

川 夕 イ 国

1. 保健医療関連資料 (Thailand Health Profile, Ministry of Public Health) より

Initial Acceptors as a percent higher or lower than the Target by Method, 1972-1976

Year	Pill			IUD			Sterilization			All Methods		
	Target	Acceptors	% Higher + Lower -	Target	Acceptors	% Higher + Lower -	Target	Acceptors	% Higher + Lower -	Target	Acceptors	% Higher + Lower -
1971	200,000	294,607	+ 47.3	80,000	86,034	+ 7.5	-20,000	23,546	+ 17.7	300,000	404,187	+ 34.7
1972	235,000	327,582	+ 39.4	90,000	90,128	+ 0.1	25,000	32,668	+ 30.7	350,000	450,960	+ 28.7
1973	280,000	268,674	- 4.0	90,000	93,449	+ 3.8	30,000	49,606	+ 28.7	400,000	411,729	+ 2.9
1974	280,000	305,244	+ 9.0	90,000	89,739	- 0.1	35,000	73,702	+ 110.6	405,000	494,479	+ 22.1
1975	280,000	345,117	+ 23.26	90,000	75,163	- 16.5	40,000	80,184	+ 100.46	410,000	561,694	+ 36.99
1976	280,000	344,779	+ 23.13	90,000	76,259	- 15.26	75,000	104,449	+ 39.26	445,000	637,224	+ 43.16
Total	1,555,000	1,886,003	+ 21.28	530,000	510,772	- 3.62	225,000	364,155	+ 61.84	2,310,000	2,960,273	+ 28.15

Remarks : - The total of All Method is higher than the sum of All Methods because the total of All Methods includes the acceptors using methods other than those listed. (e.g, Foam, Diaphragm, Condoms etc.)

Sources : - NFPP Performance Reports 1973-1975. Research and Evaluation Unit, NFPP, MOPH.
- Computer Print-out 1976 upto September 1976. Estimate October-December 1976.

Ministry of Public Health

Institution Category of worker	C. Hospital Division								D. Training Div.				
	National Cancer Institute	Surat Thani	Chanthaburi	Surin	Uttaradit	Ratchaburi	Srihanya Hospital (Nonthaburi)	Communicable Diseases Hospital (Bangkok)	Chest Hospital (Nonthaburi)	Chon Buri	Yala	Khon Kaen	Phitsanulok
Cryotechnician	x												
Dentist													
Dental Hygienist			x										
Dental Auxiliary			x										
Health Educator													
Laboratory Technician													
Medical Technologist													
Midwife													
Nutritionist													
Nurse-midwife													
Nurse practical		x	x	x	x	x	x	x	x				
Physical Therapist													
Nurse Practitioner													
Public Health Nurse													
Sanitary Engineer													
Pharmacist													
Physician													
Occupational Health													
Senior Sanitarian													
Sanitarian										x	x	x	x
Veterinarian													
MPII													
Other													

Category of worker	Institution												
	Ministry of Agriculture and Cooperatives	Ministry of Defence :	a) Army	b) Navy	c) Air Force	Ministry of Interior :	a) Police Hospital	b) Vajira Hospital	c) Central Hospital	Private Hospitals	a) McCormick (Chiang Mai)	b) Mission (Bangkok)	c) Hoachiew (Bangkok)
Cryotechnician													
Dentist													
Dental Hygienist													
Dental Auxiliary													
Health Educator													
Laboratory Technician													
Medical Technologist													
Midwife													x
Nutritionist													
Nurse-midwife			x	x	x		x	x	x		x	x	x
Nurse Practical	x							x					
Physical Therapist													
Nurse Practitioner													
Public Health Nurse													
Sanitary Engineer													
Pharmacist													
Physician													
Occupational Health													
Senior Sanitarian													
Sanitarian													
Veterinarian													
MPII													
Other													

**List of Institutions producing health manpower by category
Universities**

Category of worker	Institution											
	Chulalongkorn University	Khon Kaen University	Chiang Mai University	Mahidol University :	a) Siriraj Hospital	b) Ramathibodi Hospital	c) Faculty of Public Health	d) Faculty of Graduate Studies	e) Faculty of Pharmacy	f) Faculty of Dentistry	g) Faculty of Tropical Medicine	Songkhla University
Cryotechnician												
Dentist	x		x							x		
Dental Hygienist										x		
Dental Auxiliary												
Health Educator							x					
Laboratory Technician	x				x	x						
Medical Technologist	x		x			x		x				
Midwife												
Nutritionist							x					
Nurse-midwife	x	x	x		x	x						x
Nurse Practical			x		x	x						
Physical Therapist	x				x							
Nurse Practitioner							x					
Public Health Nurse							x					
Sanitary Engineer	x											
Pharmacist	x	x	x					x				
Physician	x		x		x	x						x
Occupational Health												
Senior Sanitarian							x					
Sanitarian												
Veterinarian	x											
MPII							x					
Other											x	

Ministry of Public Health

Institution Category of worker	A. Nursing Colleges							B. Midwife Schools						
	Bangkok	Phitsanulok	Korat	Chanthaburi	Songkhla	Nakhon Sawan	Ubon Ratcha Thani	Narathiwat	Saraburi	Lampang	Khon Kae	Yala	Ratchaburi	Vajira (Bangkok)
Cryotechnician														
Dentist														
Dental Hygienist														
Dental Auxiliary														
Health Educator														
Laboratory Technician														
Medical Technologist														
Midwife									x	x	x	x	x	
Nutritionist														
Nurse-midwife	x	x	x	x	x	x	x		x					
Nurse Practical	x	x	x	x	x		x	x	x					
Physical Therapist														
Nurse Practitioner														
Public Health Nurse														
Sanitary Engineer														
Pharmacist														
Physician														
Occupational Health														
Senior Sanitarian														
Sanitarian														
Veterinarian														
MPH														
Other														

