD	0.0	*	*			2.6	0.0
9th FYP	3.0	700	. 0	22	7	2.6 6 143,729	5.3
1998/99		788	0	22 26		36 147,466	5.3 5.3
1999/00		812	. 0	34	and the second s	02 151,300	5.3
2000/01		836	0	39		155,234	
2001/02		861	0 0	43		25 155,254 14 159,270	5.3
2002/03		887	Ü	43	↔	139,270	5.5
10th FYP	3.0					2.6	2.0
2003/04	. 5.0	914	0	43	. 8	71 163,411	5.3
2004/05		941	ő	46		95 167,660	
2005/06		969	0	46		23 172,019	
2006/07		999	0	46		52 176,491	5.4
2007/08	· 1	1,029	0	46		82 181,080	The state of the s

Notes

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.9 Projection of Agricultural Production and Consumption of Major Crops Total (000 tons)

	Major					528.3
According to the	Total	Total	Total	Total	:	Total
Year	Production	Seed Rsrve	I/E	Consumption	Population	Consum/cap.
6th FYP	0.6		•		:	
1983/84	51,259	1,576	1,143	48,540	91,880	5283
1984/85	50,460	1,657	68	48,735	94,730	514.5
1985/86	48,329	1,844	-116	46,343	97,670	474.5
1986/87	49,255	1,720	857	45,929	10,070	456.1
1987/88	52,494	1,742	964	49,538	103,820	477.1
	,	-,		17,050	105,020	177.1
7th FYP	1.2				s.	
1988/89	58,348	1,928	414	56,791	107,040	530.6
1989/90	57,019	1,928	-1,116	55,998	110,360	507.4
1990/91	57,926	1,954	192	55,345	113,780	486.4
1991/92	62,436	2,064	-36	60,298	117,320	514.0
1992/93	61,270	2,097	-1,556	60,662	120,840	502.0
		· ·				<u> </u>
8th FYP	3.8			3.0	3.0	
1993/94	63,559	2,139	-846	63,808	124,465	500.3
1994/95	65,941	2,210	-805	64,536	128,199	503.4
1995/96	68,419	2,284	-780	66,914	132,045	506.8
1996/97	70,997	2,361	-738	69,374	136,006	510.1
1997/98	73,681	2,441	-689	71,929	140,087	513.5
9th FYP	3.8			3.8	2.6	
1998/99	76,507	2,523	-666	74,650	143,729	519.4
1999/00	79,446	2,607	-624	77,463	147,466	525.3
2000/01	82,501	2,694	-586	80,393	151,300	531.3
2001/02	85,678	2,785	-548	83,441	155,234	537.5
2002/03	88,982	2,878	-3-40 -494	86,598	159,270	543.7
2002/03	30,702	2,070		00,578	159,270	J -1 3.1
10th FYP	3.8			3.7	2.6	
2003/04	92,362	2,971	-376	89,768	163,411	549.3
2004/05	95,875	3,066	-205	93,014	167,660	554.8
2005/06	99,526	3,166	-151	96,512	172,019	561.1
2006/07	103,321	3,268	-92	100,145	176,491	567.4
2007/08	107,266	3,374	73	103,819	181,080	573.3

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.10 Projection of Agricultural Production and Consumption of Fruits (000 tons)

	Minor						
	Fruits	Fruits	Fruits		Fruits	2	Fruits
Year	Production	Reserve	I/E	:	Consumption	Population	Consum/cap.
*		0%		-		•	
6th FYP	2.3	_			2.0	01.000	0.4.0
1983/84	3,26			142	3,126	91,880	34.0
1984/85	3,40			132	3,277	94,730	34.6
1985/86	3,61	· · · · · · · · · · · · · · · · · · ·		192	3,418	97,670	35.0
1986/87	3,64			208	3,432	10,070	34.1
1987/88	3,58	6 0		208	3,378	103,820	32.5
						. Ave.	34.0
7th FYP	2.0	•	•		1.7		20.4
1988/89	3,79			192	3,600	107,040	33.6
1989/90	3,88			202	3,680	110,360	33.3
1990/91	3,99			224	3,771	113,780	33.1
1991/92	4,00			250	3,750	117,320	32.0
1992/93	4,11	2 0	1 3	263	3,849	120,840	31.9
			* * * * * * * * * * * * * * * * * * * *			Ave.	32.8
8th FYP	4.5				5.1	3.0	2.0
1993/94	4,29	97 0	,	135	4,162	124,465	33.4
1994/95	4,49)	117	4,373	128,199	34.1
1995/96	4,69)	- 98	4,594	132,045	34.8
1996/97	4,90) .	77	4,827	136,006	35.5
1997/98	5,12).	53	5,071	140,087	36.2
					3.1	2.6	5.0
9th FYP	4.5	55 0		126	5,229	143,729	36.4
1998/99	5,35			204	5,392	147,466	36.6
1999/00	5,59			288	5,560	151,300	36.7
2000/01	5,84			378		155,234	36.9
2001/02	6,11			475		159,270	37.1
2002/03	6,38	80 : E	,	413	2,911	132,210	57.1
10th FYP	4.5				3.0	2.6	4.0
2003/04	6,6)	584		163,411	37.3
2004/05	6,9		0	701		167,660	37.4
2005/06	7,2		0	826		172,019	37.6
2006/07	7,6		0	959		176,491	37.7
2007/08	7,9	58	0 :	1,102	6,85 6	181,080	37.9

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.11 Projection of Agricultural Production and Consumption of Vegetables (000 tons)

	Minor	<u> </u>				
	Vegetables	Vegetables	Vegetables	Vegetables		Vegetables
Year	Production		I/E	Consumption	Population	Consum/cap.
		0%		*		
6th FYP	7.1			6.8		
1983/84	1,917	0	142	1,775	91,880	19.3
1984/85	1,906	50 0	132	1,774	94,730	18.7
1985/86	2,066	0	192	1,874	97,670	19.2
1986/87	2,453	0	208	2,245	10,070	22.3
1987/88	2,519	: 0	208	2,311	103,820	22.3
	e e e e e e e e e e e e e e e e e e e				Ave.	20.4
7th FYP	3.5			3.1		
1988/89	2,626	. 0	192	2,434	107,040	22.7
1989/90	2,751	,0	202	2,549	110,360	23.1
1990/91	2,759	·· · · · 0	224	2,535	113,780	. 22.3
1991/92	2,800	0	250	2,550	117,320	21.7
1992/93	3,018	0	263	2,755	120,840	22.8
					Ave.	22.5
•		s = -t				
8th FYP	3.3			5.1	3.0	2.0
1993/94	3,118	0	257	2,860	124,465	23.0
1994/95	3,220		215	3,005	128,199	23.4
1995/96	3,327	0	170	3,157	132,045	23.9
1996/97	3,437	0	120	3,317	136,006	24.4
1997/98	3,550	0	65	3,485	140,087	24.9
9th FYP	3.0		• •	3.1	2.6	5.0
1998/99	3,656		63	3,593	143,729	25.0
1999/00	3,766	0	61	3,705	147,466	25.1
2000/01	3,879	0	59		151,300	25.3
2001/02	3,995	0	<i>5</i> 6	3,939	155,234	25.4
2002/03	4,115	0	53	4,062	159,270	25.5
10th FYP	3.0	4.E		3.0	2.6	4.0
2003/04	4,239	. 0	55	4,184	163,411	25.6
2004/05	4,366	0	56	4,310	167,660	25.7
2005/06	4,497	0	57	4,440	172,019	25.8
2006/07	4,632	0	58	4,574	176,491	25.9
2007/08	4,771	0	60	4, 711	181,080	26.0

(1) Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

(2) Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

Appendix Table 2.2.4.12 Projection of Agricultural Production and Consumption of Fruits and Vegetables (000 tons)

	Minor			· <u> </u>		<u> </u>
· · · · · · · · · · · · · · · · · · ·	F&V	F&V	F&V	F&V		F&V
Year	Production	Reserve	I/E	Consumption	Population	Consum/cap.
· · · · · · · ·		0%				
6th FYP				3.8		4.7
1983/84	5,185	0	-284	4,901	91,880	53.3
1984/85	5,315	:: 0 -	264	5,051	94,730	<i>5</i> 3.3
1985/86	5,676	· 0	384	5,292	97,670	54.2
1986/87	6,093	0	416	5,677	10,070	56.4
1987/88	6,105	0	416	5,68 9	103,820	54.8
	ű.			•	Ave.	54.4
7th FYP	:	· · · · · · · · · · · · · · · · · · ·		2.3	4 3	The season of th
1988/89	6,418	4 × 24 × 0	. 384	6,034	107,040	56.4
1989/90	6,633	0	404	6,229	110,360	56.4
1990/91	6,754	. 0	448	6,306	113,780	55.4
1991/92	6,800	. 0	500	6,300	117,320	<i>5</i> 3.7
1992/93	7,130	0	526	6,604	120,840	54.7
					Ave.	55.3
•	A					
8th FYP	4.0		4	5.1	3.0	2.0
1993/94	7,415	. : 0	392	7,023	124,465	56.4
1994/95	7,711	0	333	7,378	128,199	57.6
1995/96	8,019	0	268	7,751	132,045	58. 7
1996/97	8,340	0	196	8,144	136,006	59.9
1997/98	8,674	0	118	8,556	140,087	61.1
9th FYP	3.9		•	3.1	2.6	Anger i e
1998/99	9,011	. 0	189	8,822	143,729	··· 2 · · · · 61.4
1999/00	9,362	0	265	9,097	147,466	arești, 61.7
2000/01	9,727	0	347	9,380	151,300	62.0
2001/02	10,106	0	434	9,672	155,234	62.3
2002/03	10,501	0	528	9,973	159,270	62.6
					•	
10th FYP	3.9	•		3.0	2.6	ta dag
2003/04	10,912	0	639	10,273	163,411	62.9
2004/05	11,339	0	757	10,583	167,660	63.1
2005/06	11,784	0	883	10,901	172,019	63.4
2006/07	12,247	0	1,018	11,229	176,491	63.6
2007/08	12,729	0	1,161	11,567	181,080	2, 4 at et 63.9
				*,	and the second second	

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.13 Projection of Agricultural Production and Consumption of Other Minor Crops (000 tons)

	Minor				; .		
ſ	Others	Others	Others	Others		Others	
Y ear	Production	Seed Rsrve	I/E	Consumption	Population	Consum/ca	ap.
		0%					
6th FYP	2.5			1.1			
1983/84	510	. 0	71	439	91,880		4.8
1984/85	54 3	0	66	477	94,730	<i></i>	5.0
1985/86	619	0	. 96	523	97,670		5.4
1986/87	595	0	104	491	10,070	the state	4.9
1987/88	562		104	458	103,820		4.4
	•			٠	Ave.		4.9
7th FYP	5.2			4.3			
1988/89	646	0	96	550	107,040	1741	5.1
1989/90	832	0	101	731	110,360	25.3	6.6
1990/91	752	0	112	640	113,780		5.6
1991/92	77 0	0	125	645	117,320	100	5.5
1992/93	790	0	140	650	120,840		5.4
<u> </u>	<u></u>				Ave.		5.7
8th FYP	4.0			3.5	3.0	2.0	
1993/94	822	. 0	117	705	124,465		5.7
1994/95	854	0	127	728	128,199	A Park	5.7
1995/96	889	0	135	754	132,045		5.7
1996/97	924	0	144	781	136,006		5.7
1997/98	961	0	152	809	140,087		5.8
9th FYP	4.0	*		3.2	2.6	5.0	
1998/99	1,000	0	166	834	143,729	100	5.8
1999/00	1,040	0	180	. 860	147,466		5.8
2000/01	1,081	0	194	⊹ 887	151,300		5.9
2001/02	1,124	0	209	: 916	155,234	1	5.9
2002/03	1,169	0	225	944	159,270	the second	5.9
10th FYP	3.3	-		3.2	2.6	4.0	
2003/04	1,208	0	235	973	163,411		6.0
2004/05	1,248	- 1 O -	246	1,002	167,660	(a) (b)	6.0
2005/06	1,289	0	255	1,034	172,019	· · · · · · ·	6.0
2006/07	1,332	0	264	1,067	176,491	**	6.0
2007/08	1,376	0	274	1,102	181,080	* * *	6.1

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.14 Projection of Agricultural Production and Consumption of Minor Crops Total (000 tons)

	Minor						<u> </u>	
	Total	Total	100	Tota		Total		Total
Year	Production	Seed Rsrve		I/E		Consumption	Population	. Consum/cap.
•		10%						•
6th FYP	4.0							
1983/84	5,695		0	:	355	5,340	91,880	38.8
1984/85	5,858	÷	0		330	5,528	94,730	39.6
1985/86	6,295	1,	0		48 0	5,815	97,670	40,4
1986/87	6,688	*.	0		520	6,168	10,070	39.0
1987/88	6,667	1.0	0		520	6,147	103,820	36.9
								38 .9
7th FYP	2.9							*
1988/89	7,064	100	0	:	480	6,584	107,040	38.8
1989/90	7,465		0		505	6,960	110,360	40.0
1990/91	7,506		0		560	6,946	113,780	38.8
1991/92	7,570		0		625	6,945	117,320	37.5
1992/93	7,920		0		666	7,254	120,840	37.2
							*	
8th FYP	4.0					4.8	3.0	
1993/94	8,236		0		. 508	4,867	124,465	
1994/95	8,565		0		460	5,101	128,199	39.8
1995/96	8,908		0		403	5,348	132,045	40.5
1996/97	9,264		0		340	5,608	136,006	41.2
1997/98	9,635		0		271	5,880	140,087	42.0
9th FYP	3.9	-				3.1	2.6	
1998/99	10,011	٠.	0		355		143,729	42.2
1999/00	10,402		0		445		147,466	42.4
2000/01	10,808		0		541	6,447	151,300	
2001/02	11,231		0		643		155,234	
2002/03	11,671	- *	0		· 753	6,855	159,270	43.0
•							•	
10th FYP	3.9					3.0	2.6	
2003/04	12,120		0		819		163,411	43.2
2004/05	12,587		0		947		167,660	
2005/06	13,073	11.	0		1,081		172,019	
2006/07	13,579		0		1,224		176,491	
2007/08	14,104	•	0		1,376	7,958	181,080	43.9

(1) Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.15 Projection of Agricultural Production and Consumption of Beef (000 tons)

Livestock

Beef Beef Beef Beef Beef. Year Production Reserve I/E Consumption Population Consum/cap. 0% 6th FYP 7.9 7.9 Ó 1983/84 488 0 488 91,880 5.3 1984/85 513 0 0 513 94,730 5.4 1985/86 600 0 0 600 97,670 6.1 1986/87 630 0 0 630 10.070 6.3 1987/88 661 0 0 661 103,820 6.4 Ave. 5.9 5.0 5.0 7th FYP 0 1988/89 694 0 694 107,040 6.5 729 0 1989/90 0 729 110,360 6.6 0 765 1990/91 765 0 113,780 6.7 1991/92 Ō 117,320 803 0 803 6.8 844 1992/93 Õ 844 0 120,840 7.0 6.7 Ave. 5.6 3.5 8th FYP 6.6 3.0 1993/94 891 0 25 867 124,465 7.0 1994/95 941 0 17 924 128,199 7.2 1995/96 994 0 9 985 132,045 7.5 1996/97 1.050 0 -1 1.050 136,006 7.7 1997/98 ō 1,108 -11 1.119 140,087 8.0 9th FYP 6.6 5.4 2.6 3.5 1998/99 0 -7 1,181 1.189 143,729 8.3 1999/00 1,259 0 -3 1,262 147,466 8.6

2

51

60

38

69

45

19

-11

1,341

1,380

1,466

1,556

1,597

1,696

1,801

1,912

5.3

151,300

155,234

159,270

163,411

167,660

172,019

176,491

181,080

2.6

8.9

8.9

9.2

9.5

9.5

9.9

10.2

10.6

3.5

Notes:

2000/01

2001/02

2002/03

2003/04

2004/05

2005/06

2006/07

2007/08

10th FYP

0

0

0

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ō

0

Sources:

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture

1,343

1,431

1,526

1,594

1,666

1,741

1,819

1,901

4.5

(4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product

Appendix Table 2.2.4.16 Projection of Agricultural Production and Consumption of Mutton (000 tons)

Livestock

		Mutton	Mutton	: .	Mutton	N	Autton		Mutton
Year		roduction	Reserve	· .	I/E			Population	Consum/cap.
	•		0%		<u> </u>				
6th FY]	P	1.0					1.0		
1983/84		436		0		0	436	91,880	4.7
1984/85		467		0		0	467	94,730	4.9
1985/86	the traffic part	473		0		0 -	473	97,670	4.8
1986/87		507		0		0	<i>5</i> 07	10,070	5.0
1987/88		453		0		0	453	103,820	54.4 4.4
	100							Ave.	4.8
7th FY	P	7.1	1.1				7.1	1. Page 1. Pag	
1988/89		<i>5</i> 81		0 :		0	<i>5</i> 81	107,040	5.4
1989/90		621	٤.	0		0	621	110,360	5.6
1990/91		665		0		0	665	113,780	5.8
1991/92	ut in the section of	713		0		. 0	713	117,320	6.1
1992/93		763		0		0	763	120,840	6.3
								Ave.	5.9
		•			•				
8th FY	P	6.0					4.0	3.0	1.0
1993/94	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	809	4	0 -		72	736	124,465	5.9
1994/95	4.4	857		. 0		91	766	128,199	6.0
1995/96	1.5	- 909		0 .	1	.12	797	132,045	6.0
1996/97		963		0	:1	.34	829	136,006	6.1
1997/98		1,021		0		59	863	140,087	6.2
9th FY	P	4.0	* *				3.6	2.6	4 } # 1.0
1998/99		1,062		0		168	894	143,729	6.2
1999/00	18 A 18 A	1,104		0 .		78	926	147 466	6.3
2000/01		1,149		0	· J	89	960	151,300	6.3
2001/02		1,195	:	. 0		200	995	155,234	6.4
2002/03	· *	1,242		0 -	2	212	1,031	159,270	6.5
10th FY	P	2.5					3.4	2.6	国动性1.0
2003/04	e taili	1,273		0		205	1,068	163,411	6.5
2004/05		1,305	;	0		209	1,096	167,660	j 6.5
2005/06		1,338		0		202	1,136	172,019	6.6
2006/07		1,371		0		195	1,177	176,491	6.7
2007/08	100 to 30	1,406		0		186	1,219	181,080	1990 of 6,7
					· .	* - * * * * * * * * * * * * * * * * * *	4.0		

