

DIRECTORY OF MAJOR SCIENTIFIC AND TECHNOLOGICAL INSTITUTIONS IN THAILAND

COMPILED BY

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FOREWORD

Owing to the limited time of approximately two months we felt uneasy in the beginning that we might not be able to compile sufficient material for this directory. It is fortunate for us to find out that a similar type of compilation in Thai language with the name of each institution in both Thai and English under the translated title of "Directory of Research Institutions, B.E. 2524 (A.D. 1982)" is being processed for publication by the National Research Council.

Due credit goes to our associates at the National Research Council for placing a draft copy of the above-mentioned work at our disposal, thus considerably relieving us from the heavy load of collecting data directly from the original sources. We also wish to express our sincere thanks to our friends who contributed additional information to improve our presentation.

Since we have produced this directory in a hurry as mentioned above, we admitted that it needs improvement. Any suggestion for upgrading this first edition will be most welcomed and gratefully incorporated into the second edition, if occasion permits.

Pradisth Cheosakul

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October 1983

ABBREVIATIONS

A.	= Amphoe	K.	= Khet
Agr.	= Agriculture	K.A.	= King Amphoe
Anat.	= Anatomy		
Anth.	= Anthropology	Mat.	= Mathematics
Arch.	= Archeology	Med. Sci.	= Medical Science
Archi.	= Architecture	Met.	= Meteorology
		Mar. Sci.	= Marine Science
Bio.	= Biology	Microbio.	= Microbiology
Biochem.	= Biochemistry	Med. Tech.	= Medical Technology
Bot.	= Botany	Man.	= Management
Bus. Adm.	= Business Administration	Min. Eng.	= Mining Engineering
C.	= Changwat	Nutr.	= Nutrition
Chem.	= Chemistry		
Cit. Plan.	= City Planning	Occup. Health	= Occupational Health
Dent.	= Dentistry	Pharm.	= Pharmacy
		Philo.	= Philosophy
Eco.	= Economic	Physio.	= Physiology
Edu.	= Education	Phys.	= Physics
Eng.	= Engineering	Phy. Sci.	= Physical Science
Env.	= Environment	Plan.	= Planning
		Psych.	= Psychiatry
Fish.	= Fishery	Prod. Design	= Products Design
For.	= Forestry	Pop.	= Population
Food Tech.	= Food Technology	Pub. Adm.	= Public Administration
		Pub. Health	= Public Health
Geo.	= Geology	Rad. Phy.	= Radiophysics
Geoph.	= Geophysic	Rad. Chem.	= Radiochemistry
		Rad.	= Radiology
Health Adm.	= Health Administration	Soc.	= Sociology
Hyd.	= Hydrology	S. & T.	= Science & Technology
Hygi	= Hygiene		
Home Econ.	= Home Economic	T.	= Tambol
		Vet. Sci.	= Veterinary Science
		Weed Cont.	= Weed Control

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ANNEX I	

MAJOR SCIENTIFIC AND TECHNOLOGICAL INSTITUTIONS IN THAILAND

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
<p><u>I. PUBLIC SECTOR</u></p> <p><u>1. MINISTRY OF DEFENSE</u></p> <p><u>1.1 The Supreme Command Headquarters</u></p> <p><u>1.1.1 Directorate of Education and Research, Military Research and Development Center</u></p>	<p>175 Pra Ram 4 Rd., K. Phra Khanong, Bangkok Metropolitan 10110 Tel: 391-0111</p>	124	24	<p>871,271.70 (1980) 950,000 (1981) 60,000 (1981) U.S. Component Armed Forces Research Institute of Med. sci.</p>	<p>Investigation, research, analysis, evaluation, design, test and development of weapons and armaments; technique of organizing military strategic units, and the conventional principles of the armed forces according to the environment in order to enhance the capability of each military unit to function efficiently and to contact other research institutions for the purpose of maintaining national security. S & T, Eng. and Soc.</p>	14
<p><u>1.1.2 Armed Forces Research Institute of Medical Sciences</u></p>	<p>315/6 Rajvithi Rd., Bangkok Metropolitan 10400 Tel: 281-8315</p>	124	24	<p>871,271.70 (1980) 950,000 (1981) 60,000 (1981) U.S. Component Armed Forces Research Institute of Med. sci.</p>	<p>Planning of projects, coordination, direction, analysis and research on Med. sci.; compilation of data, information, results of military Med. sci. research; publication of handbooks and documents; organization of Med. exhibitions; and training of personnel to support the medical service of the armed forces. Med. sci.</p>	25