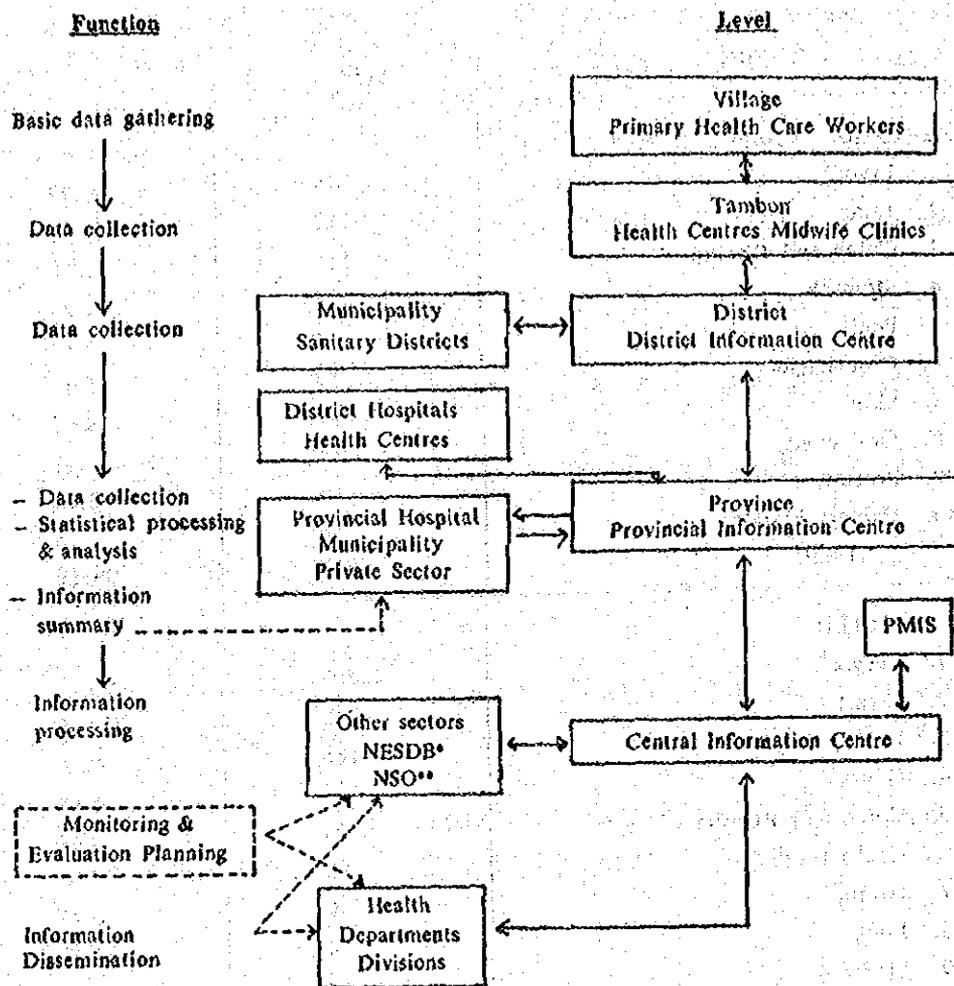
Annex 12

Tuberculosis Control Services				
Specialized Centres	1972	1973	1974	1975
Number of persons submitted to X-ray	243,020	269,836	256,617	249,782
Tuberculosis cases detected by X-ray	34,851	34,651	34,068	33,302
Number of new patients with positive sputum	10,992	12,920	11,816	12,696
New patients registered for treatment	33,651	38,528	40,222	36,795
Total number of patients under treatment	41,232	64,701	66,816	66,226
Provincial TB Services				
Microscopic Examinations of Sputum of Symptomatic patients	15,203	12,418	14,045	14,411
Number of patients found positive	1,519	1,177	1,071	864
New patients registered for treatment	15,478	13,657	9,487	3,900
Total patients under treatment	14,922	11,307	10,589	11,301

THE TEN LEADING SITES OF CANCER BY SEX (1974)

Site	No. of patients	%
A. MALE		
1. Liver	375	21.99
2. Lung	227	13.31
3. Colon and Rectum	156	9.15
4. Stomach	136	7.98
5. Penis	98	5.75
6. Oesophagus	86	5.04
7. Skin	83	4.87
8. Oral cavity	82	4.81
9. Prostate	56	3.28
10. Urinary bladder	56	3.28
Total	1,705	100.00
B. FEMALE		
1. Cervix	509	29.42
2. Breast	220	12.72
3. Liver	168	9.71
4. Ovary	107	6.18
5. Colon and Rectum	95	5.49
6. Oral cavity	90	5.20
7. Uterus	69	3.99
8. Lung	64	3.70
9. Stomach	57	3.29
10. Skin	53	3.06
Total	1,730	100.00

INFORMATION SYSTEM NETWORK



*NESDB : National Economic & Social Development Board (National Planning Committee)