Notes:

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased and a first and per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required; is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.17 Projection of Agricultural Production and Consumption of Poultry (000 tons)

	Livestock				·			
	Poultry	Poult		Poultry	Poultry			Poultry
Year	Production	Reser		I/E	Consump	tion	Population	Consum/cap.
		0%	·				-	
6th FYP	15.7			_	15.7		0.4.000	
1983/84		6	. 0	, 0		.86	91,880	0.9
1984/85		9	0			99	94,730	1.0
1985/86	12		- 0	, i (126	97,670	1.3
1986/87	13		. 0			134	10,070	1.3
1987/88		4	0)	154	103,820	1.5
		4.	•				Ave.	1.2
7th FYP	-2.4	1.			-2.4			• . •.*
1988/89	17	72	0			172	107,040	1.6
1989/90	15	57. : .	0	. (157	110,360	1.4
1990/91	15	51	0)	151	113,780	1.3
1991/92	15	56	0	(156	117,320	1.3
1992/93	15	56	0	. ()	156	120,840	1.3
					• • • • • • • •		Ave.	1.4
8th FYP	8.0	43			5.1		3.0	2.0
1993/94	and the second second	58	. 0)	177	124,465	1.4
1994/95		32	0		1	186	128,199	1.5
1995/96		97	Ó		i	196	132,045	1.5
1996/97		12	0		7	205	136,006	1.5
1997/98		29	0	1		216	140,087	1.
1227775								
9th FYP	6.0	1. 18.1			6.2		2.6	3.5
1998/99		43	0	. 14	1	229	143,729	1.0 ± 0.0
1999/00		58	0	1.		243	147,466	1.1
2000/01		73	0	1.		258	151,300	1.1
2001/02		89	0	1.		274	155,234	1.8
2002/03		07	0	į 1 .		291	159,270	1.8
2002/05	-	· ,	, . •		-		·	7 7 × 44
10th FYP	4.0	e e e e e e e e e e e e e e e e e e e			4.4		2.6	3.5
2003/04		19	0	1		309	163,411	1.5
2004/05		32	0	î		318	167,660	1.5
2005/06		45.	0	1		326	172,019	1.
2006/07		5 9	0	1		346	176,491	2.0
2007/08		73.	: 0			367	181,080	2.
2007/08	3	13/	v	· ·	U	507	101,000	~

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.18 Projection of Agricultural Production and Consumption of Meat (000 tons)

	Livestock						
	Meat	Meat	Meat	- 4	Meat		Meat
Year	Production	Reserve	I/E	Co	nsumption	Population	Consum/cap.
•	<u> </u>	0%			•		
6th FYP	5.9				5.9		
1983/84	1,010	0		0	1,010	91,880	11.0
1984/85	1,079	0		0	1,079	94,730	11.4
1985/86	1,199	0		0	1,199	97,670	12.3
1986/87	1,271	0		0	1,271	10,070	12.6
1987/88	1,268	0		0	1,268	103,820	12.2
7th FYP	5.1				5.1	e e	
1988/89	1,447	0		0	1,447	107,040	13.5
1989/90	1,507	. 0		0	1,507	110,360	13.7
1990/91	1,581	0		Ó	1,581	113,780	13.9
1991/92	1,672	0		0	1,672	117,320	14.3
1992/93	1,763	0		0	1,763	120,840	14.6
						Ave	14.0
8th FYP	6.0				5.4	3.0	2.0
1993/94	1,869	0		38	1,780	124,465	14.6
1993/94	1,980	0.		04	1,876	128,199	14.7
1995/96	2,099	0		22	1,978	132,045	14.8
1996/97	2,225	ő		40	2,085	136,006	14.8
1997/98	2,359	0		61	2,198	140,087	14.9
					4.8	2.6	5.0
9th FYP	5.5			76	2,312	143,729	15.0
1998/99	2,486	0		75 . 80	2,432	147,466	15.0
1999/00	2,621	0		89 05	2,432	151,300	15.2
2000/01	2,764	0		66 ·	2,539	155,234	15.5
2001/02	2,915	0		87	2,788	159,270	15.6
2002/03	3,075	0		.07	2,700	139,270	15.0
10th FYP	3.7				4.5	2.6	4.0
2003/04	3,187	0		53	2,934	163,411	15.8
2004/05	3,303	. 0		93	3,010	167,660	15.8
2005/06	3,424	0		67	3,157	172,019	15.9
2006/07	3,549	0		26	3,323	176,491	16.0
2007/08	3,680	0	1	81	3,499	181,080	16.1

Notes

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.19 Projection of Agricultural Production and Consumption of Egg (000 tons)

0

0

0

0

0

Livestock

5.9

6.0

153

86

93

90

92

7th FYP

9th FYP

1998/99

1988/89

1989/90

1990/91

1991/92

Egg Egg Egg Egg Egg Year Production Reserve Consumption Consum/cap. Population 0% 6th FYP 3.6 3.6 1983/84 72 0 0 72. 91,880 8.0 1984/85 0 81 0 81 94,730 0.9 1985/86 0 69 0 69 97,670 0.7 1986/87 76 0 0 76 10,070 0.8 1987/88 83 0 0 83 103,820 8.0 Ave. 0.8

5.9

4.7

133

86

93

90

92

107,040

110,360

113,780

117,320

2.6

143,729

0.8

0.8

0.8

0.8

2.0

0.9

1.1

0

0

0

0

20

			•		- 22	111,020	v.
	108	0	0		108	120,840	0.
						Ave.	0.
		*					
6.0				5.1		3.0	2.0
	114	0	10		104		0.
	121	0	12		110		0.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	129	0	13		115		0.
	136	0	15		121	-	0.
	145	0	17		127		0.
	6.0	6.0 114 121 129 136	6.0 114 0 121 0 129 0 136 0	6.0 114 0 10 121 0 12 129 0 13 136 0 15	6.0 5.1 114 0 10 121 0 12 129 0 13 136 0 15	6.0 5.1 114 0 10 104 121 0 12 110 129 0 13 115 136 0 15 121	108 0 0 108 120,840 Ave. 6.0 5.1 3.0 114 0 10 104 124,465 121 0 12 110 128,199 129 0 13 115 132,045 136 0 15 121 136,006

1999/00	162	0	23	139	147,466	0.9
2000/01	172	0	26	146	151,300	1.0
2001/02	182	0	30	153	155,234	1.0
2002/03	193	0	34	160	159,270	1.0
						1
10th FYP 4.0	•		4.1		2.6	2.0
2003/04	201	0	34	167	163,411	. 1.0
2004/05	209	0	38	172	167,660	1.0
2005/06	218	0	38	180	172,019	0.1
2006/07	226	0	38	188	176,491	1.1
2007/08	235	0	39	197	181,080	1.1

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.20 Projection of Agricultural Production and Consumption of Total Livestock, ex-Milk (000 tons)

Livestock

	Total Ex-Milk	Total	Total Ex-Mi	lk	Total Ex-Milk		Total Ex-Milk
Year	Production	Reserve	I/E	I.K.	Consumption	Population	Consum/cap.
ı ca	Troduction	0%	112		Consumption	1 Opulation	Consumeap.
6th FYP	5.7						N 114
1983/84	1,082	0		0	1,082	91,880	11.8
1984/85	1,160	0		0	1,160	94,730	12.2
1985/86	1,268	. 0		0	1,268	97,670	13.0
1986/87	1,347	. 0		0	1,347	10,070	13.4
1987/88	1,351	0		0	1,351	103,820	13.0
1						Ave.	12.7
7th FYP	5.1					1.79	· 建铁铁矿物
1988/89	1,533	0		0	1,533	107,040	14.3
1989/90	1,600	0		0.	1,600	110,360	14.5
1990/91	1,671	0	٠	0	1,671	113,780	14.7
1991/92	1,764	0		0	1,764	117,320	15.0
1992/93	1,871	. 0		0	1,871	120,840	15.5
					. :	Ave.	14.8
8th FYP	6.0				5.4	3.0	
1993/94	1,983	0		98	1,885	124,465	15.1
1994/95	2,102	. 0		116	1,986	128,199	15.5
1995/96	2,228	. 0		135	2,093	132,045	15.8
1996/97	2,361	0		156	2,206	136,006	16.2
1997/98	2,503	0	· · · · · · · · · · · · · · · · · · ·	178	2,325	140,087	16.6
9th FYP	5.5				4.8	2.6	
1998/99	2,640	0	the second	195	2,445	143,729	17.0
1999/00	2,784	0		212 ·	2,571	147,466	17.4
2000/01	2,734	. 0		232	2,705	151,300	17.9
2001/02	3,098	. 0		296	2,802	155,234	18.0
2002/03	3,268	ő		321	2,948	159,270	18.5
1002/05					2,7 1,0	107,270	10.0
10th FYP	3.7				4.5	2.6	
2003/04	3,388	. 0		287	3,101	163,411	19.0
2004/05	3,512	. 0		330	3,182	167,660	19.0
2005/06	3,641	0		305	3,337::	172,019	19.4
2006/07	3,776	0		264	3,511	176,491	19.9
2007/08	3,915			220	3,696	181,080	20.4
			: '				

Notes:

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division at the Advisor's Wing,
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.21 Projection of Agricultural Production and Consumption of Milk (000 tons)

	Livestock					
	Milk	Milk	Milk	Milk		Milk
Year	Production	Reserve	I/E	Consumption	Population	Consum/cap.
		0%			Y Y	
6th FYP	1.4			1.4		
1983/84	7,844	0	. 0	7,844	91,880	85.4
1984/85	8,308	. 0	,0	8,308	94,730	87.7
1985/86	9,304	0	0	9,304	97,670	95.3
1986/87	9,776	,0	0	9,776	10,070	97.1
1987/88	8,308	.0	. 0	8,308	103,820	80.0
		•			Ave.	89.1
7th FYP	5.0			5.0		
1988/89	10,797	,0	0 .	10,797	107,040	100.9
1989/90	11,348	.0	0	11,348	110,360	102.8
1990/91	11,927	0	0	11,927	113,780	104.8
1991/92	12,542	0		12,542	117,320	106.9
1992/93	13,100	0	0	13,100	120,840	108.4
		The second second			Ave.	104.8
Out Trans		•				
8th FYP	6.0			5.9	3.0	2.8
1993/94	13,886	0.	15	13,871	124,465	111.4
1994/95	14,719	0	32	14,687	128,199	114.6
1995/96	15,602	0	51	15,551	132,045	117.8
1996/97	16,538	0	72	16,466	136,006	121.1
1997/98	17,531	0	96	17,435	140,087	124.5
Od. EVD	4.6				1999 A. C.	
9th FYP 1998/99	4.5		70	4.7	2.6	2.8
1999/00	18,320	0	-70	18,389	143,729	127.9
2000/01	19,144	0	277	18,867	147,466	127.9
2000/01	20,006	0	106	19,900	151,300	131.5
2001/02	20,906		-83	20,989	155,234	135.2
2002/05	21,847	0	-291	22,138	159,270	139.0
10th FYP	4.5			4.7	2.6	2.0
2003/04	22,830	0	116	22,713	163,411	139.0
2004/05	23,857	0	87	23,770	167,660	141.8
2005/06	24,930	0	55	24,876	172,019	144.6
2006/07	26,052	0	19	26,033	176,491	147.5
2007/08	27,225	0.	-19	27,244	181,080	150.5
4 (4)	した こうおう アン・・・・・・・・ 熱さん だんご		1.9			

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.22 Projection of Agricultural Production and Consumption of Livestock Total (000 tons)

Livestock

	Livestock			<u> </u>	<u> </u>		
	Total	Total	Total		Total		Total
Year	Production	Reserve	I/E	-:	Consumption	Population	Consum/cap.
ca =====	A A :	0%					
6th FYP	2.0				2.0		
1983/84	8,926	0		0	8,926	91,880	97.1
1984/85	9,468	. 0		0	9,468	94,730	99.9
1985/86	10,572	0		0	10,572	97,670	108.2
1986/87	11,123	0		0	11,123	10,070	110.5
1987/88	9,659	0		0	9,659	103,820	93.0
7th FYP	5.0	e e			5.0		
1988/89	12,330	0		0	12,330	107,040	115.2
1989/90	12,948	Ō		0	12,948	110,360	117.3
1990/91	13,598	Ö		ŏ	13,598	113,780	119.
1991/92	14,306	ő		0	14,306	117,320	121.9
1992/93	14,971	0		0	14,971	120,840	123.9
				:		Ave.	119.0
04 FVD					50		
8th FYP 1993/94	6.0	^		110	5.8	3.0	2.0
1993/9 4 1994/95	15,869	. 0		113	15,756	124,465	124.4
	16,821	0		148	16,673	128,199	124.9
1995/96	17,830	0		186	17,644	132,045	125.4
1996/97	18,900	0		228	18,672	136,006	125.9
1997/98	20,034	0		274	19,760	140,087	126.4
9th FYP	4.6				4.8	2.6	5.0
1998/99	20,959	0		125	20,834	143,729	127.
1999/00	21,928	. 0		489	21,439	147,466	128.9
2000/01	22,942	0		337	22,605	151,300	130.2
2001/02	24,003	0		212	23,791	155,234	131
2002/03	25,115	0		29	25,085	159,270	132.8
10th FYP	4.4				4.6	2.6	4.0
2003/04	26,217	. 0		403	25,814	163,411	133.9
2003/04	27,369	0		417	26,952	167,660	133.5
2005/06	28,572	0		360	28,212	172,019	135.0
2006/07	29,828	0		284	29,544	176,491	136.0
2007/08	31,140	0	* .	201	30,939	181,080	137.
-	2 2,2 10			-01	50,707	101,000	101.

Notes:

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.23 Projection of Agricultural Production and Consumption of Inland Fishery (000 tons)

	Fishery						:
	Inland	Inland	Inland		Inland		Injand
Year	Production	Reserve	I/E		Consumption	Population	Consum/cap.
		0%					
6th FYP	10.8				10.8		
1983/84	61	0		0	61	91,880	0.7
1984/85	71	0		0	71	94,730	0.7
1985/86	76	0		0	76	97,670	0.8
1986/87	85	0	•	0	85	10,070	0.8
1987/88	92	0		0	92	103,820	0.9
					•	Ave.	0.8
7th FYP	5.5		*		5.5		
1988/89	97	0		0	97	107,040	0.9
1989/90	106	0		0	106	110,360	1.0
1990/91	113	0		0	113	113,780	1.0
1991/92	116	0		.0.	116	117,320	1.0
1992/93	120	0	7	0	120	120,840	1.0
						Ave.	1.0
8th FYP	2.8				3.2	3.0	2.0
1993/94	123			3 2	121	124,465	1.0
1994/95	127			2	125	128,199	1.0
1995/96	130			2	129	132,045	1.0
1996/97	134			1	133	136,006	1.0
1997/98	138	. 0		1	137	140,087	1.0
9th FYP	4.0	100			3,1	2.6	5.0
1998/99	143	0	:	2	141	143,729	1.0
1999/00	149			3	146	147,466	1.0
2000/01	155			5	150	151,300	1.0
2001/02	161			6	155	155,234	1.0
2002/03	168			8	160	159,270	1.0
2002/05	100	,		Ŭ,	100	132,270	1.0
10th FYP	5.0				3.0	2.6	4.0
2003/04	176	0		11	165	163,411	1.0
2004/05	185	0		15	169	167,660	1.0
2005/06	194	0		19	175	172,019	1.0
2006/07	204			24	180	176,491	1.0
2007/08	214	0		29	185	181,080	1.0

Notes:

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.24 Projection of Agricultural Production and Consumption of Marine Fishery (000 tons)