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
1.2 Royal Thai Army 1.2.1 Veterinary Department, <u>Laboratory and Technical Division</u>	94 Moo 3, Taharn-bok Rd., T. Tham Sala, A. Muang Nakhon Pathom, C. Nakhon Pathom Tel: 242-825 Ext. 154	23	5	42,200 (1980)	Study and research on cross-breeding, diseases, medicaments and feed of animals; and on soil, water, fertilizers and animal products. Vet. sci. and Agri.	1
1.2.2 Medical Department 1.2.2.1 Pediatric Division, Pramongkutkloa Hospital	Rajvithi Rd., Bangkok Metropolitan 10400 Tel: 282-8201 - 10	40	13	10,000 (1980) 10,000 (1981), Association of Military Surgeons of Thailand	Treatment and prevention of diseases in patients of 0-4 years old; advice on the care of infants and children; training physicians and nurses before and after graduation; research on new subjects involving diseases or cases of children. Med. sci.	11
1.2.2.2 Obstetrics and Gynaecology Division, Pramongkutkloa Hospital	315 Rajvithi Rd., Bangkok Metropolitan 10400 Tel: 282-8181 Ext. 275			30,000 (1980)	Treatment of patients; study and research; teaching and training nurses, military medical students, interns and house physicians in obstetrics and gynaecology. Med. sci.	2
1.2.2.3 Division of Medicine, Pramongkutkloa Hospital	Rajvithi Rd., Bangkok Metropolitan 10400 Tel: 282-4845		2	20,000 (1980), Fison Co. (Berlin) Jucker Co., Ltd. 30,000 (1981), Sandoz (Thailand) Ltd.	Treatment of patients. Med. sci.	4

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
1.2.2.4 Army Institute of Pathology	315 Rajvithi Rd., Bangkok Metropolitan 10400 Tel: 281-9032	81	7	35,000 (1981), Pfizer International Corp. SA 20,000 (1981), Smith, Kline & French Co.	Research on and diagnosis of abnormal symptoms, blood, fluid and excretion; production, procurement, stocking and distribution of pathological implements vaccines, sera, plasma and parenteral solutions to support the Medical Corporations of the Army. Med. sci. Medical education and research. Med. sci. and Nutr.	7
1.2.2.5 Pramongkutkloa Medical College	Rajvithi Rd., Bangkok Metropolitan 10400 Tel: 282-8070					7
1.2.3 The Armed Forces Industrial Department	Soi 42 Sukumvit Rd., Bangkok Metropolitan 10110 Tel: 391-7644	275			Research, analysis and production of drugs and medicaments to supply the Ministry of Defense and other government organizations. Chem. and Pharm.	8
1.3 Royal Thai Navy 1.3.1 Naval Science Department, Research Division	6 Wangderm Rd., K. Bangkok Yai, Bangkok Metropolitan 10600 Tel: 465-1296	15	6		Study, research and development of modern science and technology; comparing standards of materials by means of technical and practical evaluation; provision of scientific advice to various units of the Royal Thai Navy. Bio., Chem., Phys. and Math.	13

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher (s)			
1.3.2 <u>Hydrographic Department</u> <u>Oceanographic Division</u>	2 Aroon-amarin Rd., K. Bangkok Yai, Bangkok Metropolis 10600 Tel: 466-1180 Ext. 4773	43	3	59,010,340 (1980) 25,784,820 (1981)	Survey and research on biological, chemical, geological, physical and naval oceanography. Bio., Chem., Geo. and Phys.	5
1.4 <u>Royal Thai Air Force</u> 1.4.1 <u>Directorate of Medical Service, Preventive Medicine Division</u>	171 Phaholyothin Rd., K. Bangkok, Bangkok Metropolis 10220 Tel: 523-6151 Ext. 2784	71	7		Promoting the health of Air Force personnel and students, especially the ground crews; providing check and advice on prevention and control of diseases, etiology, environmental sanitation by the means of laboratory and serum tests. Med. sci., Hygi. and Env.	3
1.4.2 <u>Directorate of Education and Training, The Faculty of the Royal Thai Air Force Academy</u>	171/1 Phaholyothin Rd., K. Bangkok Bangkok Metropolis 10220 Tel: 523-6151 Ext. 2581	121	10	30,000 (1981)	Administration and supervision of the education in the Royal Thai Air Force Academy so as to maintain it on the same standard as that of the universities inside and outside of Thailand. Edu., Eng., Math, and Soc.	3