**NSO : National Statistical Office

Tuberculosis Positive Rates
Percentage of X-ray positive and sputum positive cases by age groups and areas
 (Based on 1960-1965 Epidemiological Survey)

Age	Bangkok	Municipal Areas	Rural Areas	Whole Country
0 - 14	1.0 (0.1)	1.0 (0.05)	0.8 (0.04)	0.8 (0.04)
15 - 19	1.4 (0.1)	0.3 (0.06)	0.4 (0.00)	0.4 (0.01)
20 - 29	2.9 (0.8)	1.5 (0.3)	1.5 (0.2)	1.6 (0.2)
30 - 39	5.2 (1.7)	2.2 (0.7)	1.9 (0.5)	2.1 (0.6)
40 - 49	7.6 (2.4)	5.7 (2.9)	3.1 (0.8)	3.6 (1.1)
50 - 59	13.8 (4.7)	9.8 (3.1)	6.3 (2.2)	7.0 (2.4)
60 +	15.4 (3.9)	13.4 (6.5)	9.4 (2.8)	10.1 (3.2)
All ages	3.8 (1.0)	2.7 (0.9)	1.9 (0.4)	2.1 (0.5)

(Numbers in parenthesis denote bacteriologically positive cases)

TRAINING CAPACITY - HEALTH WORKERS - SHORT - TERM
BASIC TRAINING COURSES

Category	No. of pro--grammes	No. of students admitted	Pro--gramme length (weeks)	Remarks
1. Village Health Volunteers	6		4	Nationwide training of VHC/m. VHV starts 1977 in 20 provinces
2. Health Communicators	2		1	-- ditto --
3. Tambon Doctors	1		6	Offered intermittantly
4. Traditional Midwife--T.B.A.	1		4	Apprenticeship prior to formal training
5. Child Nutrition-- Centre Attendant	1		2	-- ditto --
6. Side--room laboratory worker Chon Buri	1	40	10	
7. Laboratory aids--Chon Buri	1	40	40	

The current capacity for these short--term training cannot be stated. These courses are not offered on a regular basis, but according to the needs of the health system.

MANPOWER TRAINING PROGRAMMES IN FOURTH FIVE YEAR PLAN

Target	
Category	Number of persons
1. Physician	2,500
2. Nurse-Midwife	10,000
3. Nurse-Practitioner	1,400
4. Practical Nurse	7,590
5. Midwife	2,500
6. Health Worker	4,800
7. Teacher	600
8. Sanitarian	500
9. Laboratory Technician	1,100
10. Medical Technologist	650
11. Dental Auxiliary	560
12. Village Health Volunteer	22,400
13. Village Communicator	200,000
14. Child Nutrition Centre Attendant	1,000
15. Traditional Midwife	8,400
16. Tambon Doctor	2,800
17. Pharmacist	1,250
18. Dentist	750

FACILITIES CONSTRUCTION

Midwife Centres	2,000
District Health Centres	600
District Hospitals : Medical & Health Centres	108
Hospital Beds	12,290

Environmental Health Schemes National Implementation Targets, 4th Five Year Plan

Schemes	Targets	1976
1. Urban Water Supply, new	48	12
2. Urban Water Supply, Extension	70	9
3. Rural Pipe Water, new	225	51
4. Rural Pipe Water, extension	—	44
5. Small Scale Water Supply	10,000	1,316
6. Cisterns	5,000	NA
7. Tube Well Small	4,000	NA
8. Big Tube Wells	12,000	1,548
9. Shallow Wells	21,000	8,628
10. Steel Tanks 400 gallons	8,000	1,418
11. Concrete Tanks 150 cubic meters	400	60
12. Sanitary Latrines	2,360,000	70,286

TRAINING CAPACITY -- HEALTH WORKERS -- ACADEMIC PROGRAMMES

Category	No. of programmes	No. of students admitted	Annual output	Programme length (years)	Remarks
1. Physician	5	330	440*	6	*90% of students entering these academic programmes complete them successfully **Diploma ***240 students per year starting 1978
2. Nurse--midwife	21	1575	1545	4½ (**)	
3. Nurse--practitioner	1	59	280***	1	
4. Practical Nurse--midwife	10	603	600	1½	
5. Practical Nurse	7	404	400	1	
6. Sanitarian	4	530	515	1½	
7. Dentist	3	160	160	4	
8. Dental Hygienist	1	20	20	1	
9. Dental Auxiliary	1	30	30	2	
10. Midwife	6	544	540	1½	
11. Medical Technologist	3	60	60	4	
12. Laboratory Technician	1	15	15	2	
13. Nutritionist--B.Sc.	1	11	11	4	
14. Health Educator--B.Sc.	1	8	8	4	
15. Public Health Nurse ;					
-- B.Sc.	1	90	90	2	
-- Dip.	1	198	198	1	
16. Pharmacy	3	250	225	5	
17. Master of Public Health					
-- General	1	13	13	1	
-- Hosp. Adm.		14	14		
-- Urban Health		11	11		
18. Doctor Tropical Medicine	1	43	43	1	
19. Veterinarian	1	30	30	5	
20. X-ray Technician	1	40	40	4	
21. Sanitary Engineering	1	10	10	4	
22. Practical Nurse Psychiatric	1	103	103	1½	
23. Occupational Health--B.Sc.	1	9	9	4	
24. Senior Sanitarian--B.Sc.	1	33	33	4	
25. Laboratory Assistant	1	30	30	1	
26. Cryotechnician	1	10	10	1	

National Cancer Institute

The attrition rate for all categories of health personnel ranges from 2% to 7%.
The physicians and nurses are at the highest end of the scale.