	Fishery									
	Marine		Marine		Marine)	Marine		1.74-1.1	Marine
Year	Producti	on	Reserve		I/E	· ·	Consumpt	ion	Population	Consum/cap.
			0%		8 1 A.A.	-		••	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
6th FYP	4.4	-	1.1			_, .	2.3		43 + 3	10.13 to 1
1983/84	1.50	284		0		71		213	91,880	2.3
1984/85	7.3	309		0		66		243	94,730	2.6
1985/86	a the state	334		0		96		238	97,670	2.4
1986/87		331		0		104		227	10,070	2.3
1987/88	H _a Cary	337		0		104		233	103,820	2.2
1.)	247								Ave.	2.4
7th FYP	2.2		1.17	_			-0.3			r Alexania
1988/89	11.00	349		.0		96		253	107,040	2.4
1989/90	151 ()	341		0		101	•	240	110,360	2.2
1990/91	188	367		0		112		255	113,780	2.2
1991/92	. + <u> </u>	375.		0	<u> </u>	125		250	117,320	2.1
1992/93	4 J. Mr. 38	380	···	0.		130		250	120,840	2.1
					• •		to the suggestion		Ave.	2.2
Out TRATE	0.0									
8th FYP	2.9	201	1 × 1	^	•	110	3.2	074	3.0	2.0
1993/94	main on a	391		0		117	* .	274	124,465	.2.2
1994/95	114 - 1	402		-0		120		283	128,199	2.2
1995/96		414		0		122		292	132,045	,2.2
1996/97		426		0		125	·	301	136,006	2.2
1997/98	10000	438		U		128		511	140,087	2.2
9th FYP	-3.2						3.1		2.6	5 0
1998/99		452	1.7	0		132	. 3.1	320	143,729	5.0 2.2
1999/00		467		.0		137		330	147,466	2.2
2000/01	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	482		0	•	141		341	151,300	2.3
2001/02		497		0		146		351	155,234	2.3
2001/02		513		0		151		362	159,270	2.3
2002/03	Ha. Hil	J1J :				17,1		502	137,270	S. 200
10th FYP	3.2						3.0		2.6	4,0
2003/04	3.2	530		.0		1,57	5.0	373	163,411	2.3
2003/04	er i de la companya d	547		0		162		384	167,660	2.3
2005/06		564		0		168		396	172,019	2.3
2006/07		582		0		174		408	176,491	$\frac{2.3}{2.3}$
, 2007/08	ing the state of t	601		0		181		420	181,080	2.3
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			J					202,500	

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.25 Projection of Agricultural Production and Consumption of Fishery Total (000 tons)

	Fishery						
		shery	Total	Total	Total	Dopulation	Congumlars
Year Year	Proc	duction	Reserve	I/E	Consumption	ropulation	Consum/cap.
CAL TRUD			0%		4.4		2 4
6th FYP		345	0	71	274	91,880	3.0
1983/84 1984/85		380	. 0	66	314	94,730	3.3
1984/83 1985/86	and a Marines	410	0	96	314	97,670	3.2
1986/87		416	0	104	312	10,070	3.1
1987/88		429	.0	104	325	103,820	3.1
1907/00		747	.0		2-0-	Ave.	3.1
7th FYP	1			•	1.4		
1988/89	9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	446	0	96	350	107,040	3.3
1989/90		447	ő	101	346	110,360	3.1
1990/91		480	.0	112	368	113,780	3.2
1991/92		491	. 0	125	366	117,320	. 3.1
1992/93		500	0	130	370	120,840	3.1
1772,75			· · · · · · · · · · · · · · · · · · ·	`		Ave.	3.2
						•	
8th FYP	100	2.9			3.2	3.0	2.0
1993/94	100	514	· · 0	120	395	124,465	3.2
1994/95		529	: 0	122	407	128,199	3.2
1995/96	. 4	544	.0	124	420	132,045	3.2
1996/97		560	0	126	434	136,006	3.2
1997/98	Table 1	576	0	128	448	140,087	. 3.2
					0.1		
9th FYP		3.4		104	3.1 462	2.6 143,729	3.2
1998/99		596	5,45 0	134	402 476.	147,466	3.2
1999/00	Street, It	616	0	140		151,300	3.2
2000/01	The section	637:	0	146	491: 506.		3.3
2001/02		658	0	152	522	159,270	3.3 3.3
2002/03		681	: 0	159	342	139,270	J.,
10th FYP		3.7			3.0	2.6	
2003/04	348) ST	706	0	168	538	-	3.3
2004/05	A Share	731	0	178	554		3.3
2005/06		758	0	188	570		3.3
2006/07	4.4.	786	0	198	588		3.3
2007/08		815	0	209	605	181,080	3.3

Notes

(1) Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

Sources:

(1) JICA Study Team

- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture

(4) KPT, PQA

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.26 Projection of Agricultural Production and Consumption of Fuelwood (000 tons)

Forestry Fuelwood Fuelwood Fuelwood Fuelwood Fuelwood Year Production Reserve I/E Consumption Population Consum/cap. 0% 6th FYP 6.6 6.6 91,880 3.8 1983/84 345 0 0 345 0 0 94,730 4.8 1984/85 454 454 0 97,670 3.9 0 385 1985/86 385 10.070 0 5.4 1986/87 543 0 543 4.3 0 445 103,820 1987/88 445 0 4.4 Ave. 18.1 7th FYP 18.1 385 107,040 3.6 1988/89 385 0 0 0 422 110,360 3.8 1989/90 422 0 0 7:5 0 851 113,780 1990/91 851 117,320 6.8 1991/92 800 0 0 800 750 0 750 120,840 6.2 1992/93 0 Ave. 5.6 3.0 2.9 3.0 8th FYP 0 772 124,465 6.2 1993/94 772 0 0 -1 795 128,199 6.2 1994/95 794 1995/96 0 -2 819 132,045 6.2 817 136,006 1996/97 0 -2 843 6.2 841 -3 869 140,087 6.2 1997/98 865 0 9th FYP 2.0 2.6 2.6 20 862 143,729 6.0 1998/99 883 0 0 885 147,466 6.0 1999/00 900 15 0 10 908 151,300 6.0 2000/01 918 2001/02 937 0 5 931 155,234 6.0 955 0 0 956 159,270 6.0 2002/03 2.6 2.6 10th FYP 1.5 5.7 2003/04 970 0 38 931 163,411 29 956 167,660 5.7 2004/05 984 0 999 18 981 172,019 2005/06 0 5.7 8 176,491 2006/07 1,014 0 1,006 1,032 181,080 5.7 2007/08 1,029 0 -3

Notes

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.27 Projection of Agricultural Production and Consumption of Timber (000 tons)

en e	Forestry				reduced to		·
	Timber	Timber		Timber	Timber		Timber
Year	Production	Reserve		I/E	Consumption	Population	Consum/cap.
		0%					
6th FYP	8.9				8.4		
1983/84	26		0	-20	281	91,880	3.1
1984/85	33		0	-15	345	94,730	3.6
1985/86	31		0	-72	385	97,670	3.9
1986/87	40		0	-30	437	10,070	4.3
1987/88	30	57	0	-21	388	103,820	3.7
					*	Ave.	3.7
7th FYP	-8.2				-9.1		
1988/89	29	2 6	0	-19	315	107,040	2.9
1989/90	2.	55	0.	-22	277	110,360	2.5
1990/91	22	21	0	-12	233	113,780	2.0
1991/92		20	0	-4	224	117,320	1.9
1992/93	2	10	0	-5	215	120,840	1.8
			٠			Ave.	2.2
8th FYP	2.5			•	4.0	3.0	
1993/94		15	0	-8	224	124,465	1.8
1994/95	2		0	-12	233	128,199	1.8
1995/96	22	26	0	-16	242	132,045	1.8
1996/97		32	0	-20	252	136,006	1.8
1997/98	2	38	0	-24	262	140,087	1.9
9th FYP	3.5	para di Para d			4.0	2.6	
1998/99		46	0	-26	272	143,729	1.9
1999/00		55	0 .	-28	283	147,466	1.9
2000/01		63	0	-31	294	151,300	1.9
2001/02	2	73	0	-33	306	155,234	2.0
2002/03	21	82	0	-36	318	159,270	2.0
10th FYP	3.5				4.0	2.6	* 4
				20			2.0
2003/04		92 93	0	-39 42	331 344	163,411	2.0
2004/05		02	0	-42 45	344	167,660	2.1
2005/06		13	0.	-45	358	172,019	2.1
2006/07		24	0	-48 50	372	176,491	2.1
2007/08	3	35	0	-52	387	181,080	2.1

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.28 Projection of Agricultural Production and Consumption of Forestry Total (000 tons)

	Forestry	•				
	Total	Total	Total	Total		Total
Year	Production	Reserve	I/E	Consumption	Population	Consum/cap.
	* ***	0%			:	•
6th FYP	7.6	4.1	1		en e	e de la companya de La companya de la companya de l
1983/84	606	- 0	-20	626	91,880	6.8
1984/85	784	0	-15	799	94,730	8.4
1985/86	698	0	-72	770	97,670	7.9
1986/87	950	0	-30	980	10,070	9.7
1987/88	812	0	-21	833	103,820	8.0
		• •			Ave.	8.2
7th FYP	9.0				, ·	and the first part
1988/89	681	0	-19	700	107,040	6.5
1989/90	677	0	-22	699	110,360	6.3
1990/91	1,072	0	-12	1,084	113,780	9.5
1991/92	1,020	0	. 4	1,024	117,320	8.7
1992/93	960	0	-5	965	120,840	8.0
		and the second	1.0		Ave.	7.8
						•
8th FYP	2.8			3.2	3.0	
1993/94	987	.0	-8	995	124,465	8.0
1994/95	1,015	0	-13	1,027	128,199	8.0
1995/96	1,043	A .0	-17		132,045	8.0
1996/97	1,073	,0	-22	1,095	136,006	8.0
1997/98	1,103	0	-27	1,130	140,087	······································
Oth EVD	22			2.9	2.6	
9th FYP	2.3				and the second s	70
1998/99	1,128	0	-6	1,134	143,729	7.9
1999/00	1,155	0	-13	1,168	147,466	7.9
2000/01	1,182	0	-20		151,300	7.9
2001/02	1,209	0	-28		155,234	8.0
2002/03	1,237	.0	-36	1,274	159,270	8.0
10th FYP	2.0			3.0	2.6	
2003/04	1,262	0	1	1,262	163,411	7.7
2004/05	1,286	.0	-13	1,300	167,660	7.8
2005/06	1,312	0	-27	1,338	172,019	7.8
2006/07	1,338	0	-41		176,491	7.8
2007/08	1,364	0_{i}	-55	1,419	181,080	7.8

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.29 Projection of Total Agricultural Production and Consumption (000 tons)

Α	griculture Sector	<u> </u>	·	
	Total	Total	Total	Total
Year _	Production	Reserve	I/E	Consumption
6th FYP	1.2		e de la companya de	1.1
1983/84	66,831	1,576	1,549	63,706
1984/85	66,950	1,657	449	64,844
1985/86	66,304	1,844	388	63,814
1986/87	68,432	1,720	1,451	64,512
1987/88	70,061	1.742	1,567	66,502
\$ 1	Carlo C	1 11	3.0	į.
7th FYP	2.1			2.3
1988/89	78,8 69	1,928	143	76,755
1989/90	78,556	1,928	-532	76,951
1990/91	80,582	1,954	852	77,341
1991/92	85,823	2,064	710	82,939
1992/93	85,621	2,097	-765	84,222
		* 1		
8th FYP	4.2			3.7
1993/94	89,166	2,139	-113	85,821
1994/95	92,871	2,210	-88	87,744
1995/96	96,744	2,284	-84	91,387
1996/97	100,794	2,361	-66	95,182
1997/98	105,029	2,441	-43	99,146
9th FYP	4.0		1	3.9
1998/99	109,202	2,523	-57	103,143
1999/00	113,546	2,607	437	106,797
2000/01	118,069	2,694	418	111,137
2001/02	122,780	2,785	432	115,624
2002/03	127,685	2,878	412	120,334
	ata in the same of			
10th FYP	3.9		1 /	3.8
2003/04	132,667	2,971	1,013	124,444
2004/05	137,849	3,066	1,323	129,093
2005/06		3,166	1,450	134,128
2006/07	148,852	3,268	1,573	139,378
2007/08	154,689	3,374	1,804	144,740
and the second of the second	The second second	and the second second second	and the second	The second secon

Notes

- (1) JICA Study Team
- (2) Economic Survey 1993-94, Economic Advisor's Wing, Finance Division
- (3) Agriculture Annual Report 1992, Ministry of Agriculture
- (4) KPT, PQA

⁽¹⁾ Per capita consumption of each commodity for each FYP period are adjusted to be increased per annum by appropriate rate in 8th, 9th and 10th FYP periods respectively.

⁽²⁾ Rate of seed reserve, where such reservation is required, is assumed to be the ratio appeared in the above table to secure self-sufficiency and price stabilization of subject product.

Appendix Table 2.2.4.30 Projection of Production and Consumption of Edible Oil (000 tons)

	Processed Product Edible Oil			ble Oil	Edible Oil		Edible Oil
Year	Production	Reserve		I/E	Consumption	Population	Consum/cap.
		0%					
6th FYP	4.0	* .			4.2	04.000	150
1983/84	595		0	-857	1,452	91,880	15.8
1984/85	- 640		0	-663	1,303	94,730	13.8
1985/86	612		0	-825	1,437	97,670	14.7
1986/87	609		0	-710	1,319	100,070	13.2
1987/88	697		0	-1,013	1,710	103,820	16.5
					*	Ave.	14.8
7th FYP	-0.4				1.0		· · · · · · · · · · · · · · · · · · ·
1988/89	684		0	-1,144		107,040	17.1
1989/90	683		0	-962		110,360	14.9
1990/91	656		0	-959	1,615	113,780	14.2
1991/92	575		0	-1,045	1,620	117,320	13.8
1992/93	672		0	· -1,230	1,902	120,840	15.7
					A Company	Ave	15.1
1.0	1					Ave. 10 yrs	15.0
8th FYP	5.0				11.0	3.0	2.0
1993/94	706		0	-1,161	1,866	124,465	15.0
1994/95	741	natifi Karamatan	0	-1,331	2,072	128,199	15.2
1995/96	778		0	-1,523	2,301	132,045	15.5
1996/97	817		0	-1,738	2,555	136,006	15.7
1997/98	858		0	-1,980	2,837	140,087	15.9
9th FYP	5.0	·	1+		5.4	2.6	5.0
1998/99	901		0	-1,401	2,302	143,729	16.0
1999/00	946		0	-1,480		147,466	16.3
2000/01	993		0	-1,563	2,556	151,300	16.
2001/02	1,042		0	-1,650		155,234	
2002/03	1,095	. 5	0	-1,743		159,270	
2002/05	1,025		* .	-,,,,-			
10th FYP	5.5				0.6	2.6	4.0
2003/04	1,155	4	0	-1,617	2,772	163,411	17.0
2004/05	1,218		0	-1,570		167,660	17.2
2005/06	1,285		0	-1,519		172,019	17.
2006/07	1,356		0	-1,465	2,821	176,491	17.9
	1,431			-1,407		181,080	18

⁽¹⁾ Economic Survey 1993/94, Economic Advisor's Wing, Financial Division
(2) 8th Five Year Plan, Planning Commission
(3) JICA Study Team

	Appendix Table 2.2.4.31 Projection of Production and Consumption of Refined Sugar (000 tons) Refined Sugar Sugar Cane as Raw Material	.31 Project	ion of Prc	oduction a	nd Consum	aption of R	efined Sugar (000). Sugar Cane as Raw Material	ar (000 tc	ns)			
X	Sugar	Sugar	Sugar 1/E	Sugar	Population	Sugar Consum/cap.	Sugar Cane Production	Sugar Cane Reserve	Sugar Cane 1/E	Sugar Cane Consumption	Population	Sugar Cane Consum/cap.
		950						%0		ő		
6th FYP	11.6	٠		15.3	41 880	> 23	74 287	2		34,287	91,880	
1983/84	1,149	•	•	1.313	94.730	13.9	32,139	:		0 32,139	94,730	
1984/86	1.116		-258	1.374		14.1	27,856				019'16	
1986/87	1.283	0	750			-	29,926			0 29,926	100,070	
1987/88	1,781	0	-251		10		33,029	,	1	33,029	103,820	
		:			Ave.	16.1	1	*.			AYC.	
7th FYP	2.8		. !	3.1		•	0.7	,		0.7	107 040	
1988/89	1,850	0	₹				36,976			0/8/00	110.360	
1989/90	1,855	0 (209	2,064	110,360	187	35,493		٠			
1990/91	1,932		31. 110		•	Ç.	38,865			0 38,865		
1002/03	2 070	0	19	2,137	120,840		38,059))	0 38,059	120,840	
						18.7				j.	Ave.	
			(i)		Ave. 10 yrs	17.4					Ave. 10 yrs	
										ć	c r	•
Sth FYP	9			6.5	ri	2.0	6.			3.5	200	3
1993/94	2,194	0	٠ و	2,203	124,465	17.7	٠		00	41 085	128 100	
1994/95	2,326	> <	7 6	. :		o cr	42.688					
1995/96	2,463	•	9 5				44,353					
1997/98	2,770	Ô	19-	2,837			46,082		0	0 46,082	140,087	
						9	9			40	2.6	4.1
9th FYP	5.6	•	F	5.5			47 926			0 47.926	143,729	
1998/99	3,700	9 6	1,				49.843				147,466	
2000/01	3,753	0 0	97-			- 2						
2001/02	3.432	0	82	÷,		20.3				0.53,910		
2002/03	3,620	0	8	3,708		20.4				990'95 0	159,270	
						Ç				40	2.6	4.1
10th FYP	2.5		. f	1.0 0	163 414					58309		
2003/04	0.28,5	~ ~	ŧ 8			20.9		٠	. 0	-		
2004002	1300	٥	18							790 63 067	172,019	
								•				
20000	4 496	٥	7.0			21.7						

(1) Economic Survey 1993/94, Economic Advisor's Wing, Financial Division (2) 8th Five Year Plan, Planning Commission (3) JICA Study Team

Appendix Table 2.2.4.32 Projection of Production and Consumption of Fertilizer (000 tons)