Name of Institutions	Location	Staff		Budget (Baht)	Activities Field of Research	No. of Res. Proj.
		Total	Researcher(s)			
<p>2. <u>MINISTRY OF AGRICULTURE AND COOPERATIVES</u></p> <p>2.1 <u>Office of the Permanent-Secretary of State</u></p> <p>2.1.1 <u>Central Region Agricultural and Cooperatives, Chai Nat</u></p>	<p>Chai Nat - Sing Buri Rd., T. Luang, A. Sanphaya, C. Chai Nat Tel: 411-021</p>	60	28	<p>6,821,500(1980) 8,068,800(1981)</p>	<p>Function as a center of information on Agriculture and cooperatives for the use in projects on development of diversified agriculture and for provision of service to government agencies, agriculturists and interested persons; cooperation with the National Economic and Social Development Board in setting up the guideline for development of regional agriculture and cooperatives; research and field experiment on mixed cropping especially in the development of diversified agriculture; function as a center for coordination with the regional government agencies and others. Agr., Eco. and Soc.</p>	54

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
2.2 <u>Regional Agriculture</u>						
2.2.1 <u>Northeastern Region Agricultural and Cooperatives Centre, Khon Kaen</u>	Khon Kaen - Kosum Phaisai Rd., T. Tha Phra, A. Muang Khon Kaen, C. Khon Kaen Tel: 226-704	351		12,117,300(1980) 14,036,600(1981)	Coordination in planning joint operation; evaluation of research and development conducted by the Ministry of Agriculture and Cooperatives agencies in the Northeast; experiment, demonstration and training in agriculture and cooperatives; planning operation of integrated development; development and conservation of natural resources. Agr. and Vet. sci.	196
2.2.2 <u>Experimental and Demonstration Farm for Irrigation Agriculture</u>	Paisahaskun Rd., T. Nua, A. Muang Kalasin, C. Kalasin Tel: 811-112	15	8	455,000(1980) 500,000(1981) 500,000(1980), FAO	Planning for experimental and demonstration farm for modern irrigation agriculture in C. Kalasin and in the areas of accelerated productivity of the Northeast in cooperation with the Department of Agricultural Extension; Planning of research and experiment in order to obtain data for solving problems in irrigation areas of the Northeast; compilation of data, coordination, promotion of occupational development of villages designated for volunteer self-development and-protection (หมู่บ้านพัฒนา อ.พ.ด. อสาพัฒนาจังหวัดขอนแก่น) in C. Kalasin and cultivation in the irrigation areas of the Northeast. Agr.	45

Name of Institutions	Location	Staff		Budget(Baht)	Activities Fields of Research	No.of Res. Proj.
		Total	Resear- cher(s)			
2.2.3 <u>Demonstration Farm Phetchaburi</u>	77 Moo 8, T. Tha Yang, A. Tha Yang, C. Phetchaburi	17	5	152,800(1980) 192,800(1981)	Function as a centre for development of regional agriculture and cooperatives, coordination in planning and joint operation, manpower supplement, evaluation of operations conducted by the Ministry of Agriculture and Cooperatives agencies in six Western Changwats, namely, Suphan Buri, Kanchanaburi, Samut Sakhon, Samut Songkhram, Phetchaburi and Prachuap Khiri Khan Agt.	66
2.2.4 <u>Royal Rain - Making Research and Development Institute</u>	50 Ngarm Wong Wan Rd., K. Bangkhen, Bangkok Metropolis 10900 Tel: 579-4533 - 4	200	15	56,978(1981)	Technical research on and development of the procedure for the advancement of royal rain - making operation in conjunction with the actual royal rain - making operation; improvement of the atmosphere and environment to suit both economic and social aspects of agriculture; experiment on modern, atmosphere - related agriculture such as forestation, seed-sowing, etc. in conjunction with the royal rain - making operation. Bio., Chem., Geo., Hyd., Met., Eco. and Soc.	5