Problem	Index (1972)	Targets
<ul style="list-style-type: none"> - I₂ deficiency - Periodontal disease - Trachoma - Refractive error 	<p>N.A. N.A. Infective stage 8.5/100 Urban (5-14) 5/100 Rural -</p>	<p>10% reduction 40% reduction 5/100 60% reduction urban 2/100 50% reduction rural -</p>
<p>Accidents, Poison, Violence and Disaster</p> <ul style="list-style-type: none"> - Home accident - Traffic accidents - Industrial accidents - Agricultural accidents 	<p>Mortality 8.08/100,000 Mortality 10.5 /100,000 Incidence 100 /100,000 Mortality 9.66/100,000</p>	<p>8.08/100,000 10.5 /100,000 75 /100,000 9.66/100,000</p>

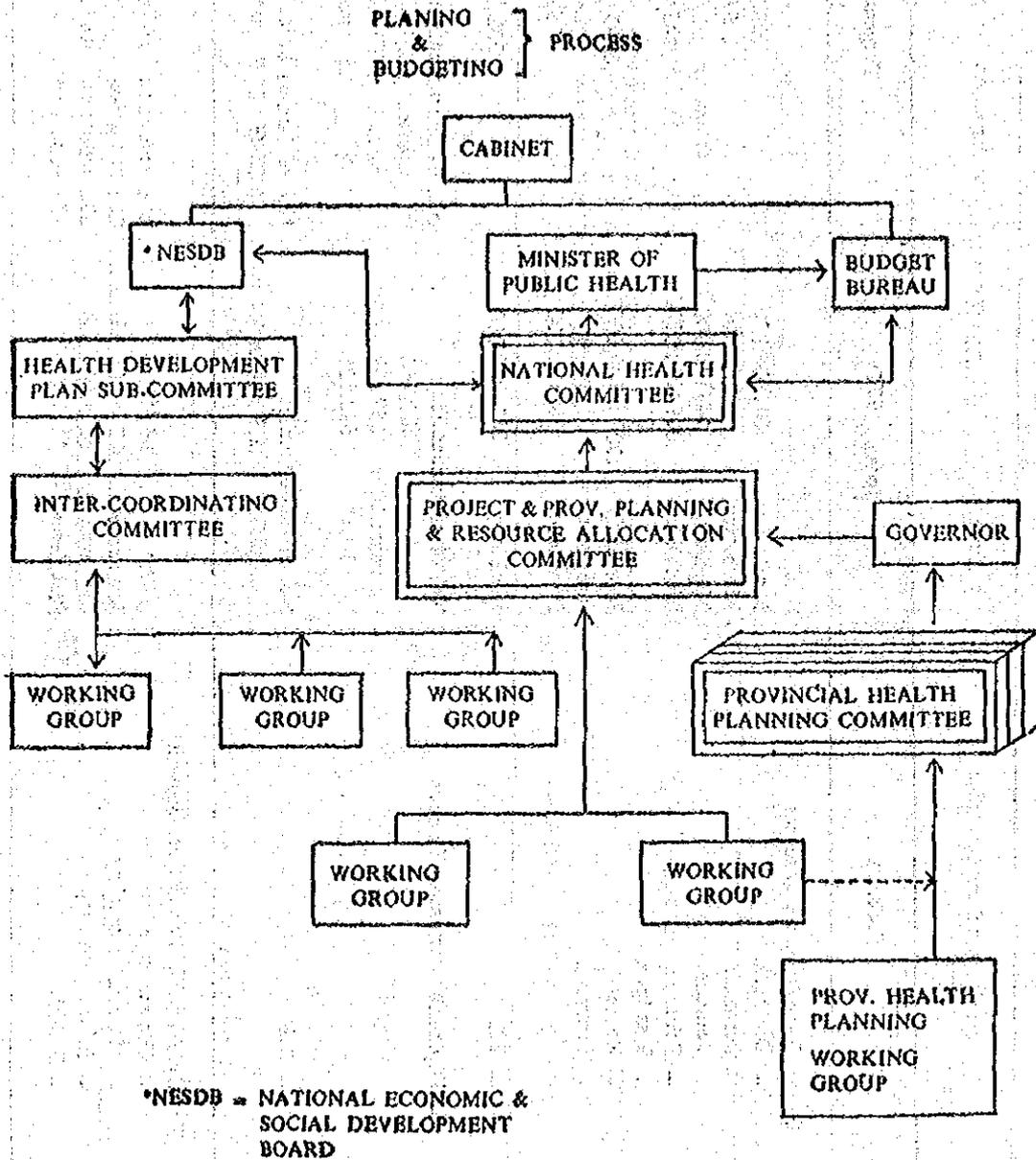
HEALTH COVERAGE AND OUTPUT

Service	Index & coverage (1972)	Target
Immunizations -- D.P.T. -- B.C.G.	(0-4) ages/3.22 x Attended deliveries 5.16 x	80 % 100 % attended deliveries
Antenatal Care	(35.03 x clinic visits)	50 % of total pregnancies
Family Planning -- Service recipients -- Continuing users -- New acceptors	1.4 million (1965/1972)	1.6 million 3 million
Food Handler Training	27,925 persons	50,000 - 200,000 100 % in schools
Safe Deliveries	10.9 %	50 % of total de- liveries be qua- lified attendant
Post Natal Care		68 % of deliveries
Protein Supplement	P.C.M. Morbidity (0-4) 55-88 %	15 % age 1-4
Physician: Population	Bangkok Central Administration 1:1,621 Provincial/Rural Municipality 1:30,863	1:10,500
Hospital Beds/Population	Total Pop. : 1.17:1,000 Rural 1.11:1,000 Urban 6.65:1,000	1.36:1,000 1.62:1,000 8.5 :1,000
Rural Population Coverage by Government Health Service	16 % (1970 survey)	20 % (incl. Health Post: 30 %)