	Fertilizer		
	2	Fertilizer	
Year	Production	I/E	Consumption
1978/79	938	-400	1,338
1979/80 .	1,177	-500	1,677
1980/81	1,605.	-1,294	2,899
1981/82	1,952	-414	2,366
1982/83	2,775	-692	3,467
5th FYP	31.1	14.7	26.9
1983/84	2,676	-491	3,167
1984/85	2,714	-5 69	3,283
1985/86	2,734	-456	3,190
1986/87	2,929	-600	3,529
1987/88	2,856	-1,044	3,900
6th FYP	1.6	20.8	5.3
	19		
1988/89	2,929	-782	3,711
1989/90	3,038	-1,066	4,104
1990/91	2,956	-1,120	4,076
1991/92	2,795	-831	3,626
1992/93	3,204	-1,153	4,357
7th FYP	2.3	10.2	4.1
		Harris (Maria	
8th FYP	5.0		5.7
1993/94	3,364	-1,241	4,605
1994/95	3,532	-1,335	4,868
1995/96	3,709	-1,436	5,145
1996/97	3,894	-1,544	5,439
1997/98	4,089	-1,659	5,749
9th FYP	4.0		2.5
1998/99	4,253	-1,640	5,892
1999/00	4,423	-1,617	6,040
2000/01	4,600	-1,591	6,191
2001/02	4,784	-1,562	6,345
2002/03	4,975	-1,529	6,504
10th FYP	4.0		2.0
2003/04	5,174	-1,460	6,634
2004/05	5,381	-1,386	6,767
AAAC IOC			
2005/06	5,596	-1,306	6,902
2005/06 2006/07 2007/08	5,596 5,820 6,053	-1,306 -1,220 -1,128	6,902 7,040 7,181

⁽¹⁾ Economic Survey 1993/94, Economic Advisor's Wing, Financial Division (2) 8th Five Year Plan

⁽³⁾ JICA Study Team

Appendix Table 2.2.4.33 Projection of Production and Consumption of Cement (000 tons)

	Cement		
		Cement	A 44 14
Year	Production	I/E	Consumption
4 0 11 0			
1978/79	3,023	-630	3,653
1979/80	3,343	-611	3,954
1980/81	3,583	-444	4,027
1981/82	3,657	-1,302	4,959
1982/83	3,938	-647	4,585
5th FYP	6.8	0.7	5.8
1983/84	4,503	-871	5,374
1984/85	4,732	-722	5,454
1985/86	5,773	-722 -217	
1986/87			5,990
	6,508	-5 -12	6,513
1987/88	7,072		7,084
6th FYP	11.9	-65.7	7.2
1988/89	7,125	-24	7,149
1989/90	7,488	-3	7,491
1990/91	7,762	-19	7,781
1991/92	8,321	7	8,328
1992/93	8,551	-44	8,595
7th FYP	4.7	16.4	4.7
8th FYP	8.6	100 mm 1	9.0
1993/94	9,286	82	9,369
1994/95	10,085	-127	10,212
1995/96	10,952	-178	11,131
1996/97	11,894	-238	12,133
1997/98	12,917	-307	13,224
9th FYP	6.6		6.0
1998/99	13,770	-248	14,018
1999/00	14,678	-181	14,859
2000/01	15,647	-103	15,751
2001/02	16,680	-16	16,696
2002/03	17,781	84	17,697
1045 7570			4.0
10th FYP	4.0	02	4.0
2003/04	18,492	87	18,405
2004/05	19,232	90	19,141
2005/06	20,001	94	19,907
2006/07	20,801	98	20,703
2007/08	21,633	102	21,532

⁽¹⁾ Economic Survey 1993/94, Economic Advisor's Wing, Financial Division (2) 8th Five Year Plan, Planning Commission (3) JICA Study Team

Appendix Table 2.2.4.34 Projection of Production and Consumption of Iron and Steel (000 tons)

1982 No. 1 Transmitten of the control of		Tron and Creel (incl. Coron)	Corron)							Coak			Coak
Froduction I.E. Consumption I.E. Consumption I.E. Consumption Steel Pro. I.E. Production I.E. Production I.E. Consumption I.E. Consumption I.E. Consumption I.E. Consumption I.E.		TOTAL WITH CHARLE	ron and Steel			Mild Steel		Pakistan	Scrap		Coak	•	•
The control of the	Year		J.E	Consumption	Production	I/E	Consumption	Steel Pro.	INE	Production	IÆ	S	sumption
1,12,						•	,	•		740		-	440
1836 632 632 2.435 713 4442 1.164 1.0 0 -1745 649 647 1.0 0 1.164 1.0 1.175 1.175 444 657 0 0 0 0 0 0 0 0 0	1983/84	3 2	88	1,237	प्रु	468	1,122		CII.	} ;		•	124
1835 672 2445 731 440 1121 1151 417 610 0 0 0 0 0 0 0 0 0	1984/85	718	-585	1,303	718	-442	1,160	0	-143	451		-	100
1,995 884 2817 782 440 1,222 1,151 444 657 0 9.9 1,121 26.7 1,121 26.7 1.3 6.7 6.5 6.6 6.5 6.5 6.5 6.5 6.5 1,442 7.55 2.197 2.188 9.0 444 1,354 1,244 1.67 6.9 6.7 6.0 9.9 2,091 7.77 2.888 9.0 444 1,354 1,244 1.67 6.9 6.7 6.0 9.9 2,221 6.67 2.918 1,005 4.99 1,442 1,244 1,67 6.9 7.5 6.0 6.0 2,236 7.52 3,134 1,105 3.95 1,442 1,244 1,252 3.96 1,544 1,27 3.95 1,442 1,27 3.95 1,442 1,27 3.95 1,442 1,27 3.95 1,442 1,27 3.95 1,442 1,27 3.95 1,442 1,27 3.95 1,442 1,27 3.95 1,442 1,27 3.95 1,442 1,244 1,27 1,244 3.95 1,448 3.96 1,444 3.96	1085/86	1 833	-602	2.435	731	-430	1,161	1,102	-172	610		0	610
TYP 33.4 1,137 2,173 7.3 4.5 1,324 1,204 66.6 64.2 0.0 9.9 1442 1,78 26.7 7.3 -0.7 4.1 1,354 1,181 -66.6 9.9 6.0 9.9 1442 1,78 2.0 -77 2.888 910 -444 1,354 1,181 -333 672 0 9.9 2.091 -87 2.03 1,005 -498 1,374 1,204 -167 699 0 2.160 -87 2.03 1,005 -498 1,442 1,224 -586 777 0 0 9 2.205 -87 2.03 1,005 -498 1,444 1,224 1,284 777 9 0 9 2.206 -88 2.73 4,0 2.0 2.6 2.7 2.6 3 777 9 0 9 2.206 -88 3.42 1,195	100000	1,033	700	2.817	787	4	1.222	1,151	4	637		0.	637
γγρ 33.4 17.5 1.6 7.3 0.7 4.2 4.5 5.5.1 9.9 0.0 9.9 1,442 .75 2,197 .7 2.0 .7 2.0 .7 .0 .0 9.9 .0 .0 9.9 .0 .0 9.9 .0	1900/00	CCC,I		10,1	298	455	1 322	1.204	999-	\$		0	3
1442 178	1987/88	2,0/1	-1,121	761,6							0.0		6.6
1,442 755 2.197 1,442 1,544 1,354 1,181 3,33 672 0 0 0 0 0 0 0 0 0	6th FYP	33.4		26.7	7.3	.0-	4.4	į	1.00		;		
Color		1,442	-755	2,197									
1,100					1	;		,	233			-	672
2160 -885 2745 956 -418 1,374 1,204 -167 509 0 2305 -987 -278 1,035 -499 1,442 1,224 -248 755 0 2305 -971 3,296 1,035 -399 1,448 1,223 -249 755 0 7P 43 -3.26 1,035 -399 1,448 1,224 756 0 40 7P 45 4,5 4,6 -2.6 2.7 2.0 1,5 0 40 0 40 7P 4,5 4,6 4,7 1,149 -2.6 2.7 2.0 1,5 40	1988/89	2,091	177-	2,868	910	4	1,354	1,181	555			۰ د	3 6
The color of the	1080/00	2.160	-585	2.745	956	418	1,374	1,204	-167			.	6
The color of the	1000/01	1566	189	2.918	1,003	-439	1,442	1,228	248			0	171
TYP 4.5 7.134 1,105 -389 1,504 1,277 -339 786 0 40 40 40 40 40 2.6 2.7 2.0 1.5 40 40 40 40 40 40 2.0 2.6 5.0 1.341 -357 40 40 40 40 40 2.0 2.6 5.0 1.04 40	1001/01	305 6	8	3.296	1,053	-395	1,448	1,252	-596			0	756
YP 45 44 45 40 2.0 2.6 5.0 1.5 40 <th< td=""><td>1000/00</td><td>2 382</td><td>752</td><td>3,134</td><td>1,105</td><td>-399</td><td>1,504</td><td>1,277</td><td>-353</td><td></td><td></td><td>٥</td><td></td></th<>	1000/00	2 382	752	3,134	1,105	-399	1,504	1,277	-353			٥	
TYP 4.5 4.4 4.5 4.0 -2.0 2.6 5.0 1.0 4.0 4.0 4.0 -2.0 3.1 1.540 1.341 1.0 4.0 4.0 -2.0 3.1 1.540 1.341 1.341 1.341 1.341 1.341 1.341 1.341 1.341 1.341 1.341 1.342 1.342 1.342 1.342 1.342 1.342 1.342 1.342 1.342 1.342 1.342 1.461 1.478 3.64 884 0 2.741 .855 3.737 1.246 .356 1.661 1.552 -304 884 0 0 2.784 .892 1.342 .361 1.703 .371 956 0	7th FVD			2.2				2.0	1.5	4.0	0.0		0
YP 4.5 4.0 -2.0 2.6 5.0 1.37 4.0 4.0 4.0 2.0 2.6 5.0 1.37 4.0 4.0 4.0 2.0 4.0 </td <td></td> <td>}</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>. 1</td> <td>•</td> <td></td> <td></td> <td></td>		}		-					. 1	•			
2490 -785 3,275 1,149 -391 1,540 1,341 -357 817 0 2603 -819 3,422 1,195 -383 1,578 1,408 -364 884 0 2,674 -825 3,776 1,243 -366 1,661 1,478 -367 920 0 2,974 -931 3,506 1,344 -361 1,705 1,678 -367 920 0 7P 4,7 1,243 -366 1,703 -371 956 0 3,906 1,344 -361 1,703 -378 1,042 0 3,115 -1,064 4,771 1,412 -366 1,788 1,703 -378 1,042 0 3,262 -1,209 4,771 1,482 -332 1,815 1,780 -386 1,136 0 3,78 -1,542 5,19 1,634 -306 1,940 1,944 -402 1,34	S# FVP	4.5	4.4	4.5	0.4	-2.0							
2,663 -819 3,422 1,195 -383 1,578 1,408 -360 850 0 2,643 -855 3,576 1,243 -376 1,619 1,478 -364 850 0 2,945 -852 3,576 1,243 -368 1,661 1,778 -364 820 0 2,945 -891 3,576 1,243 -368 1,661 1,703 -371 920 0 2,974 -991 3,175 1,064 4,179 1,422 -4,0 -4,0 -4,179 1,703 -378 1,042 0 9,0 3,115 -1,064 4,471 1,482 -33 1,815 1,780 -386 1,136 0 9,0 3,16 -1,368 4,774 1,482 -319 1,815 1,780 -386 1,136 0 1,346 0 1,346 -346 1,346 1,346 -346 1,346 1,346 1,346 1,346	1002/04	2 490				-391	1,540	1,341	-357	817		0	817
2771 -855 3,576 1,246 -376 1,619 1,478 -364 884 0 2,845 -892 3,777 1,233 -368 1,661 1,478 -367 920 0 2,845 -892 3,777 1,234 -36 1,661 1,732 -307 920 0 2,845 -892 3,737 -1,064 -4,179 1,412 -40 3.4 4.5 2.0 9.0 9.0 3,115 -1,064 -4,179 1,412 -346 1,758 1,739 -378 1,042 0 9.0 3,115 -1,209 4,471 1,412 -346 1,758 1,760 -396 1,940 1,940 -378 1,136 0 3,46 -1,368 4,771 1,482 -394 1,780 -386 1,136 0 3,48 -1,348 4,784 1,542 -306 1,940 1,941 40.0 1,941 1,471	1004/05	2,603	-819	•	1,195	-383	1,578	1,408	-360			0	88
2,721 302 3,77 1,293 -368 1,661 1,552 -367 920 0 2,974 -931 3,906 1,344 -361 1,703 1,630 -371 956 0 7P 4,77 12,9 7.0 -4.0 -4.0 3.4 4.5 2.0 9.0 9.0 3,115 -1,064 4,179 1,412 -346 1,758 1,703 -378 1,042 0 9.0 3,115 -1,064 4,179 1,412 -346 1,758 1,780 -386 1,136 0 3,416 -1,209 4,784 1,536 -319 1,875 1,860 -394 1,238 0 3,578 -1,542 5,119 1,634 -306 1,940 -402 1,340 0 3,747 -1,731 5,478 1,716 -294 2,010 2,031 -410 1,471 0 4,009 -1,797 5,806 1,81	1996/93	2001	70		1 243	376	1.619	1,478	-36¢			0	2
YP 4.7 12.9 7.0 5.0 4.0 3.4 4.5 1.703 1.738 1.738 1.738 1.738 1.738 1.738 1.738 1.738 1.703 3.74 1.942 0 9.0 <td>06/666</td> <td>17/7</td> <td>3 8</td> <td></td> <td>1 203</td> <td>368</td> <td>1661</td> <td>1.552</td> <td>-367</td> <td></td> <td></td> <td>0</td> <td>920</td>	06/666	17/7	3 8		1 203	368	1661	1.552	-367			0	920
Type 4.7 12.9 7.0 5.0 4.0 3.4 4.5 2.0 9.0 9.0 3.115 -1.064 4,179 1,412 -346 1,758 1,780 -378 1,042 0 9.0 3.262 -1.064 4,179 1,412 -346 1,758 1,780 -386 1,1942 0 9.0 3.416 -1.209 4,471 1,482 -332 1,815 1,780 -394 1,238 0 9.0 3.416 -1.209 4,774 1,482 -332 1,875 1,860 -394 1,238 0 9.0 3,416 -1,542 5,478 1,716 -294 2,010 2,031 -410 1,471 0 3,747 -1,731 5,478 1,716 -5.0 4.7 3.0 7.0 7.0 4,00 -1,797 5,806 1,819 -2.0 2,098 2,092 -422 1,574 0 4,590	1996/9/	2,043	720-	(1,1,1)			1 206	1 530	37.1	956		C	986
YP 4.7 12.9 7.0 5.0 -4.0 3.4 4.5 2.0 9.0 <th>1997/98</th> <th>2,974</th> <th>-931</th> <th>3,906</th> <th>1,344</th> <th>105</th> <th>1,705</th> <th>7,000</th> <th></th> <th></th> <th></th> <th>,</th> <th></th>	1997/98	2,974	-931	3,906	1,344	105	1,705	7,000				,	
TYP 4,1 1,24 7,0 3,14 1,24 4,179 1,412 3,46 1,758 1,703 -378 1,042 0 3,262 -1,204 4,771 1,482 -332 1,815 1,780 -386 1,136 0 3,416 -1,368 4,784 1,556 -319 1,875 1,860 -394 1,238 0 3,578 -1,542 5,119 1,634 -306 1,940 -402 1,336 0 3,747 -1,731 5,478 1,716 -294 2,010 2,031 -410 1,471 0 4,009 -1,737 5,806 1,819 -20 4,7 3.0 3.0 7.0 7.0 4,290 -1,865 6,155 1,928 -265 2,195 2,155 -422 1,574 0 4,590 -1,994 -5.04 2,04 2,406 2,246 2,219 -422 1,574 0 4,590		•	ć	č	C V	0.4	44	4 5	2.0	0.6		•	0.6
3,115 1,094 4,177 1,712 332 1,136 1,368 1,136 0 3,416 1,368 4,784 1,556 319 1,875 1,860 -394 1,238 0 3,578 1,342 5,119 1,634 -306 1,940 -402 1,336 0 3,578 1,542 5,119 1,634 -306 1,940 -1,94 -402 1,336 0 3,74 -1,731 5,478 1,716 -294 2,010 2,031 -410 1,471 0 4,009 -1,737 5,806 1,819 -20 4,7 3.0 3.0 7.0 7.0 4,009 -1,797 5,806 1,819 -265 2,193 2,155 -435 1,574 0 4,590 -1,934 6,524 2,044 -252 2,195 2,186 -461 1,929 0 4,511 -2,075 7,364 6,915 2,266 2,206	WE FY P	4	14.9	?	à .			_					1,042
3.262 -1,209 4,471 1,556 -394 1,538 0 3,416 -1,348 4,784 1,546 -306 1,940 -394 1,238 0 3,778 1,542 5,119 1,634 -306 1,940 402 1,350 0 3,747 -1,731 5,478 1,716 -294 2,010 2,031 -410 1,471 0 4,009 -1,737 5,806 1,819 -204 2,092 -422 1,574 0 4,009 -1,797 5,806 1,819 -265 2,193 2,155 -435 1,685 0 4,590 -1,994 6,524 2,044 -256 2,195 -435 1,885 0 4,590 -1,994 -6,524 2,044 -265 2,296 2,219 -448 1,802 0 4,511 -2,044 6,915 2,166 -246 2,406 2,286 -461 1,929 0	1998/99	3,115	\$ 55°			200	2181	780	386			0	1,136
3,416 1,568 4,784 1,520 1,544 402 1,350 0 3,578 1,542 5,119 1,634 3.0 1,944 402 1,350 0 3,578 1,542 5,119 1,716 2,041 402 1,370 0 4,009 1,731 5,478 1,716 2,94 2,098 2,092 412 1,574 0 4,009 1,865 6,155 1,928 2,652 2,193 2,155 435 1,685 0 4,590 1,394 6,524 2,044 2,25 2,195 2,186 461 1,929 0 4,511 2,004 6,915 2,166 2,246 2,355 4,15 2,064 0	1999/00	3,262	-1.209			3.00	579 I	1.860	786-				1,238
3.578 1,542 3.119 1,034 -300 1,770 2,010 2,031 -410 1,471 0 7.0 3.7 6.0 6.0 -5.0 4.7 3.0 7.0 7.0 4,009 -1,797 5,806 1,819 -279 2,098 2,092 -422 1,574 0 4,290 -1,865 6,155 1,928 -265 2,195 2,155 -435 1,685 0 4,590 -1,934 6,524 2,044 -352 2,296 2,219 -448 1,802 0 4,590 -1,934 6,915 2,166 -240 2,286 -461 1,929 0 4,911 -2,004 6,915 2,296 -228 2,524 2,3355 -475 2,064 0	2000/01	3,416	1.358			500	1.040	1.044	403		•	0	1,350
3,747 1,731 5,478 1,716 -294 2,010 2,031 -410 1,716 -7.0 7.0	2001/02	3,578	-1,542	5,119		000	2,1						1.471
FYP 7.0 3.7 6.0 6.0 -5.0 4.7 3.0 3.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7	2002/03	3,747	-1,731	5,478		27	2,010	7,031	OT+		•	>	*,**
FYP 7.0 3.7 6.0 6.0 6.0 7.3.7 4.7 7.008 7.098 7.092 7.3.4 7.2 1.574 0 7.008 7.009 1.865 1.851 1.928 7.265 2.193 2.155 4.35 1.685 0 7.390 1.394 6.524 2.044 7.252 2.296 2.219 4.48 1.802 0 7.395 4.511 7.004 6.915 2.166 7.208 2.406 2.286 4.61 1.929 0 7.355 2.075 7.330 2.296 7.228 2.524 2.355 4.75 2.064 0					((ţ	ć	<u> </u>	61			7.0
4,009 -1,797 5,806 1,819 -279 2,098 2,092 424 1,574 0 4,290 -1,865 6,155 1,928 -265 2,193 2,155 -435 1,685 0 4,590 -1,934 6,524 2,044 -252 2,296 2,119 -448 1,802 0 4,511 -2,004 6,915 2,166 -240 2,406 2,286 -461 1,929 0 5,255 -2,075 7,330 2,296 -228 2,524 2,335 -475 2,064 0	10th FYP	7.0	3.7		9.0			3.0	?	?			1574
4,290 -1,865 6,155 1,928 -265 2,195 2,155 -435 1,685 0 4,590 -1,934 6,524 2,044 -352 2,296 2,219 -448 1,802 0 4,511 -2,004 6,915 2,166 -240 2,406 2,286 -461 1,929 0 5,255 -2,075 7,330 2,296 -228 2,524 2,355 -475 2,064 0	2003/04	4,009	1,797	5,806		279	2,098	2,092				> <	1,0,1
4,590 -1,934 6,524 2,044 .252 2,296 2,219 -448 1,802 0 4,911 -2,004 6,915 2,166 -240 2,406 2,286 -461 1,929 0 5,255 -2,075 7,330 2,296 -228 2,524 2,355 -475 2,064 0	2004/05	4,290	-1,865	. :		265	2,193	2,155				٥	C90'T
4,911 -2,004 6,915 2,166 -240 2,406 2,286 -461 1,929 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2005/06	4.590	1.934			-252	2,296	2,219				0	1,802
5,255 -2,075 7,330 2,296 -228 2,524 2,355 -475 2,064 0	2005	4 011	2004			-240	2,406	2,286			٠	•	1,929
	20007	2002	300.5			-228	2,524	2,355				0	2,064 4
	200//002	5,433											