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
2.3 <u>The Royal Irrigation Department</u>						
2.3.1 <u>Operation and Maintenance Division, Experimental Research on Water for Agricultural Project</u>	811 Sam Sen Rd., K. Dusit, Bangkok Metropolitan 10300 Tel: 241-4794	33	5	2,671,500(1980) 1,570,900(1981)	Study and research on the consumptive use of water by plants and on the equipment for this purpose. Agr.	67
2.3.2 <u>Research and Laboratory Division</u>						
2.3.2.1 <u>Weed Control Laboratory Branch</u>	Tiwanond Rd., A. Pak-Kret, C. Nonthaburi Tel: 588-4551 Ext.285	5	3	105,000(1980) 105,000(1981)	Study, research and experiment on the methods of preventing and controlling weed growth in the irrigation systems. Agr., Bio. and Weed cont.	4
2.3.2.2 <u>Concrete and Construction Material Laboratory</u>	78 Tiwanond Rd., A. Pak-Kret, C. Nonthaburi Tel: 588-4551 Ext.445	3	1		Test on concrete and construction material for the other divisions of the Royal Irrigation Department, test on industrial products for Thai Industrial Standards Institute; check on the result of concrete construction for various projects in the Royal Irrigation Department and provision of advice on the same; study and research on various problems arising in the construction work. Eng. and Phys.	4

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
<u>2.4 Department of Fisheries</u> <u>2.4.1 Brackish - Water Fisheries Division</u> 2.4.1.1 Aquaculture Research	Phaholyothin Rd., K. Bangkhun, Bangkok Metropolis 10900 Tel: 579-4496	21	14	1,306,760(1980) 1,591,700(1981)	Research on the techniques of hatching nursing and culturing aquatic animals along the coast; culture of fishes and other aquatic animals for breeding; study on and search for the kind and quantity of feed for the culture of aquatic animals; controlling pest and diseases of brackish - water fish. Fish.	20
2.4.1.2 Aquaculture Resources Survey	ditto Tel: 579-3682	21	14	1,257,480(1980) 1,687,380(1981)	Survey of and research on the fertility and the change of the ecological system, and the zones suitable for the culture of animals; survey of economic aquatic flora; analysis of the land condition in order to learn the background and manner of life sustenance in nature; study, analysis and comparison of fauna and flora occurring in brackish water of Thailand. Fish.	13

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Resear- cher(s)			
2.4.1.3 Coastal Zone Development	ditto Tel: 579-3682	1	1	643,500(1980) 750,300(1981)	Study and analysis of fisheries data; evaluation of the conditions suitable for fisheries in each locality to be employed as a guideline for classification of coastal forest and mud flat into fishery reserve and development zones; selection of brackish-water fish for culture with the aim of attaining their highest productivity. Fish.	2
2.4.1.4 Songkhla Coastal Aquaculture Center	Kao-san Rd., T. Kao-roop-chang, A. Muang Songkhla, C. Songkhla Tel: 311-895	33	17	5,407,000(1980) 11,137,600(1981)	Research and experiment on the culture of aquatic animals along the coast; production and breeding economic aquatic animals; survey of suitable zones for the culture of aquatic animals along the coast; provision of advice, training and demonstration on the culture of aquatic animals for fishermen and the public. Agr., Bio. and Eco.	89
2.4.1.5 Phangnga Small Scale Fisheries Project	Baan Tai Charng Municipal School, A. Muang Phangnga, C. Phangnga	2	2	474,880(1980) 616,800(1981) South China Sea Project 1,700,000(1980) 810,000(1981)	Demonstration on aquatic animal culture in bamboo basket (tied to a post and floating up and down with the tide) as well as enclosure; demonstration on aquatic animal preservation; support to cooperatives of aquatic animal culture; survey on sources of aquatic animals and study on the distribution as well as the abundance of aquatic animals; study on the social and economic aspects of small scale fisheries in order to improve their status. Fish.	4