Problem Levels and Reduction Targets

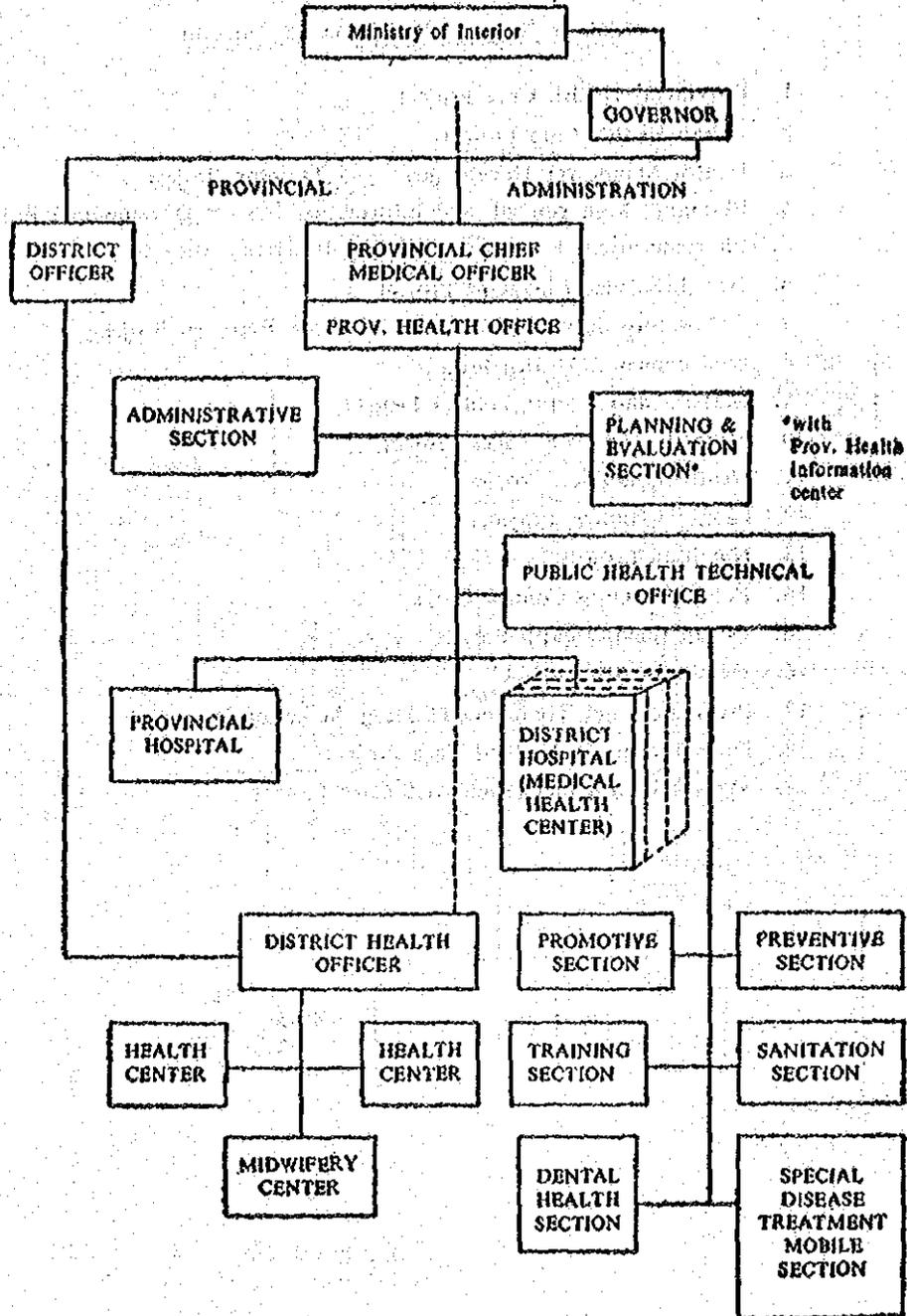
Problem	Index (1972)	Targets
Water and Food Borne Disease	Mortality : 118/100,000 Morbidity : 26,600/100,000 Safe water (1975) rural 20% urban 41% Excreta disposal 12.6% urban - Refuse disposal - rural - urban -	50% reduction - 60/100,000 30% reduction - 18,700/100,000 rural 25% urban 50% rural 50% urban 75% rural 50% urban 75%
Vector Borne Disease includes: - Malaria - Dengue Haemorrhagic Fever	A.P.I. 240/100,000 Mortality 9/100,000 Morbidity 640/100,000 Mortality 7/100,000 Morbidity 64/100,000	30% reduction - 90/100,000 50% reduction - 4.5/100,000 30% reduction - 450/100,000 60% reduction - 2.8/100,000 50% reduction - 32/100,000
Respiratory Tract Infections	U.R.I./morbidity 92,700/100,000 Pneumonia/mortality 1 yr. 265/100,000 T.B./morbidity 105/100,000	50% reduction - 46,350/100,000 50% reduction - 132/100,000
Skin Diseases Mental Health - Drug Abuse School Ages	Morbidity 4,287/100,000 Prevalence 750/100,000	15% reduction - 3,634/100,000 30% reduction - 500/100,000