(1) Economic Survey 1993/94, Economic Advisor's Wing, Fin

THE Shidy Team

Appendix Table 2.2.4.35 Projection of Production and Consumption of Crude Oil and Petroleum Products (000 tons)

	Crude Oil		Crude Oil			Crude Oil		Reflaing	Pet	Petroleum Products	9		
Year	Production	IÆ	Production	SE.	Production	IÆ	For Refinery	Capacity	Vol after process	<u>1</u>	Consumption	Transformation	Consumption
	(pdq)	(pdq)	(,000 Barrel)	(,000 Barrel)	(,000 tonne)	(,000 tonne)	(,000 tonne)	(Crude Oil ton)	(,000 tonne)	(,000 tonne)	(,000 tonne)		
ST. COLOR			Č	1000			970	902			900		8
19/8/2	1 0.101	14,041	0.440	/96'07	9 6	\oc. 0	500,4	3,000	4600	1	266.4		1,000
19/9/60	S/X	/8,043	000	707	£ (108,0	000			20.	070'5	7 6	
1980/81	9,737	82.430	100°C	30,108	-	¥ (15)	4,516			2	1000		
1981/82	10,838	89,740	3,956	32.755	ខ	438	4,925	2,000		1.58	40.0	ਜ਼	4,847
1982/83	12,981	85,460	4,738	31 193	989	4.185	4,820	2,000	4,260	-1,866	6,126	613	5,513
5th FYP	63	1,	S	7	6.3	7	4.4		1.11	7.4	5.2	-13.7	9.1
Vield (%)							806						
1983/84	13 378	099 680	4.883	31 00%	339	4 202	4 948	\$ 000	4352	-2.155	6.507	408	6009
1004/95	980 %	2000	600	30.027	-	4014	200	900		2.250	8000	345	
70400	000,04	CTOWN	440.4	100.00		900	1	300	,	200	2		
1985/30	39,310	66 745)	7. 3. 48.	167,67	28.1	066,0	# F			877	297'	3	cen',
1986/87	41,093	75,757	14,999	27,666	2,012	3,712	5,72	· .		-3.169	8,125		
1987/88	44,685	7,34	16,310	28,300	2,188	-3,797	5,985	900'9	5,671	-3.759	9,430	_	8,527
6th FYP	35.2	3.0	35.2	-30	35.2	30	6.4	. •	1.16	14.9	7.6	22.0	8 .7
Yield (%)							88%						
1988/80	AK 7K4	73 680	17 069	26.894	3 290	30.51	808	086.9	5.416	43	9.717	99	608
100000		13,400	000	20.00	25.5	1000	364.9	0000 Y	÷	4 530	10.00		
DENERGY	20,4/2	71,406	07C KT	00,07	(TO')	144.0	CITIO	0000		977	01,01		2,574
180061	2	77,200	23,485	28,178	3,151	3,780	6,931	2,000	:	4310	10.747		
1991/92	61,559	82,236	22,469	30,016	3,014	4,027	7,041	7,000		-5,275	11,635		
1992/93	986'65	80,567	21,895	29,407	7,937	3,945	6,882	7,000	6,180	-6,612	12,792	78.	12,011
7th FYP	6.4	13	6.4	2.3	6.4	2.3	3.9		3.4	11.4	7.1	5	7.3
Tield (%)							91%		1.10		9.1	90.0	
Ave. Yield (%)							806		1.12				
8th FYP	15.5	-13.1	15.5	13.1	15.5	-13.1	3.4		46	12.9	8.8	88	8 0.
1999/94	69,284	73,087	25,289	28,137	3,393	3,775	7,167	7,470	6,390	-7,416	13,807	7.85	13,050
1994/95	80,023	71,324	29,208	26 033	3,918	-3,493	7,411	7,470		-8,402	15,010		
96/5661	92,427	64,067	33,736	23 384	4 526	-3.137	7,663	7,640		-9,495	16,327		٠
1996/97	106,753	55,061	38,965	20,097	5,227	-2,696	7,924	7,940		-10,706	17.770		
1997/98	123,300	44,016	45,004	16,066	6,038	-2,155	8,193	9,540		-12,047	19,351	1,060	18,291
1				0.80		•					• \	t v	•
AL PAR	0.01	33.7	10.0	700	10.0	33.2	20.0		3.	8./-	9.7	9.7	
1996(95	1,55,030	KT'ca	200	10/ S	Z Z	OKT'C	702'6	U\$5,61		27.7	60,02	•	
1999/00	149,133	71,742	64.	33,460	906,	4,492	11,798			11.85	801,22		
2000/01	164,112	125,010	28 201	45,629	8,036	-6,121	14,157			-11,114	23,736	•	22,436
2001/02	180,523	166,423	65.891	60 745	88, 048,	-8,149	16,989	21,340		-10,276	25,422	1,393	24,030
2002/03	198,575	217,760	72,480	79,483	9,724	-10,663	20,387	21,340	18,176	-8,623	26,799		25,330
				,	1					;		,	;
JOSE FYP	8.0	7	8 :0	7	8.0	7	2.5		તં	10.1	S,	vri	ń
2003/04	214,461	212,283	78,278	7,	10,502	-10,395	20,896			-9,626	28,257		
2004/05	231,618	205,794	\$	75,115	11,342	-10,01-	21,419			-10,706	29,802		
2005/06	250,148	198,200	91,304	72,343	12,249	9,705	21,954			-11,866	31,439	1.72	29,717
2006/07	270.160	189,397	809.86	69 130	13 229	-9 274	22.503	23,200		-13,113	33,175		
2007/08	291,772	179,273	106,497	65,435	14,287	8,778	23,066	23,200		-14,452	35,016		
						•							
Note:	-				-					-			

(1) Economic Survey 1993/94, Economic Advisor's Wing, Financial Division (2) 8th Five Year Plan (3) IICA Study Team

Appendix Table 2.2.4.36 Projection of Production and Consumption of Crude Oil (000 tons)

169		-			;	Government	Corsonal
62/8261	. 189	203	235	2,224	15	533	3,891
1979/80	626	228	253	2,292	95	702	4,151
18/0861	517	261	173	2,487	183	629	4,300
78/1861	\$4	308	124	2,745	442	. 688	4,847
1982/83	594	391	191	2,890	754	723	5,513
Stb FYP	3.4	17.8	-9.0	6.8	166.3	7.9	9.1
	:			-			
1983/84	629	689	173	3,067	766	725	6,099
1984/85	748	814	218	3,240	\$	243	6,613
98/5861	800	945	243	3,410	1,004	653	7,055
1986/87	860	1,228	240	3,923	1,181	362	7,728
88//86	829	1,224	330	4,186	1,599	329	8.527
6th FYP	6.1	15.4	17.5	8.1	20.2	-17.9	8.7
68/886	971	1.290	293	4.353	1,822	328	9,057
U6/686	1 117	1 297	286	4 684	2,189	399	9.972
10/000	044	1 148	592	1841	2.434	328	096.6
1901/07	614	1 370	281	5.620	2.775	323	10.983
100000	163	1.480	187	201.9	3 158	77.	12,011
77475	10 4	7 5	\$ O	35 35	14.7	2.1	7.3
17.417/	- M	j	•	?	ì	•).
		-			-		
944 5470		4	, ¢	0	11.7	4 7	90
1003/04	640	25	207	259.9	7 537	346	13.050
923/24	£ ;	1,523	303	356.1	9 040	383	14 188
50,500	200	1.002	310	1.60	4401	30%	15.433
000000	100	100	310	109.8	4016	0.4	16797
16/9661	/33	1.727	210	170'0	OLCA	2 3	10,00
1997/98	764	1,889	326	9,396	5,491	474	18781
				ć	6	ç	
Marir	0.4	ų. 4	7,	0.00	2.0		10 677
56/8661	0 6	1,974	500	+C0'07	2000	77	20.00
00/6661	826	2,000	₹ ?	10,738	0,00	1 5	56,707
2000/01	%	8.1%	X	11,511	,,111 , 111	g (24,930
2001/02	& 4	2,253	356	12,317	7,751	459	24,030
2002/03	22	2,343	363	13,179	8,062	4. 4.	25,330
4	4	•	17		:		
10th FYP	3.0	4.0	2.0	7.0	4.0	0.7	5.5
2003/04	. 248	2,436	370	14,101	8,384	468	26,709
2004/05	77.6	2,534	. 378	15,089	8:719	473	28,169
2005/06	1,006	2,635	385	16,145	890'6	478	717,62
20/900	1,036	2,741	393	17,275	9,431	482	31,358
2007/08	1,067	2,850	401	18,484	808'6	487	33,098
) (),						4
Note							
(1) One torne of oil = 7.454 barrels	= 7.454 barrels	331					
	N. C.	P. J. San				4.	
		11.1 A 11.1					

(5) Residuals is assumed to be used by thermal power stations and for other purposes. Source:

(1) Economic Surrey 1993/94, Economic Advisor's Wing, Financial Division (2) 8th Five Year Plan
(3) JICA Study Team

Appendix Table 2.2.4.37 Projection of Production and Consumption of Gas (000 tons)

	Production	And the second					Consumption						
	Natural Gas	_			Natural Gas		House Hold	Commercial	Cement	Fertilizer	Power	Industry	Net Net
7.58	Production	_	Liconomon	rrocmenon	J/E	Consumbacon							Consumbation
	(mmcfd)	(mmcft)	(TOE)	(cn. m)									(mmcft)
1978/79	614	224.088	4.809	6,344		0 6,344	12,110	6,063	24.256	43,749	60,758	49,632	196,568
1979/80	712		5,578	7,358		0 7,358		6,543	25,738	46,315	80,431	\$2,671	227,981
1980/81	227			8,546		8,546		7,540	26,085	65,920	84,743	62,748	264,774
1981/82	892	1		9,216		0 9,216	ť.	8,337	26,319	77,273	82,087	67,471	285,524
1982/83	833	342,592	٠.	002'6		0 9,700	10	8,905	21,222	97,308	74,205	70,522	300,519
Sth FYP	11.2	11.2	11	11.2	0.0	11.2		10.1	-3.3	22.1	5.1	5.5	11.2
Share							9.4%	3.0%	7.1%	32.4%	24.7%	23.5%	100.0%
			1	(
1983/84	₹.			9,718	2	0 9,718		9,122	10,305		17,927	73,159	301,094
1984/85	166			10,300	1	0 10,300	1	9886	8,300		88,906	74,629	319,128
1985/86	5		002,5	10,897	:	0 10,897		676,6	587'/		103,232	768.4/	33/,619
1986/8/	117.1	405,463	47V.0	11,480		11,480	45,761	7,0/8	5,4%		143 750	78.741	355,009
130//00 645 EVD	7.410		2,470	705,41	•	700.71	-	307'01	3,204		163	10/0/	100,100
Share) }	}	3	} : :			12.2%	2.7%	1.4%	26.6%	36.9%	20.3%	100.0%
		at.			.**						:		
1988/89	1,334		9,670	12,757		0 12,757		10,829	5,255	104,394	142,064	81,421	395,241
1989/90	1,385	505,386	10,846	14,309		0 14,309	60,140	11,154	7,988	108,582	169,089	896'98	443,321
1990/91	1,453		11,385	15,019	y.	610,21 0	2 1	12,317	13,020	107,954	176,409	88,841	465,338
1991/92	1,520	554,731	11,905	15,706		0 15,706		13,057	11,761	101,493	193,893	95,661	486,606
1992/93	1,598		12,514	16,509		0 16,509		14,326	11,914	119,628	186,853	102,991	511,495
7th FYP	6.7	6.7	6.7	6.7	0.0	6.7	10.3	7.2	22.7	3.5	7.1	6.1	6.7
Share	· · · · · · · · · · · · · · · · · · ·			; ;		• .	14.8%	2.8%	2.3%	23.4%	36:5%	20.1%	100.0%
	· .				ć						(į	,
ATH CIRC	**	9.4	Y.4	4.4	0.0	9.4	11.3	0.0	n,	9.3	. 500	 	4.6
\$6666	07/T		13,950	10,046		1900 or 0		750'61	015,21	140.042	102,502	110,713	229,173
1001001	080 6	٠,	14,253	25,735		19,733		15,74		166.70	146 034	119,019	011,430
1996/97	7.785	1	17.898	73 617		73.517	1	17.413		170.731	377 578	13.75	2 E
1997/98	2.500		19 584	25 837		25.837	L	18 284	1	186,609	299 \$63	147.857	800 480
Share							16.2%	2.4%	2.0%	23.3%	37.3%	18.8%	100.09
							-	:			• :		
9th FYP	7.4	7	7.4	7.4	0.0	7.4	7	4.0	3.0	5.5	10.0	5.0	7.4
1998/99	2,694		21,103	27,841		27,841		19,015	15,662	196,873	329,520	155,250	862,576
1999/00	2,305		22,752	30,016		30,016		19,776	16,132	207,701	362,472	163,012	929,974
2000/01	3,133	_	24,543	32,378	-	0 32,378		20,567	16,616	219,125	398,719	171,163	1,003,159
2001/02	3,381	_	26,488	34,944		2 X X	194,667	21,390	17.114	231,176	438,591	179,721	1,082,659
2002/03	3,588	1,309,796	28,109	37,084		37,084		22,138	17,627	242,735	469,292	186,910	1,148,943
Share		-				: .	18.0%	2.0%	1.6%	21.4%	40.5%	16.6%	100.0%
10th FYP	6.2	6.2	6.2	6.2	0.0	6.2	. 0	٠ ٣	0.6	Ö	2.0	4.0	6.2
2003/04	3.800		36.836	39.363		3		27 913	18156	254 872	502 142	194.386	1 219 530
2004/05	4 044		31.676	41,789	•	0.71789		217.50	18.701	267.616	537 292	202,162	1.294.730
2006/05	V 00 V		303.00	74 3 23			264.043	24 646	20,001	200 000	200 000	210.740	27.4.70
2005/00	1677		26.00	24,5/3				35.55	707'61	200,200	5/4/5/2	250,640	1,3/4/2/
2000/07	700	•	27,073	/71'/4	- •	771'/4		23,404	17,040	300.708	013,140	223,030	1,400,124
Shore Shore	4	•	144,10	200,062			¥	1 7%	1.4%	30.7%	636,406 47 195	14.09	100.09
Cleary			:				2007	2	1.4 W	2 4 7	~ ***	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	2000