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
2.4.1.6 Chanthaburi Fisheries Station	13 T. Bangchan, A. Khlung, C. Chanthaburi	43	5	2,446,710(1980) 4,467,400(1981)	Survey, research and experiment on zones for brackish-water animal culture production and breeding; promotion of brackish-water animal fisheries and improvement of water systems. Bio.	17
2.4.1.7 Prachuap Khiri Khan Fisheries Station	448 Klong-Warn Rd., A. Muang Prachuap Khiri Khan, C. Prachuap Khiri Khan Tel: 611-398	19	8	3,352,850(1980) 3,519,400(1981)	Study, research and experiment on all brackish-water animals, especially those having economic significance. Bio. and Agr.	17
2.4.1.8 Phuket Fisheries Station	Sailampanwa Rd., A. Muang Phuket, C. Phuket Tel: 076-211689	20	9	1,914,040(1980) 2,373,200(1981)	Survey, research and experiment on zones for brackish-water animal culture, production and breeding; promotion of brackish-water animal fisheries and improvement of water systems in C. Rayong, Phangna, Phuket and Satun. Agr. and Bio.	13
2.4.1.9 Rayong Fisheries Station	T. Banpae, A. Muang Rayong C. Rayong	19	9	1,527,010(1980) 1,986,400(1981)	Survey, research and experiment on zones for brackish-water animal culture, production and breeding; promotion of brackish-water animal fisheries and improvement of water systems in C. Chon Buri, Rayong and Chanthaburi. Agr. and Bio.	19
2.4.1.10 Samut Sakhon Fishery Station	A. Muang Samut Sakhon, C. Samut Sakhon	13	3	2,676,285(1980) 1,887,000(1981)	Survey, research and experiment on zones for brackish-water animal culture, production and breeding; promotion of brackish-water animal fisheries and improvement of water systems in C. Samut Sakhon, Samut Songkhram and Samut Prakan Fish.	18

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Resear- cher (s)			
2.4.1.11 Satun Fishery Station	A. Muang Satun, C. Satun P.O. Box 12	18	10	5,599,860(1980) 8,259,300(1981)	Survey, research and experiment on zones for brackish-water animal cul- ture, production and breeding; promo- tion of brackish-water animal fishe- ries, and improvement of water systems in C. Satun and Narathiwat. Fish.	23
2.4.1.12 Surat Thani Fishery Station	T. Takientong, A. Kanchanadit, C. Surat Thani	10	1	2,359,930(1980) 1,974,300(1981), Fund for support to agriculture 150,280(1980) and 92,600(1981)	Survey, research and experiment on zones for brackish-water animal cul- ture, production and breeding; promo- tion of brackish-water animal fishe- ries, and improvement of water systems. Agri. and Bio.	10
2.4.2 Fresh-water Fisheries Division						
2.4.2.1 Kanchanaburi Fisheries Station	Sangchutoe Rd., T. Mongchoop, A. Muang Kanchana- buri, C. Kanchanaburi	11	3	10,000(1980) 12,000(1981)	Research and experiment on fish breeding; improvement of water systems and provision of advice and training for agriculturists in C. Ratchaburi, Phetchaburi, Prachuap Khiri Khan and Kanchanaburi. Fish.	14

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
2.4.3 <u>National Inland Fisheries Institute</u>	50 Phaholyothin Rd., K. Bangkhen, Bangkok Metropolis 10900 Tel: 579-2151	93	45	9,918,800(1980) 11,276,800(1981)	Applied research on fresh-water animals; provision of training for government officials and people interested in fresh-water animal culture; management of fresh-water fisheries in water systems; dissemination of information on fresh-water animal conservation Agr., Bio., Chem. and Fish.	104
2.4.4 <u>Exploratory Fishery Division</u>	Sri-Samut Rd., A. Muang Samut Prakan, C. Samut Prakan Tel: 395-0221 - 2	155	22	13,990,400(1980) 16,624,300(1981) National Research Council 501,940(1980) and 690,000(1981)	Survey and research on the full and correct use of fisheries resources both inside and outside Thai territorial waters. Agr., Bio., Chem., Geo. and Phys.	4
2.4.5 <u>Marine Fisheries Division</u>	89/1 Chareernkrung Rd., K. Yan Nawa, Bangkok Metropolis 10120 Tel: 286-1549	168	121	34,737,500(1980) 39,284,500(1981)	Management of marine fisheries in order to best suit and benefit the economic and social aspects as well as to conserve plant and animal resources; promotion of the increase in marine animal productivity to meet the requirement for internal consumption and external demand. Bio.	43