Problem	Index (1972)	Targets
Other Communicable Diseases		
- Diphtheria	Morbidity .06/100,000	.03/100,000
- Pertussis	Morbidity .63/100,000	.15/100,000
- Tetanus	Morbidity .04/100,000	.02/100,000
- Polio	Morbidity .009/100,000	.0045/100,000
- Smallpox	0	0
- Rabies	Mortality .0073/100,000	.0073/100,000
- Leprosy	Incidence 3/1,000	1/1,000
	Prevalence 79/100,000	75/100,000
- V.D.	Morbidity 382/100,000	382/100,000
- Diphtheria, Pertussis, Tetanus	No. of immunization : urban 129,282 rural 559,239 Total 688,521	No. of immunization : urban 1.9 million rural 13.1 million Total 15 million
- T.B.	No. of immunization : BCG 1.3 million	No. of immunization : BCG 8 million
Family Planning Population Growth	(1976) 2.6/100	20% reduction 2.1/100
- Growth rate	Assumption 4.2/1,000 LB	20% reduction
- Maternal mortality	Assumption 65/1,000 LB	30% reduction 48/100
- Infant mortality	Prevalence 72/100	10% reduction
- P.C.M.		

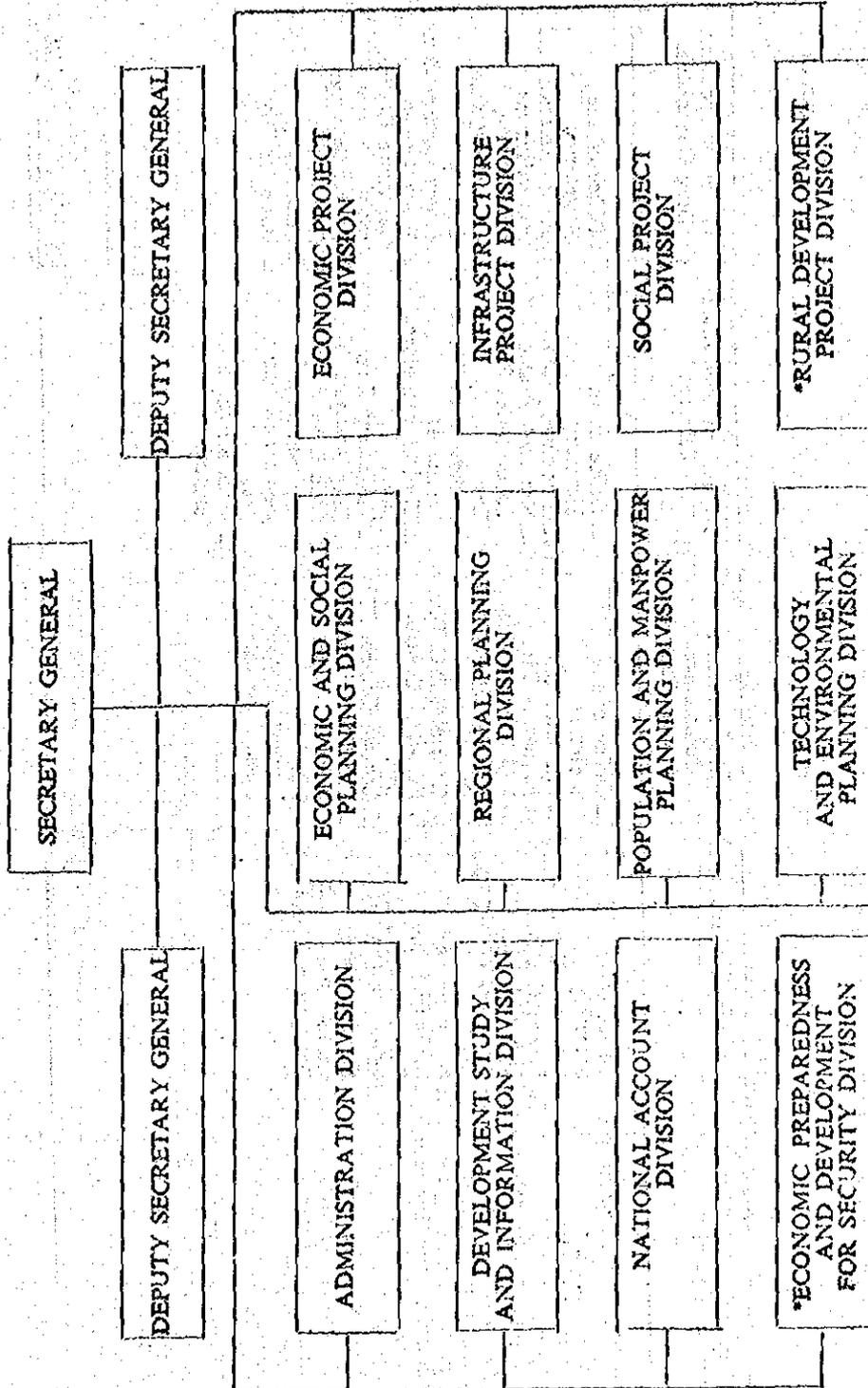


List of National Development Projects

1. Provincial Health Care Project
2. Urban Health Care Project
3. Health Manpower Development and Training Project
4. Planning, Management, and Information System Development Project
5. Pharmaceutical Production and Supply System Project
6. Health Service Financing Project
7. Laboratory Service and Medical Science Research Project
8. Environmental Health Project
9. Malaria and Vector Control Project
10. Minority Group Services Project
11. Health Education Project
12. Family Planning Project
13. Nutrition Project
14. Food and Drug Control Project
15. Occupational Health Project
16. Dental Health Project
17. Prevention and Treatment of Drug Addiction Project
18. Development of Medical Care Project
19. Mental Health and Psychiatric Care Project