(1) One cubic meter of natural gas = 35.32 cu. ft. (2) Volume of production is equal to (Net Consumption x 1.14) taking into account of waste and loss. Source:

(1) Economic Surrey 1993/94, Economic Advisor's Wing, Financial Division
 (2) 8th Five Year Plan
 (3) IICA Study Team

Appendix Table 2.2.4.38 Projection of Production and Consumption of Coal (000 tons)

1.897 98 1.657 26 19 1.512 21 98 98 1.512	Vest	Production	Coal I/E	Consumption	House Hold	Power	Brick Kiln	Others Government	Steel Mil	Total Consumption
1.257 1.257 1.257 2.5 2.8 1.218 1.2 9 9 1.257 1.	7	7								
1,550 3.50	1978/79	1.287	0	1,287	53	28	1.218	12		1,287
1,577 -312 1,889 8 30 1,518 21 312 3	1979/80	1.569	86-	1,667	26	19	1,512	12		1.667
1,750 .540 .220 .220 .23 .1,715 .10 .540 .10 1,80	1980/81	1.577	-312	1,889	∞	30	1,518	. 21		***
The color of the	1061/60	1750	07	2.290	23	2	1,715	£ ∴	₹ •	
TP £77 744 134 £67 442 £64 9-6 744 1344 TP 1188 -401 1368 -401 1266 1248 1448 1344 1344 1344 1344 1348 1344 1348	1087/83	1 609	-520	2,129	22	33	1,546	∞	520	2,129
1,869	24P EVD		٠.	13.4	6.7	4.2	6.1	9.6	74.4	13.4
1,869	Share	ì			1.0%	1.6%	72.6%	. 0.4%	24.4%	100.0%
1869 -491 2360 22 24 1810 15 716 258 258 2475 258 248 1810 158 248 258 248 258 248 258 248 258 248 258 248 258 248 2				ě	;			•	i	0366
2.238 716 2.954 16 32 2.175 15 2.94 16 32 2.175 15 2.18 2.19 2.18 11 82 2.18 14 82 2.18 11 82 2.18 14 823 111 82 2.21 15 7 4 853 111 82 2.21 15 7 4 853 111 82 1100 1000 </td <td>1983/84</td> <td>1,869</td> <td>-491</td> <td>2,360</td> <td>22</td> <td>24</td> <td>1,810</td> <td>בן י</td> <td>144</td> <td></td>	1983/84	1,869	-491	2,360	22	24	1,810	בן י	144	
1,2,00 352 3,054 14 25 2,211 14 5 11 11 15 15 11 11	1984/85	2,238	-716	2,954	J6	32	2,175	21	116	
The color of the	1985/86	2,202	-823	3,054	4	56	2,148	71	827	
TP 10.1 14.8 11.1 2.4 3.3 1 10.6 1.5 4 2.74 1.48 11.1 2.4 3.5 1.6 1.5 4 2.74 1.15 4 2.74 0.1% 2.5% 1.0<	28/9861	2,261	-919	3,180	9	19	2,221	5	919	
Typ 10.1 14.8 11.1 2.4 3.3 10.6 -15.5 14.8 11.1 1.24 3.3 10.6 -15.5 14.8 11.1 2.756 -1.004 3.54 -1.004 3.54 -1.004 3.54 -1.004 3.596 2 896 2.74.5 -1.08 4,043 7 4.0 3.056 0 917 1000 917 917 900 917 917 900 917 917 900 917 917 918 3.056 0 917 917 917 918 3.056 0 917 910 917 917 917 918 917	88/286	2.749	-853	3,602	20	21	2,704	4		3,602
Column	6th FYP			11.1	-2.4	-3.3	10.6	-25.5	14.8	11.1
1.55	Share				99.0	%9 .0	75.1%	0.1%	23.7%	100.0%
2.5.6 -1.004 3.540 15 41 2.586 2 896 3.044 -1.296 4,045 7 4 45 3,056 0 917 3.044 -1.296 4,045 7 4 45 3,056 0 917 3.044 -1.045 4,616 7 4 4 3,580 0 917 1.045 -1.045 4,511 3 4 7 4,467 0,07 39 91 1.0 4,511 -33.1 3.4 4 3,580 0 4 100 1.0 4,511 -3.4 4,57 1.1% 1.1% 1.134 100 4 113.2 1.0 4,51 -2.0 12.0 3.4 0 4.0% 113.4 100 4 113.4 1.0 4,51 -2.0 12.0 3.4 0 4.0% 113.4 113.4 113.4 113.4 113.4 113.4 <td></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td>ż</td> <td></td> <td></td> <td></td>			· · · · · · · · · · · · · · · · · · ·				ż			
2745 -1,298 4,045 7 40 3,096 0 900 3,054 -918 3,972 4 4 3,096 0 900 3,054 -918 3,972 4,618 7 44 3,096 0 900 3,054 -1,045 4,311 3 47 44 3,056 0 907 1,044 4,311 3 47 47 47 47 47 47 47 400 900 900 Tr 1,104 4,311 3 47 47 47 47 400 40 13.4 1,104 4,357 -1,04 4,521 -20 100 40 40 13.4 4,357 -48 4,357 -2,43 4,657 0,07 40 1,174 4,345 -1,104 3,45 0,07 0,07 1,20 3,50 0,07	988/80	2.536	-1.004	3,540	15	41	2,586	7	988	
3,054 -918 3,972 4 25 3,026 0 917 3,627 -989 4,616 7 44 3,580 0 985 3,627 -1,089 4,616 7 44 3,580 0 0 1,044 3,627 -1,089 4,616 7 44 3,580 0 0 4,27 10	06/680	2.745	1 298	4,043	7	4	3,096			
3.657 3.850 4.616 7 444 3.580 0 985 3.266 -1.045 4.311 3.4 4.7 5.117 0 1.044 18.5 1.0 4.51 -334 3.4 7.46% 0.0% 2.42% 1.000 18.5 1.1 13.5 -200 120.0 3.4 0.0% 2.42% 1.000 18.5 1.7 -749 4.521 -200 120.0 3.45 0.0% 0 1.129 18.5 -203 6.015 1.134 0.0% 1.83% 0.0% 0 1.120 18.5 -203 6.015 1.101 3.480 0 1.120 18.5 -203 6.015 1.101 3.480 0 1.120 18.6 -203 6.015 1.130 3.450 0 1.120 18.6 -203 6.015 1.134 1.136 1.134 1.136 1.134 18.6 -203 6.015 1.134 1.136 1.134 1.134 1.136 18.6 -203 6.015 1.134 1.136 1.134 1.13	000/00	20.6	816.	3.972	4	25	3,026		716	
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TP 6.5 1.0 5.1 -33.1 3.5 5.6 0.0 3.9 5.1 re 6.5 1.0 5.1 1.1 7.46% 0.0% 2.4.2% 1.00 TP 15.5 1.7 1.3.5 2.0 1.20 3.3.9 0.0 4.0 1.3.6 TP 3.772 -749 4.521 2.0 1.00 3.3 0.0 4.0 1.3.6 4.357 -48 4.805 2 2.27 3.446 0.0 4.0 1.129 4.357 -448 4.805 2 2.27 3.446 0.0 4.0 1.129 re 5.013 -801 7.514 1 1.0101 3.657 0.0 4.0 1.129 re 6.713 -801 7.514 0.0 3.5 0.0 4.3 9.2 re 1.384 1.0 1.2 2.0 3.5 0.0 4.5 9.2 re <	760,660	3.000	1 046	4311	6	47	3.217		1,044	4,311
TP 15.5 1.7 13.5 -2.0 120.0 3.5 0.0 4.0 13.5 1000 TP 15.5 1.7 13.5 -2.0 120.0 3.5 0.0 4.0 13.5 13.5 4,3.77 -448	27.193	3,400	6.1		.131	ļ	5.6	0.0	3.9	5.1
YP 15.5 17 13.5 -20.0 120.0 3.5 0.0 4.0 13.6 YP 15.5 177 -749 4,521 2 103 3.330 0.0 4.0 11.74 4,357 -448 4,825 2 277 3,446 0 1,174 5,032 -201 5,243 2 200 3,567 0 1,174 6,713 -801 7,514 1 1,101 3,567 0 1,174 re 6,713 -801 7,514 1 2,402 61.47 0 1,174 re 6,713 -801 7,514 1 2,007 3,527 0 1,174 re 7,1384 0,07 4,095 0,07 4,134 1 3,488 4,093 0 1,276 9,2 re 10,812 1,138 1 2,007 3,488 4,093 0 1,276 1,394 8,229 <td>AL A DI</td> <td>C.S</td> <td>P: T</td> <td>1</td> <td>0.1%</td> <td>1.1%</td> <td>74.6%</td> <td>0.0%</td> <td>24.2%</td> <td>100.0%</td>	AL A DI	C.S	P: T	1	0.1%	1.1%	74.6%	0.0%	24.2%	100.0%
TP 15.5 1.7 13.5 -20.0 120.0 3.5 0.0 4.0 13.5 3.772 -749 4,521 -20.0 1.00 3.446 0 1,1096 1.129 4,337 -448 4,835 2 2.07 3,446 0 1,1129 5,032 -203 6,015 1 1 1,101 3,692 0 1,174 re 6,713 -801 7,514 1 2,472 3,692 0 1,174 re 6,713 -801 7,514 1 2,472 3,692 0 1,174 re 6,713 -801 7,514 1 2,472 3,692 0 4,59 0 1,176 re 7,384 -7,54 8,138 1 2,907 3,955 0 4,55 1,276 1,276 8,925 -1,036 10,865 1 2,907 4,095 0 1,456 1,394 <	Share				2					
7.77 7.49 4,521 2 103 3,330 0 1,086 4,357 448 4,805 2 227 3,446 0 1,1129 5,032 211 5,243 2 227 3,446 0 1,1129 5,015 1 1,101 3,622 0 1,1214 6,713 801 7,514 1 2,422 3,821 0 1,120 7,384 7,54 8,138 1 2,97 3,955 0 1,394 8,133 7,80	OAL DWD	3.5.5		2	-20.0	120.0	3.5	0.0	4.0	13.5
4377 448 4,805 2 227 3,446 0 1,174 5,022 211 5,243 2 500 3,567 0 1,174 5,022 211 5,243 2 500 3,567 0 1,174 6,713 -801 7,514 1 1,101 3,657 0 1,121 re 6,713 -801 7,514 1 2,407 0,0% 0,0% 4,53 9,2 re 100 0 7 9,2 4,0 2,00 3,55 0 4,5 9,2 re 100 0 7,3 4,03 0,0% 4,53 0 1,276 9,2 re 10,85 1 2,907 3,438 4,093 0 1,354 1,000 4,55 9,2 re 9,817 1,10,85 1 2,907 4,036 0 1,276 1,334 1,000 4,186 4,236 0 1,5	313 T 115	277		4 531	7	103	3,330		1,086	4,521
5,002 2,11 5,243 2 500 3,567 0 1,174 5,812 -203 6,015 1 1,101 3,652 0 1,221 6,713 -203 6,015 1 1,101 3,652 0 1,221 re 6,713 -801 7,514 1 2,007 3,823 0.08 4,5 9.2 re 7,384 -754 8,138 1 2,907 3,955 0.0 4,5 9.2 Rit 3,284 4,034 4,035 0 1,376 1,334 8,123 -793 8,916 1 2,907 3,955 0.0 4,5 9.2 8,123 -92 -811 1 2,907 3,955 0 1,376 1,334 8,935 -881 9,817 1 4,136 4,236 0 1,456 9,829 -1,036 1,586 1 4,534 0,0% 1,558 1,568 </td <td>993/94</td> <td>711,0</td> <td>448</td> <td>1984</td> <td></td> <td>227</td> <td>3,446</td> <td></td> <td>7 1,129</td> <td></td>	993/94	711,0	448	1984		227	3,446		7 1,129	
5,812 -203 6,015 1,101 3,692 0 1,221 re 6,713 -801 7,514 1 2,422 3,821 0 1,270 re 6,713 -801 7,514 1 2,007 3,825 0.0 4,5 9,2 YP 10.0 0.7 9,2 4,0 20.0 3,5 0.0 4,5 9,2 YP 10.0 0.7 9,2 4,0 20.0 3,5 0.0 4,5 9,2 RP 1,234 -7,3 8,138 1 2,907 3,955 0.0 4,5 9,2 RP 1,384 1,6 1,386 1 4,186 4,236 0 1,346 1,500 PP 7,4 11,586 1 4,186 4,033 0,0% 1,436 1,522 1,500 1,558 1,522 1,524 1,500 1,546 1,526 1,526 1,546 1,526 1,549 1,549	204.93	, CC, 4	-211	5 243	. 7	200	3,567		1,174	5,243
FYP 10.0 0.7 9.2 4.0 2.907 3.555 0.0 4.5 9.2 T/3 4.0 2.0 3.4 0.0% 1.83% 61.4% 0.0% 20.3% 1000 T/3 0.0 4.5 0.0 4.5 0.0 4.5 9.2 T/3 0.0 3.4 0.0 3.5 0.0 4.5 9.2 T/3 1.24 0.0 3.4 0.0 4.5 0.0 1.276 9.2 R/123 1.0 0.0 3.4 0.0 4.5 0.0 1.276 9.2 R/123 1.0 1.3 4.09 3.4 4.093 0.0 1.276 9.2 R/103 1.0 1.3 4.09 1.4 0.0 1.276 9.2 R/103 1.0 1.0 4.2 4.09 0.0 1.24 1.0 R/104 1.0 1.0 3.5 4.0 1.2 1.0 1.2 <td>006/07</td> <td>5.812</td> <td>-203</td> <td>6.015</td> <td>-</td> <td>1,101</td> <td>3,692</td> <td></td> <td>1,221</td> <td></td>	006/07	5.812	-203	6.015	-	1,101	3,692		1,221	
re 0.0% 18.3% 61.4% 0.0% 20.3% 100.0 YP 10.0 0.7 9.2 4.0 2.0 3.5 0.0 4.5 9.2 3.13 7.384 754 8.138 1 2.907 3.555 0.0 4.5 9.2 8.123 7.73 8.916 1 3.488 4.093 0 1.276 9.2 8.935 -881 9.817 1 4.186 4.236 0 1.376 9.2 9.829 -1.036 10.865 1 5.023 4.384 0 1.346 100.0 9.829 -1.036 10.865 1 5.023 4.384 0 1.348 100.0 10.812 -7.74 11.586 1 5.023 4.637 0 1.548 100.0 FTP 7.5 -7.3 6.8 2.0 1.643 0 1.548 1.00.0 11,622 -7.73 6.8 2.0	80/200	FIL 9	-801	7,514	-	2,422	3,821) 1,270	7,514
TP 10.0 0.7 3.5 0.0 4.5 9.2 T/384 -754 8,138 1 2,907 3.55 0 1,276 9.2 8,123 -793 8,916 1 3,488 4,035 0 1,276 1,334 8,935 -881 9,817 1 4,186 4,236 0 1,334 9,829 -1,036 10,865 1 5,023 4,384 0 1,456 9,829 -1,036 10,865 1 5,023 4,384 0 1,456 10,812 -774 11,586 1 5,023 4,384 0,0% 13,4% 100.0 FTP 7.5 -7.73 6.8 2.0 10.0 3.5 0.0 1,588 11,622 -7.73 6.8 2.0 10.0 3.5 0.0 1,568 11,624 -6.68 13,462 0.0 3.6 1,653 1,7354 5,101 0 1,764<	Share				0.0%	18.3%	61.4%	0.0%	20.3%	100.0%
TP 10.0 0.7 9.2 4.0 20.0 3.5 0.0 4.5 9.2 7.384 -754 8.138 1 2.907 3.955 0 1.276 9.2 8.935 -881 9.816 1 4.86 4.095 0 1.346 1.346 9.2 1.346 0 1.346 1.346 1.346 1.346 1.346 0 1.456 0 1.456										
7,384 -754 8,138 1 2,907 3,955 0 1,276 8,123 -793 8,916 1 3,488 4,035 0 1,334 8,935 -881 9,817 1 4,865 0 1,334 9,829 -1,036 10,865 1 5,523 4,334 0 1,456 10,812 -774 11,586 0.0% 46.2% 40.4% 0 1,522 100.0 11,622 -721 6.8 2.0 10.0 3.5 0.0 3.0 6.8 11,622 -721 12,49 6.68 4,861 0 1,558 1.658 11,622 -721 12,49 6.68 4,861 0 1,615 1.668 12,494 -6.68 13,162 1,558 5,207 0 1,615 1.663 14,439 -572 15,011 1 8,898 5,307 0 1,713 18 -522 <	9th FVP	10.0	0.7	9.7	4.0	20.0	3.5	0.0	4.5	9.2
8,123 -793 8,916 1 3,488 4,093 0 1,334 8,935 -881 9,817 1 4,186 4,256 0 1,394 9,829 -1,036 10,865 1 5,023 4,384 0 1,456 10,812 -774 11,586 1 5,525 4,538 0 1,522 11,622 -7.3 6,8 2.0 10.0 3.5 0.0 3.0 6,8 11,622 -7.3 1,13,43 1,60,7 4,697 0 1,568 13,494 -6,68 13,162 1 6,685 4,861 0 1,663 13,431 -6,18 14,049 1 7,354 5,031 0 1,663 14,439 -572 15,011 1 8,089 5,207 0 1,713 14,439 -572 16,053 1 8,898 5,390 0 1,764 100.0	66/866	7.384	487-	8,138	Τ.	2,907	3,955	•	1,276	8,138
8,935 -881 9,817 1 4,186 4,236 0 1,334 9,829 -1,036 10,865 1 5,023 4,384 0 1,456 10,812 -774 11,586 1 5,023 4,384 0 1,452 11,622 -773 6,88 2.0 10.0 3.5 0.0% 13,4% 11,622 -73 6,88 2.0 10.0 3.6 1,568 11,622 -73 13,162 1 6,687 4,697 0 1,568 11,624 -73 -6,68 13,162 1 7,354 5,031 0 1,615 13,439 -572 15,011 1 8,089 5,207 0 1,713 14,439 -572 15,011 1 8,089 5,397 0 1,764 100.0 16,531 1,5521 25.207 0 35.39% 34.7% 0.0% 11,744 100.0	00/666	8 123	-793	8,916	-	3,488			1,334	
9,829 -1,036 10,865 1 5,023 4,384 0 1,456 10,812 -774 11,586 1 5,525 4,38 0 1,522 100.0 FTP 7.5 -7.3 6.8 2.0 10.0 3.5 0.0 3.0 6.8 FTP 7.5 -7.3 12,434 1 6,077 4,697 0 1,568 6.8 11,622 -7.21 12,494 -668 13,162 1 6,685 4,861 0 1,615 12,494 -668 14,049 1 7,354 5,031 0 1,615 14,439 -572 15,011 1 8,089 5,207 0 1,713 18,521 -552 16,035 1 8,898 5,397 0,0% 11,764 100,0	10/000	8 935	-881	9.817	1	4,186			1,394	
FYP 7.5 -7.74 11,586 1 5,525 4,538 0 1,522 100.0 1,522 100.0 1,522 100.0 1,522 100.0 1,522 100.0 1,522 100.0 1,522 100.0 1,522 100.0 1,522 100.0 1,522 10.0 1,522 10.0 1,523 11,523 11,523 11,523 11,523 11,523 11,523 11,523 11,523 11,523 11,523 11,523 11,523 11,534 5,130 0 1,543 11,543 11,523 11,5	0001/03	0.839	1036	10.865		5,023			1.456	. :
FYP 7.5 -7.3 6.8 2.0 10.0 3.5 0.0 3.0 6.8 13.4% 100.0 14.439	20/100	10.817	774	11 586	-	5.525	4,538		1,522	
FTP 7.5 -7.3 6.8 2.0 10.0 3.5 0.0 2.0 5.8 6.8 11,622 -7.21 12,343 1 6,677 4,697 0 1,568 13,162 1 1,494 -668 13,162 1 1,494 1 7,354 5,031 0 1,615 13,431 -618 14,049 1 7,354 5,031 0 1,663 13,431 -572 15,011 1 8,089 5,207 0 1,713 15,521 -532 16,053 1 8,898 5,390 0 0 1,764 100.0	coordo	70,01		201		46.2%	40.4%	0.0%	13.4%	100.0%
FYP 7.5 -7.3 6.8 2.0 10.0 3.5 0.0 3.0 6.8 6.8 11,622 -721 12,343 1 6,077 4,697 0 1,568 0.1 16,05	Spare				2	}				
11,622 -721 12,343 1 6,077 4,697 0 1,568 12,494 -668 13,162 1 6,685 4,861 0 1,615 13,431 -618 14,049 1 7,354 5,031 0 1,663 14,439 -572 15,011 1 8,089 5,207 0 1,74 15,521 -532 16,033 1 8,898 5,390 0 1,764 100.0	1044	**	.73	æ	2.0	10.0	3.5	0.0	3.0	89
12,994 -668 13,162 1 6,685 4,861 0 1,615 13,431 -618 14,049 1 7,354 5,031 0 1,663 14,439 -572 15,011 1 8,089 5,207 0 1,713 15,521 -532 16,053 1 8,898 5,390 0 1,764 100,0	TI J DOI 1	11 633		17 343		6.077	4,697		1,568	12,343
13,431 -618 14,049 1 7,354 5,031 0 1,663	2003/04	13,042	899	CALEI	-	6.685	. · . ·		0 1,615	13,162
15,521 -572 15,011 1 8,898 5,207 0 1,713 15,521 -532 16,053 1 8,898 5,390 0 1,764 100.0	2004/03	*C+'77	900	14 O40		7357			1.663	14,049
15,521 -532 16,053 1 8,898 5,390 0 1,764 100.	2002/06	15,431	-010	15.015	1	080 8	5.007		1 713	
15,541 -354 10,005 1,005 34,7% 0,0% 11,4% 100.	2009/07	14,439	212	110,51		608.9	066.8		1767	
CONTRACTOR OF THE CONTRACTOR O	2007/08	175'61	700-	ccn'or		62 09.	24.79	0.0%	11.4%	100
	Share				מיחים	55.7.E	2	3	2 1 1 4	