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
2.4.6 Phuket Marine <u>Biological Centre</u>	51 Sakdidet Rd., A. Muang Phuket, C. Phuket Tel: 212-357	29	17	8,009,000(1980) 17,815,800(1981), National Re- search Council 109,100(1980) 173,100(1981), Office of the National Envi- ronment Board 216,170(1980) 144,650(1981), Dept. of Technical and Economic Co- operation 68,000(1980), 81,600(1981), DANIDA 388,500(1980) 388,500(1981).	Provision of training and education in marine science for university students and junior scientists; survey and research on marine biology in the Andaman Sea region conducted normally by the Center alone and occasionally in cooperation with international organizations Bio. and Mar. Sci.	32

Name of Institutions	Location	Staff		Budget (Baht)	Activities Field of Research	No. of Res. Proj.
		Total	Researcher (s)			
2.5 <u>Department of Livestock Development</u>						
2.5.1 <u>Animal Husbandry Division</u>	24 Phaya Thai Rd., K. Phaya Thai, Bangkok Metropolis 10400 Tel: 252-6943	373	19		Research and experiment on stocking animals, improving animal strains and their feed; cross-breeding and propagating animals of good strains for sale to agriculturists and government agencies; dissemination of and training in the technique of upgrading animal strains. Vet. sci. and Agr.	74
2.5.2 <u>Division of Veterinary Research, Section of Veterinary Research</u>	Phaya Thai Rd., K. Phaya Thai, Bangkok Metropolis 10400 Tel: 252-6745	12	10		Study and research on animal diseases for the promotion of animal raising, the prevention of animal epidemics, and the treatment of animal diseases, and the control of epidemics spreading between man and animal. Vet. sci.	29
2.5.3 <u>National Swine Research and Training Center</u>	Phaholyothin Rd., K. Bangkhen, Bangkok Metropolis 10900	24	22	9,415,900 (1980) 10,796,900 (1981)	Improvement and dissemination of good-breeding swine for other government agencies; research on the method of swine raising in line with the technical principle for the environment of Thailand; promotion of swine raising and provision of training on swine raising for agriculturists, officials of other government agencies and interested people. Agr.	32
2.5.4 <u>Northeast Livestock Development Project</u>	T. Taphra, A. Muang Khon Kaen, C. Khon Kaen Tel: 237-794	251	7	3,473,360 (1981)	Increase of livestock productivity by improving the yield and nutritive value of pasture land and improving the quality of native livestock in order to increase meat and milk production; extension of animal disease prevention and establish-	21

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Resear- cher (s)			
2.6 <u>The Royal Forest Department</u>					ment of credits for farmers to produce livestock. Agr.	
2.6.1 <u>Planning Division</u>	Phaholyothin Rd., K. Bangkhen, Bangkok Metropolis 10900 Tel: 579-2821	39	6	842,800 (1980) 905,500 (1981)	Study and research on forest economic, forest statistics; planning and evalua- tion of research projects; allotment of the budget and determination of policy for the study and followup of the work plan Eco. and For.	13
2.6.2 <u>Forest Management Division</u>						
2.6.2.1 Forest Fire Control	Phaholyothin Rd., K. Bangkhen, Bangkok Metropolis 10900 Tel: 579-1151-60 ext. 251	7	3	150,000 (1980) 345,600 (1981)	Center for training in and planning of forest fire prevention; control and encouragement of the concessionaires in forest-fire prevention according to the conditions stipulated by the Department of Forestry in the method of operation; survey, study and research on forest fires occurring in the whole country; and compilation of records on these fire incidents for analysis, planning and improvement of preventing and extin- guishing forest fires. For.	3
2.6.2.2 Forest Mapping and Remote Sensing Sub- Division, Remote Sensing Sector	ditto Tel: 579-4195	8	4	597,201 (1980) 560,900 (1981)	Technical operation in the application of satellite imageries to data recording and forest mapping. For.	3