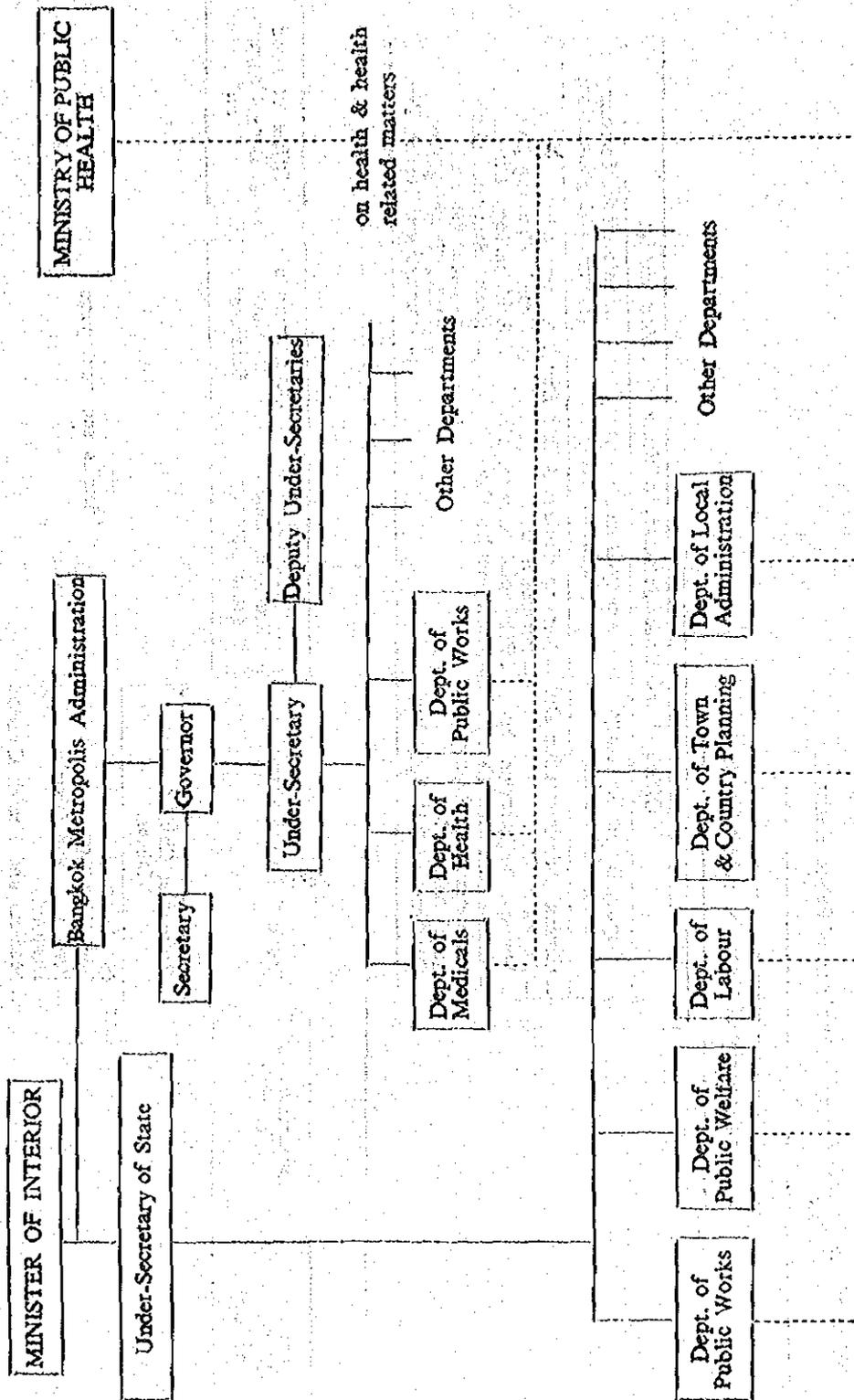
ORGANIZATION CHART OF
OFFICE OF THE NATIONAL ECONOMIC AND SOCIAL DEVELOPMENT BOARD