Economic Survey 1993/94, Economic Advisor's Wing, Financial Division

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Appendix Table 2.2.4.39 Projection of Production and Consumption of Limestone (000 tons)

	Limestone		
		Limestone	
Year	Production	I/E	Consumption
1978/79	3,298	0	3,298
1979/80	2,798	ŏ	2,798
1980/81	3,464	ů.	3,464
1981/82	3,682	. o	3,682
1982/83	4,232	Ŏ	4,232
5th FYP	6.4	0.0	6.4
1983/84	4,696	0	4,696
1984/85	4,634	0	4,634
1985/86	6,313	0	6,313
1986/87	6,885	0	6,885
1987/88	7,610	0	7,610
6th FYP	12.8	0.0	12.8
			71.4
1988/89	7,249	0	7,249
1989/90	7,736	0	7,736
1990/91	9,009	0	9,009
1991/92	8,528	0	8,528
1992/93	9,015	0	9,015
7th FYP	5.6	0.0	5.6
8th FYP	8.5		8.5
1993/94	9,781	0	9,781
1994/95	10,613	ō	10,613
1995/96	11,515	0	11,515
1996/97	12,494	0	12,494
1997/98	13,555	0	13,555
9th FYP	6.5		6.5
1998/99	14,437	. 0	14,437
1999/00	15,375	0	15,375
2000/01	16,374	. 0	16,374
2001/02	17,439	0	17,439
2002/03	18,572	0	18,572
	The Edition		
10th FYP	4.0		4.0
2003/04	19,315	0	19,315
2004/05	20,088	0	20,088
2005/06	20,891	0	20,891
2006/07	21,727	0	21,727
2007/08	22,596	0	22,596

Source

⁽¹⁾ Economic Survey 1993/94, Economic Advisor's Wing, Financial Divsion (2) JICA Study Team

Appendix Table 2.2.4.40 Projection of Production and Consumption of Iron Ore (000 tons)

	Iron Ore	Tay 194	
	1 1 V 1 4 1	Iron Ore	e Beschille
Year	Production	I/E	Consumption
	1.5		1
1983/84	0	-817	817
1984/85	. 0	-1,205	1,205
1985/86	4,860	-1,377	6,237
1986/87	5,406	-1,438	6,844
1987/88	5,845	-1 ,5 05	7,350
6th FYP	9.7	0.0	8.6
		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1988/89	5,500	-1,397	6,897
1989/90	4,263	-1,547	5,810
1990/91	318	-1,501	1,819
1991/92	937	-1,623	2;560
1992/93	1,922	-1,701	3,623
7th FYP	-23.1	0.0	-14.9
	1 4 1 1		
8th FYP	5.0	5.0	5.0
1993/94	2,018	-1,783	3,801
1994/95	2,119	-1,972	4,091
1995/96	2,225	-1,966	4,191
1996/97	2,336	-2,064	
1997/98	2,453	-2,168	4,621
	4, 1		
9th FYP	3.0	4.5	3.7
1998/99	2,527	-2,265	4,792
1999/00	2,602	-2,367	4,969
2000/01	2,680	-2,474	5,154
2001/02	2,761	-2, 5 85	5,346
2002/03	2,844	-2,701	5,545
10th FYP	3.0	3.0	3,0
2003/04	2,929	-2,782	5,711
2003/04	3,017	-2,762	5,883
2005/06	3,107	-2,952	6,059
2006/07	3,201	-3,040	6,241
2007/08	3,297	-3,132	6,429
	,	•	• .

⁽¹⁾ Economic Survey 1993/94, Economic Advisor's Wing, Financial Division

⁽²⁾ Pakistan Year Book (Twentieth Edition) 1992/93

⁽³⁾ JICA Study Team

Appendix Table 2.2.4.41 Projection of Production and Required Materials of Pakistan Steel Mill (000 tons)

	the state of the s	edan en maren			
	(A)	(B)	(C)	(D)	(E)
	Steel	Coal	(B)/(A)	Iron Ore	(D)/(A)
Year	Production	Imports		Imports	
1983/84	654	439	0.67	817	1.25
1984/85	965	648	0.67	1,205	1.25
1985/86	1,102	740	0.67	1,377	1.25
1986/87	1,151	773	0.67	1,438	1.25
1987/88	1,204	809	0.67	1,504	1.25
6th FYP	16.5	16.5	0.67	16.5	1.25
		0.0	0.77	1.200	1 16
1988/89	1,181	910	0.77	1,396	1.18 1.28
1989/90	1,204	1,023	0.85	1,547	1.20
1990/91	1,228	979	0.80	1,501	1.30
1991/92	1,252	985	0.79	1,622 1,701	
1992/93	1,277	1,044	0.82 0.80	5.1	1.3.
7th FYP	2.0	3.5	0.80	5.1	1.2
8th FYP	5.0	5.0	2. _{特别} ,并对选。	5.0	
1993/94	1,341	1,073	0.80	1,783	. 1.3
1994/95	1,408	1,126	0.80	1,872	1.33
1995/96	1,478	1,183	0.80	1,966	1.3
1996/97	1,552	1,242	0.80	2,064	1.3
1997/98	1,630	1,304	0.80	2,168	1.3
	_				
9th FYP	4.5	4.5	0.00	4.5	1.3
1998/99	1,703	1,363	0.80	2,265	1.3.
1999/00	1,780	1,424	0.80		
2000/01	1,860	1,488	0.80	2,474	1.3
2001/02	1,944	1,555	0.80	2,585	1.3
2002/03	2,031	1,625	0.80	2,701	1.3
10th FYP	3.0	7.0	• : •	3.0	
2003/04	2,092	1,674	0.80	2,782	1.3
2004/05	2,155	1,724	0.80	2,866	1.3
2005/06	2,219	1,775		2,952	1.3
2006/07	2,286	1,829		3,040	1.3
2007/08	2,355	1,884	0.80	3,132	1.3

Economic Survey 1993/94, Economic Advisor's Wing, Financial Division
 Pakistan Year Book (Twentieth Edition) 1992/93
 JICA Study Team

Appendix Table 2.2.4.42 Projection of Production and Consumption of Other Minerals (000 tons)

	Other Minerals	Other Minerals		Antimony	Marhle	China Clay	Chromite	Dolomite	Fire Clay	Corneman	Port Salt	Silies Sand	Soan Stone	Raravte	Orhere
Year	Production	VE.	Consumption	(morning)	777	Cilian Ciay	CHIVE	2000	t are cany	mmed (TACK SHIP	omea came	South Store	316	e company
	***		444					ų,			, GP		5	ć	Č
6/8/61	C44,	<i>،</i> د			FI S		v .	C ,	7 5	# 95 7	8 6	\$ 3	n n	25	386
13/3/80	155,1	۰ د	155,1		76		†	07	'n	800	Ç,	\$ 7	7.	<u> </u>	200
1980/81	1,779			χ.,	114		- (\$ 8	8 (X	514 14	\$ 8	8 8	21	3
1981/82	<u>3</u> ,				ŝ		יי	3	8	503	48	3.	23	S.	3
1982/83	1,728	0											19	ຊ	
Stb FYP	4.6	0.0	4.6	-12.7	0.4	10.7	0.0	60.7	7.3	9.9	3.0	13.8	-129	-11.1	0.0
1002/07	21.7		1713	•	5		₹	*	8	330	8	8	7		S
1004/06	(1,71)	-		.	្តី ខ		1 0	1 5	4, 2	500		} =	5 5	7	8 6
138483	1,031			,	5 2		υ Σ	120		38.	610	101	3 -	1.5	00.00
1202/00	200,		•	:	777		1	151	ξ	707	433	S E	4 6	7 6	8 8
1987/88	2,000	9	٠.		216			1 2	3 2	4	205	3 2	1 2	3 11	9
CAP TAND	40	00	*	900	20.0	701	, 466	131	17.4	4	3.6	13.4	10.8		00
71 J 070	?	3	Ç.	3	\ 1	73.0	1	1	į	}		·		1	2
68/8861	2,195	4	2,155	25	223	>	21	100	118	426	620	165	38	30	400
06/6861	2,410	33			267	30	33	105		491	735	136	31	25	94
16/06/1	2.556	43			281	4	24	22		468	736	143	32	58	400
1991/92	2,613	42			321	4 4	78	180		473	833	132	37	96	400
1992/93	2,865	4		S	388		,	i				158	4		004
7th FTP	6.9	0.0	7.0	-33.1	14.9	-0.7	7.71	21.8	7.00	5.8	9.6	1.1	0.9	3.5	0.0
					.*										
Stb FYP	10.0		9.0	9.0	15.0	16.0	10.0	7.0	4.0	13.5	30	23.0	16.0	3.0	0.8
1993/94	3,128	S		v	944			235	137	605	922				432
1994/95	3,425	73	- A. - S.	νρ	513	S	78	252	5	883			65	te"	194
1995/96	3,761	108		9	989	8 6	31	270	84	2			7.5	٠.	\$ \$
16/96/61	4,142	160		9	629	29	34	288	15	888	_		87		\$44
1997/98	4,576	235	4,340	9	780	78	37	309	191	1,004		445	101		588
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YEN YEN	2.7		ņ	9.6	9.0	÷	ં દૂ ૧.૧	0.C	C.7	0.0	4	9	071	3. 3.	0.
1998(55	4,870	3		\	3		6	476	8	1,0		84	9	10	110
00/6661	660°C	7/1	524,4	~ t	216		74	3 5	<u> </u>	1,107	V/0'E	900	9 9	76	3
200001	\$ 000 m	Ŧ.			3 5	٠	1	31.6	غ <u>د</u>	1,102	٠.	3 5	7.7	3 3	5 8
70/1/02	\$ 00°	110		X O	7,00,1		4	6/6	77	1,220		30/	ት ት	X	8
2002/03	6,027	18	5,947	00	1,147	109	જ	386	<u>88</u>	1,281	1,146	35	8 2	38	715
TON TANK	**		. . 	04	9	Ů.	Ç	¥	3.6	6		10.0	100		07
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200405	300	138	9000		1,288	120	ล	\$	191	1,413	1,211		212	<u>ج</u>	577
2005/06	7,060	176			1,366	126	25	456	82	1,483	1,244	1.083	38	88	\$
2006/07	7,449	221	7,228	9	1,448	132	જ	£ 4	201	1,557	1,279	1,148	92	&	837
2007/08	7,864	274			1,535	139	8	8 8	506	1,635	1,315	1,263	788	9	8
										:					

(1) Economic Survey 1993/94, Economic Advisor's Wing, Financial Division (2) 8th Five Year Plan, Planning Commission (3) JICA Study Team

Appendix Table 2.2.4.43 Projection of Additional Power Supply

	Private														K			k	٢
	U U	U U U	C C C	Oil-fired	Oil-f	Ired Oil-	Oil-fired	CC	ပ	r C	ri U	Others	Total	Total	Crand	Crand	Cramo	<u>.</u>	
	j j												Thermal	Private	Total	Total	Total	E E	
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													Installed	Installed	Power	Power	Power	Total	
													Capacity	Capacity	Installed	Installed	Installed		
															Capacity	Capacity	Capacity		٠
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	an c	Laoirwal	Lasoera	- Officer	Lawak						or Ghothi								
	Kıver	a Power	district	Sporo	LOWE	LOW CA	ŀ		30.00	Ç	O TO								
		Plant		Power	Flant	Flant				STECO	•					:			
				Plant				ະ	(Cuetta)	Ses	,								
		**								(Cuetta)						1		-	Ì
Final Capa	1.900	147	350	3 420		109	120	1,800	192	125	009	008'6	15,475	15,475	2,089	17,876	300	20,265	265
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9. EVD						-			:			,							
1118										•	¢		•	•					131
1993/94	0	0				•	o	>)	>	>	>	ָר ר י	•	* 1	1011			į
1994/95	0	147		٠.	•	0	0	0	0	0	0	139	82	-					} }
1005/06	323		350	137			0	0	0	0	o	139	1.08						8
1006/07	2 6	:				8	120	Φ	0	0	0	139	2.577		0	4,978		0 45	4,978
1007/08	1 292					60	120	040,1		0	0	139	3.617						318
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													•						
Yarır					•	٤		5	5	136	8	25	4767	4767	182			0 7.3	52
1998/99	1,292					3.5	3 5	3 8	5 3	1.5	3 8	3 8	256.6			71.68			8
1999/00	1.292					3	₹.	31.1	3		3 8	3 6	7 0		•				ŀ
2000/01	1.292					8	120	1,18	봀	125	3	3			., ,			- •	- [
2001/02	1,292		350			8	120	1,100	ጀ	125	8	9 9 9 9	8.267		1,609	10,668	906		17277
2002/03	1,292	147		2 420		8	120	1.100	Ş	125	8	3,900		8,267	_				2
10th FYP				7						, c							000	13057	Ş
2003/04	1,292					8	128	1,100	<u> </u>	31	3	3				00000			3
2004/05	1,292	147		0 - 420		8	120	1,18	25	23	8	3,900							ì
2005/06	1,900	147	:	0 420		98	120	1.800	7	125	8	0086				٠			રે
2006/07	1.900		350			38	120	1,800	함	125	909	9,800	15,475	15,475	2,089	17,876	300	20,265	3
2007/08	1.900	 :				109	120	1,800	<u>इ</u>	125	9	6 800			:				265
						÷													
Note:																			
					•														

(1) C.C. means gas and oil combined cycle power generation type.