Name of Institutions	Location	Staff		Budget (Baht)	Activities Field of Research	No. of Res. Proj.
		Total	Researcher (s)			
2.6.3 <u>Silviculture Division</u> 2.6.3.1 Botanical Section	ditto Tel: 579-1534	27	5	300,000 (1980) 300,000 (1981)	Survey and research on the fauna including medicinal, edible, toxic, essential oil and economic plants in Thailand; establishment of botanical gardens and arboretum for education and recreation Bot.	7
2.6.3.2 Subdivision of Silvicultural Research	ditto Tel: 579-1151-60	54	36	17,049,800 (1980) 24,870,400 (1981)	Improvement and silviculture of wild plant species which have economic significance in order to maintain good quality, fast growing, disease resistant, insect pest resistant strains; investigation on the methods of forest maintenance and management for their field application. Agr.	40
2.6.4 <u>Forest Products Research Division</u>	ditto Tel: 579-1196	66	46	3,462,800 (1980) 3,239,300 (1981)	Research on the most efficient use of wood and forest products; compilation of data and improvement of their accuracy for their application in the national economic and social development. Agr. Bio., Chem., Phys., Math., Eng. and Eco.	27
2.6.5 <u>Watershed Management Division</u> 2.6.5.1 Research Sub-Division	ditto Tel: 579-2810	17	17	2,039,900 (1980) 2,583,800 (1981)	Research on planning of watershed conservation and development; control of soil erosion so as to reduce sedimentation in streams and, therefore, to prevent them seriously flooding over the top soil during the rainy season; promotion of economic and social development	38

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher (s)			
2.6.6 <u>Wildlife Conservation Division</u>					and improvement of the people's living standards by proper use of natural resources, i.e., management of the water basin in harmony with the use of land. Agr., Bio., Bot., Chem., Phys., Geo., Hyd. and Soc.	
2.6.6.1 Technical Section	ditto Tel: 579-4847	8	7	100,000 (1981)	Study and research on the history, biology and ecology of wildlife in Thailand; survey on the wildlife in the sanctuary; cooperation with the control and suppression authority in checking the types of live and stuffed wildlife upon request whether they could be legally exported. Bio.	12
2.6.7 <u>Si Racha Divisional Forest Office</u>						
2.6.7.1 Mangrove Forest Section	16 Sukhumvit Rd., A. Si Racha, C. Chon Buri Tel: 311-234	7		40,000 (1980) 24,000 (1981)	Planning as well as improving the mangrove forest projects in the regions of Chon Buri, Rayong, Chanthaburi and Trat; study and research on the problems of mangrove forest; control over the markings on the forest line and on the forest lots to be logged; determination of mangrove forest productivity; inspection of logging, provision of advice on mangrove forest silviculture as stipulated in the concession, control over charcoal production and movement; study and research on mangrove forest problems. For.	2

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher (s)			
2.6.8 <u>Pattani Forest Division</u>	33 Narintaraj Rd., A. Muang Pattani, C. Pattani Tel: 349-146	40	4		Research and experiment on forestry; provision of advice for the governor of changwat, and the chief of amphoe; control over the operation of forest officials in both the region and area of responsibility (C. Pattani, Yala and Narathivat); control of logging in compliance with the concession as assigned to the Pattani Forest Division. Agr. and Bio. For.	2
2.6.9 <u>Nakhon Si Thammarat Forest Division</u>	C. Nakhon Si Thammarat					1
2.7 <u>Land Development Department</u>						
2.7.1 <u>Soil and water Conservation and Management Division</u>	Phaholyothin Rd., K. Bangkhen, Bangkok Metropolis 10900 Tel: 579-0111	595	129	17,307,800 (1980) 20,294,200 (1981)	Research and experiment on soil development, provision of advice and assistance in efficient use of soil for agriculturists, conservation of water basin which serves as watershed and represents the most valuable natural resource; dissemination of the research findings for the use in improving farm land to the desirable stage. Agr.	75
2.7.2 <u>Soil Survey Division</u>	ditto	326	23	23,502,300 (1980) 21,095,200 (1981)	Survey of the soil resource in the country, preparation of soil map in order to show the distribution of each soil type whether it is suitable for varying applications; research on soil classification, structure, origin and other soil properties which affect the use of soil. Agr.	66