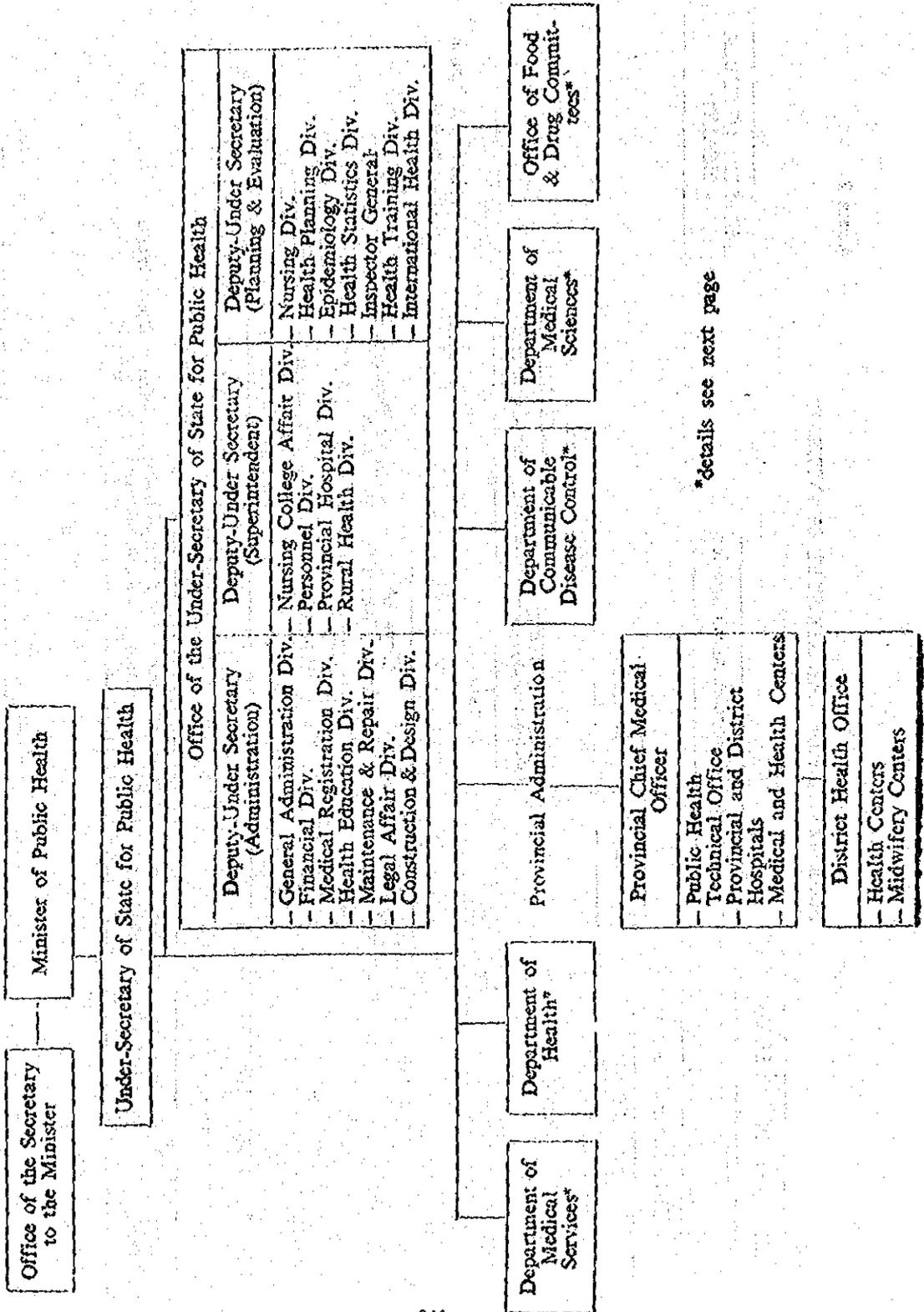
*DIVISIONS ARE UNDER CONSIDERATION

<p>Department of Medical Services</p> <ul style="list-style-type: none"> - Office of the Secretary - Financial Div. - Personnel Div. - Technical Div. - Mental Health Div. - Children's Hospital - Thanyarak Hospital - Prasart Neurological Hospital and Institute - Mental Deficiency Hospital - Lerd Sin Hospital - Srithanya Hospital - Buddhist Monk's Hospital - Somdej Chaophraya Hospital - Women's Hospital - Institute of Pathology - National Cancer Institute - Institute of Dermatology 	<p>Department of Health</p> <ul style="list-style-type: none"> - Office of the Secretary - Financial Div. - Personnel Div. - Dental Health Div. - Rural Water Supply Div. - Nutrition Div. - Sanitation Div. - Family Health Div. - School Health Div. - Environmental Health Div. - Occupational Health Div. 	<p>Department of Communicable Disease Control</p> <ul style="list-style-type: none"> - Office of the Secretary - Financial Div. - Personnel Div. - V.D. Control Div. - Malaria Eradication Div. - General C.D.C. Div. - Filariasis Control Div. - Leprosy Control Div. - T.B. Control Div. - Pannarasradura I.D. Hospital - Leprosy Hospital - Chest Hospital 	<p>Department of Medical Sciences</p> <ul style="list-style-type: none"> - Office of the Secretary - Entomology Div. - National Health Laboratories Project Div. - Radiation Protection Services Div. - Clinical Pathology Div. - Toxicology Div. - Drug Analysis Div. - Food & Beverage Analysis Div. - Medical Research Div. - Virus Research Institute 	<p>Office of Food and Drug Committees</p> <ul style="list-style-type: none"> - Office of the Secretary - Public Relation and Advertisement Control Div. - Cosmetic Control Div. - Drugs Control Div. - Psychotropic Substance Control Div. - Food & Beverage Control Div. - Technical Div. - Inspector Div.
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ORGANIZATION OF THE MINISTRY OF INTERIOR



ORGANIZATION OF THE MINISTRY OF PUBLIC HEALTH



*details see next page