Source:
(1) 8th Five Year Plan, Planning Commission
(2) JICA Study Team

Projection of Additional Power Supply

Ghazi Neelum Brotha Jhelum Hydro Hydel Project Project Project Project Project Project Project Project Project Organization	Cashma Hydel Power Project 184 0 0	0000	300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	Guddu M 145 145 145 145 145 145 145	Mangula Fai 100 100 100 100 100	Faisalabad Lakhra 40 1 40 1 40 1 40 1	ା କାର୍ୟ କ୍ରେକ୍ଟ	Muzaff- K argar 1,120 392 1,120 1,120 1,120	# 64 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Kot Addu Bin Qas 396 264 596 596 596	Din Qasim 210 0 0 0 0 0 0 210 210	2,401 1,131 2,191 2,191 2,401 2,401	4,730 1,131 2,191 2,401 2,401
Hydro Kohala Power Hydel Project Project 1,456 480	<u>'</u>	0 0 0	0.00	00000	145 145 145 145 145 145	8 8 8 8 8	3 3 3 3 3 4		392 1,120 1,120 1,120	8 8 8 8 8	8 8 8 8	210	2,401 2,191 2,191 2,401 2,401	2,191 2,191 2,191 2,401 2,401
Power Hydel Project Project 1,450 480 0 0 0	100 1	0 0 0	88	0.0000	145 145 145 145 145 145	8 88888	3 3333	81 81 81 81	392 1,120 1,120 1,120	4 4444	8 8 8 8	210	2,401 1,13i 2,19i 2,19i 2,40i 2,40i	2,191 2,191 2,191 2,401 2,401
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	<u>₹</u>	469	300	300	145	8	4	S	1,120	₹.	S.	210	7,401	5,1,6
1425	<u>%</u>	1,609	300	300	145	20	4	8	1.120	€	8	210	7,40	4.510
	<u>%</u>	1,609	300	300	145	81	8	<u>8</u>	1,120	₹	8	210	2,401	4,310
	<u>%</u>	1.969	300	300	145	100	4	150	1,120	4	8	210	2,401	4,670
10th FYP											,			
2003/04 1.425 480	184	2.089	300	300	145	100	4	<u>S</u>	1,120	₹	8	710 710	10 1 ,2	2 6
1.425	<u>\$</u>		300	300	145	8	8	150 50	1,120	3	8	210	2,401	06/7 08/7
1.425	28	2,089	300	300	145	81	4	3	1,120	8	969 780	210	2,401	3
1.425	28	2.089	300	338	145	100	3	35	1,120	\$.	286	210	2,401	8 1
1.425	₹	2,089	300	300	145	81	4	8.	1,120	3	96 98	210		

Source.
(1) 8th Five Year Plan, Planning Commission
(2) JICA Study Team

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													200000000000000000000000000000000000000					100.00		27.1%												2000000000	800000000000000000000000000000000000000	***************************************		***************************************								
Rate of program on		100.09	100.05	1000 1000 1000 1000 1000 1000 1000 100	40.48	100.0%	1	100.05	₩6.66	100.0%	100.05	100.05	9.1%	1000	100.05	100.09	1000	100.0%	213%	27.14		9625	95.5%	100.04	10.1%	99.4%	34.6%	100.05	100.0%	100.04	100.0%	2.44	35.85	27.62								13%		
1986/93 Total	1 .	246,022	ME 700	82,133	11,877	1.398	13.706	12.13 25.03 25.03	9,589	5.530	6.135	8.800	106,207	1.820	579	798	18,330	2,861	96.00 1	1.067.034		151,766	414,205	11,859	1,500	812.7 127.7	3,100	7,524	3,205	2,55	7,000	1 500	000,01	825.286	- !	491,136	38,785	37.30	39,10	45,930	45.894	6 4 8 9 8	385,	1,058,852
7th FYP Total	4	48,009	62,000	57,046	11,877	13 X	10,706	6,159	99	2 530	1,162	4100	106,207	155	25	262	6,703	7,861	10,000	555.372		19,255	180,407	2859	1,500	7,000 2,000 1,000	2,600	7,524	3,205	1924	14,000	200	10.000	307,940		5,800	10,000	11,664	28,942 12,60 8	16,430	45,740	2 4 0 4 0 7	4,566	176,028
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2ad 3rd 1965/90 1990/91	ł.	2165	20,000	20,000	•	37.10	2,000	9,000	ន្ត	.		۰.			7.000 7.000	٥	1,787	2,861	•	73.557	į	9	0	12,023	88	00	٥	.	• •	909	0	100	00	26,334		1,300	0 9	000,	10.971	• •	: - -	000'1	• • •	25,371
- 11	.i	****	2,00	20,000	9		5,708	3,139	ន្តិ	330	1,162	4,800	06.207	551	2,579	198	• •	• •		310.362		19.255	75,000	12,023 2,859	200	3,000	2,600	7,075	3,205	3,561	14,000		•	152,749		1,900	0 9	000	10,971	16,430	6,740	1,000	4.566	9108,719
1946789			21,700				1,500																			1,528			• •		•		٥ ج	112,250 1	:	3,000	3,000	2,500	10,000			• •		107,154
7 1967/28	•		5,000											•		•	• •		•	0 153.814 14						1,000			نه د	٥ 0	•		00	145,612 11				٠			•	00		01
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		V4 № 202/2	1	restri Colore	Rebah of damaged road, Chowk Yates Kinima	Bis 217 N.5	M9-969	723 - 731	643 fm Malter	45	ranch Cased	3/2 - 7/0	 Const of Cartacovay, N.S. Labora Salvay. 	19 lay of NH N-5 mile 136 - 197 Revalping	£4. £4.	22 Redecking of damagest bridge, N.S mile 20	23 Recent of 2 old Arch Bridge, N.S. tm 1477 24 Juny of NM N.S. 124 136. 197 December of Dis-	25 Raising and recent of N.5 km 598 - 379	26 Recount, of N.5 km 1266 - 1279 Labore - Kaku	27 Repairing of Kaladab Bridge N.5 mile 217 Substantal (R.1)		teration Hoches	29 Kori Bridge and Hyderabad Bypass		creasing, N-65	7.7		87.5	355, 360 - 361	192, 213 - 214	11 Upgrading of lader Highwy Kotri - Kashmore	42 f.5 de wisening (1-52 mine 30 - 53 muner 43 Overhend bidge de ruiway crossing Shikarpei	lipur Paka			40 Coast, addiel Caringewy, Nowskurs-Peskursa 47 Coast of D. I. Khan - Darys Khan Bridge	60 Count and improvement of D. I. Khase Dissear Rd	N-S	var - Charmeta Corram, Xohat	S Coust of Bridge over Rvr Gambila, Banne - DIX	24 to p. 200 widows N. D. 1000 ft, Postavar 25 Court, of Index Highway	56 Court, and imp. of KOC4, N-35 H. Abba to Thaket 57 Realbill, of KOCH N-35, Junkss. A behad	58 Rehabili, of KICHN-35, Abthad - Qalandarabad	anar - Nowatie
2	Road, Bridge and Highway DING IAN	Dual Caratgeway Méla 169/4 to 202/2	2 Count of Indomina Brouge 3 Robub of Gojemwale - Lalaman	Relate of Sabieral in Chebrustia	marged road C	Reducting of Kainets Brg. mile 217 No.	ten 417. 425	A 114 - 400	N.5 mile 664	d Danaged Br	idge on 10-R B	Nond for mile	Acceptant N.S. 1	X-5 mile 136 -	neconst N.5, to	f damages brid	2 old Arch Brid	2 N 30 150001	7.5 km 1266 .	Kalastab Bridg		r Karachi - Hv	and Hyderabac	s selo Benta	idge on railway	Z-5 mile 173 - Z-5 mile 173 -	Subbar Bypse	X-65 mile 45	Z S = 16354	Z5 = 1917 Z6 = 12 25 - 3	Index Higher	fracier so ofpi	dge on N.5 Km	10		Const addial Caringeny, Nowshim-Pest. Const of D. J. Khas - Davis Klass Bridge	provent of D.	ngark Bridge.	Const of 5 bridges on Penhavar - Chanda Const of Bridge over River Kersan, Kolat	te over Rvi G	ont CC-V Terms	P. of KICH, N.	OCHN-35, Ab	refer, N. S. Presi
	Road Brid	Dal	2 Const of 18 3 Robush of G	4 Relate of St	6 Rebah of d	7 Restoring of Ka	9 Rekad of NG km 417. 425, 636 - 644	10 Relate of NH km 474 - 480, 723 - 732	12 Inp. of NH N.5 mile 604 - 643 fm Maltan	13 Recent of Old Damaged Bridge 14 Periodent of Nation 5 and 1470 section	15 Recor of Bridge on 10-R Brach Canal	16 Junp. of LMQ Road for mite 3/2 - 7/8	2 Addion on the	FN Jo wat 6	20 Kaiming and recogn. N.5, has 1951 - 495 21 Rahab. of N.5 mile 485 - 486	2 Radecking o	A less of NH	S Raining and	6.Recount of	7 Repairing of Ka Substated (R.1)		Stad Seecial reon	9 Korri Bridge	30 Maro Bypass 32 Mirour Mathelo Benna	32 Overhand bridge on railway crossing, N-65	33 Widening of N.S mile 173 - 174 34 Widening of N.S mile 164 - 168	35 FS/Design of Sulthw Bypass	36 Widening of N-65 mile 45 - 48	38 Widening of N-5 mile 354 - 355, 340 - 361	39 Widening of N-5 mile 191 - 19 40 Widening of N-6 mile 43 - 39	1 Upgrading o	42 f.5 be widening IV-03 mite 50 · 51 menter 43 Overhend bridge de ruitway erossing Shika	44 Overhead bridge on N-5 Ranipur 45 Behabili of charles James Deba	Self-total (R-11)	NWF	Coast addie	Court and in	50 Court of American Bridge, N.5	Si Coust of Sty. Si Coust of Brit	Const of Bri	55 Court, of Index Highway	6 Const. and in 7 Realibili, of J	Rehabil of	Sub-takal (K-III)
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Rate of progress on exponditure	-											76.17 F	;	0 2. X	4.3		28.20		-										51.45					7.39		* 9° 9*	33.3	31,7%	
198695 Total Expendente			178.50							-	156,500	9,405,534									62,20	70,800 30,800	19,00	25.00	4 780 9 60 9 60 9 60 9 60	37,50	23,949,07		1,058,852		193.74	17.67	ě.	9,400,534		6,672,500	06/SHS.8	44,761,843	
7th FYP Total Expenditure	144,518	1364-607	173	12,032	119,960	7,000	000'08	2,100,414	000	1,750,000	15.50	460314		405,500	356,500	18,000	511,000	409,500	2,350	140,000	62,200	30,000	30,000	154,000	3,006	37,500	20,213,315	555,372	307,940	206,540	109,100	13,806		4,649,914	2,100,414	6,672,836	5,585,909	37,215,096	
Sth. 1992/93 Expenditure	24,390	239,240		• •	0,960 0,960	0	90,000	403.410	•		0 0	403,410		00 th	250,000	18,000	368,000	319,000	1000	140,000	10,000	30,000	19,000	154.000	3,000	3.007.800	10,319,585	0	00	0 34 416 01	8,100 8,100	0	14,360	403.430	403,410	3,037,800	1,467	13,776,792	
4th 1991/92 Expenditure Eu	70,000	31.8	• • •	11,400	75,600	00	•	24,565	•		•	244,565	į	351,500	0 20	0	350,750	52.500	2,250	0 00	10,000	ē °	00	0	00	37,500	5,870,589	1,439	26,500 0	24,000	20,000	• ;	10,255	244,565	244,565	1,025,371	7,864	\$,153,644	
3rd 1990/91 1 Expenditure Exp	25,000	400,000	<u>.</u>	83	60°,1	47,000	.	240,942	٥	٥	742,500	1,223,442			96,000	0	61,000	38,000	323,000	0 9	42,200	5,519 0		• •	00		1,343,535	70,014	102,357	\$1,370	17,000	0	11.	. 23,443	#80,942	742,500	,002,212	5,318,065	
 238 1969/90 19 Exposéiture Exp	11,500	37,000	908	9 a	• •	٥ (52,290			۰.	52,290		00	10,500		287,200		47,640	0 85	86.5		0 (00	134.96 6			25.25 27.27		17,000	10,231	¥.;;	52,250	52,290	294,940	3,579,366 2	5,258,557 \$	
11 1	-m c	200,000	12.6	0	00	•		919,207	900	1,750,000	000'108'	2,726,307		00	00						•		۰ ۹	• •	• •	• •	7,959,465		152,749.				27,346	705,207	919,207		0	4,708,018 5,3	
1st 1504/89		37,000		0.920				EE 610 91	•	17.1		11,620 2,72		• •	.			•	• •	۰.	.	~ ~	•	ة ٍ خ			67 211 73		112250	•	•			##,620 2,7;	88,620 9		0	1,068,700 4,70	
1947/88					• •	٠					۰.			• •		•	•		• •	•		- 0		• •	.	•			145,612 11. 199,227 10							۰.	0		
1946/87 Expenditure			1,000		•			184,000		a io		000,981	٠.				•			6							59 650,720							186,000	136,000	0.0	۰	360,478	
1986 June Expenditure	(35,000	000°LZ	97,900			-		403,00		_		4479,000				-				_							2,135,56		25.52 25.62 25.63					4,479,000	4,479,000			6,617,569	
Amount of Ferrigs Aid	01,513,130	231,810	301,000	e 37.9	13,800	23.18	70.960	3,450,156	•	•	2,376,000	5,826,898		315.260	511,20	#7,400 #6,600	469,000	253,000	1,237,000	138,000	526,528 500	00			• •	0	23,171,154	7.15	• •	0 000	0,480,53	0	19.48%	368'978'S	3,450,898	6,796,388	401.484	39,919,624	
S. S. S.	AD8	Beigins		YD8	5	YD9	000	}						IBRD	IBRD	E CO	ON F	Q.																					
Total Cost PEC	4700,000 FEC		407,000 FEC 99,871	4,950 12,032 FEC	34,378 FEC	7,000 FEC	9,800 FEC	9.7.0		1,750,000	1,770,000 FEC 4,777,000	13,077,740		SAZ DOG FEC	731,040 FEC	146,400 FEC 220,400 FEC	\$76,000 FEC		2748,000 FEC			106,625	0000	2,900	3,006	37,500	M1,149,442	3,937,432	2,059,645	1,256,381	303,220	5 E C C	419,178	13,077,743	0,743	13,734,791	14,004,261	\$75,8	
	\$	9.	**			3	- 2	2		57,1	55	DOT:		37 E	j E.	7 H	5	3	1.72	8	 	9 6		n X		. E	Î	3,9	2,0	7		•	*	130	Ţ.	4 61	140	121,300,575	
Year Sebaselor	PORTS AND SHIPPING 1 Per Quin (Num-1)	2 PCII for ON Tarminal at PQA 3 Gradus Fift Harborn Project	4 Prentument of design: 5 Permanent maps for PMA	6 Light Moun at Ketty Brader 7 Inland Waler Transport Stydy	2 FS on oil ternion	10 Ceart of temperary of heading facilities	11 Upgrading of Laboratory at PNA.	Subsect (P.1)	Shipping Corporation	13 SQ,000 leys Bell Carrier 14 5 Container ship	15 S.Now Container of 1,200 Capacity Sub-total (P-U)	Sub-testal (C)	MINISTRY OF RAILWAYS	1 Rebalk of 660 and prog. of 270 fraction motor	3 Spares for sait exchange and inventory	4 Institutional development 5 VER & USF communication	6 Fitnent of roller bouring	3 S locemotives	9 Loco factory 10 Reballs of 102 foremotives	1) Track circuiting (Electrification Extention)	12 Passenger conchemassifactoring (525 voits) L3 Bridge works.	14 Lise capacity 15 Researches of contra	16 Resovation of conchest wagons	17 Wagos station 18 Electrical works	19 Under pass at Kamonki 20 Pre-fearibility andy on high speed train	21 Imp. of rigan works	Sub-total (A) Month bridge and highway	Sub-total (R-1) Purjab	Seb-total (R-II) Sindh Seb-total (R-III) NWFP	Sub-lotal (R-IV) Buichistan	Sub-total (R.V7) NLC Roads	Sub-total (R-VII) Frontier Works Org. Road	Sab-total (B) Manning and Development Foreign Aid Dependency Ratio	Sub-total (C) Forts and Shipping Engine Aid December 2 via	Sub-dotal (Pur) Ports	Sub-total (P.II) Shipping Sub-total (D) Rallways	Foreign And Dependency Natio	Foreign And Dependency Kabo GRAND TOTAL SOCIETY IN TOTAL	
187 244 344 445 545 545 545 545 545 545 5255 525		ONO			「「「「」」 「「」」 「「」」 「」 「」」 「」 「」 「」 「」 「」		202			ij				ONO MAN		ONO MEN	VIEW VIEW		1 A A A A A A A A A A A A A A A A A A A			NEX	200	24 24 24 24 24 24 24 24 24 24 24 24 24 2		ATTENDED TO THE PARTY OF THE PA													