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
2.7.3 <u>Land Classification Division</u>	ditto Tel: 579-0111 Ext. 212				Survey of land, its classification according to the quality and condition as well as the problems and factors limiting its use in agriculture, study on the state of land use and holdings in order to report and advise on the use of land in the country in the appropriate proportion. Agr., Geo. and Soc.	7
2.7.4 <u>Soil Analysis Division</u>	ditto Tel: 579-4430				Agr. and Geo.	3
2.7.5 <u>Office of Coastal Land Development</u>	Ratchadamnern Rd., K. Pom Prap Sattru Phai, Bangkok Metropolis 10100 Tel: 281-8730	17			Direction and coordination of coastal land development in cooperation with related government organizations; followup and evaluation of the result from each project; provision of services for farmers in coastal land. Agr., Eng., Eco., Bus. Adm. and Soc.	2
2.7.6 <u>Thai-Australia World Bank Land Development Center</u>	Chiangmai-Lampang Rd., T. Wiangtarn, A. Hang Chat, C. Lampang	30	11		Research on methods suitable for field crop plantation system, soil improvement, soil conservation, and water in the middle terraced land fed by rain in the north of Thailand so that farmers may apply the results of research in transforming lands into permanent agricultural areas. Agr.	52
2.8 <u>Department of Agricultural Extension</u>						
2.8.1 <u>Seed Division</u>	2143/1 Phaholyothin Rd., K. Bangkhen, Bangkok Metropolis	120	20	25,000 (1980) 35,000 (1981)	Planning of plant production and stocking of plants to fill the need of farmers for propagation as well as	

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
2.8.2 <u>Planning and Special Projects Division</u>	10900 Tel: 579-3820 Phaholyothin Rd., K. Bangkok Bangkok Metropolis 10900 Tel: 579-3741	18	18	World Bank, 2,951,000 (1980)	checking and controlling of the quality of seeds produced to meet the standards. Agr. Planning and improvement of agriculture extension system suitable for the economic condition of the country, analysis of agricultural productivity and market, contact on technical matters with foreign organizations, and evaluation of projects to compile problems and difficulties. Agr.	2
2.9 <u>The Cooperatives Promotion Department</u> 2.9.1 <u>Office of Agricultural Economics</u> 2.9.1.1 Evaluation Division	Kasetsart Uni. Campus, Phaholyothin Rd., K. Bangkok, Bangkok Metropolis 10900 Tel: 579-4166	151			Study, analysis and evaluation of the results of investment in agricultural projects, followup of the progress of these projects, compilation of information on the farming business of farmers for its use as data base in development planning, provision of information service with regard to the market for produce in various regions and participation in cooperative agricultural projects. Agr. and Eco.	8
2.10 <u>Department of Agriculture</u>	Kasetsart Uni. Campus, K. Bangkok, Bangkok Metropolis	1,2642	1400	369,663,890 (1982)	Research on crop production in all aspects, e.g., rice breeding, agronomy, horticulture, sericulture, rubber	

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Prof.
		Total	Researcher(s)			
<p>10900 Tel: 579-1515 579-0146-8 579-2153</p> <p>2.10.1 <u>Planning Division</u></p>	ditto			<p>USAID \$84,000 (1978-81)</p>	<p>planting, plant pathology, entomology, seed technology, crop quality and standard control, agricultural chemistry, seed storage, pest control, farm machinery development, seed multiplication, regulations on plant materials import and export, and regulations on agricultural chemicals trade.</p>	
<p>2.10.2 <u>Rice Division</u> 2.10.2.1 <u>Technical Branches:</u> hamely, rice genetics lowland rice breeding, deep-water rice breeding, disease and insect-resistant rice breeding, rice culture improvement and seed storage, rice grain standard and quality, rice fertilization, and rice seed multiplication.</p> <p>2.10.2.2 <u>Experimental Stations</u> 21</p>	ditto			<p>IDRC, C\$380,000 (1979-81)</p>	<p>Cooperative work in project planning, foreign relation, budget, investigation, evaluation, annual research report: study on statistical technique, analysis on several crops statistical technique training for technicians.</p> <p>Research on rice breeding for high productivity and quality, rice culture improvement, rice fertilization.</p> <p>To carry out research works and to function as a service center where farmers can secure information and advice.</p>	

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
<p>2.10.3 <u>Field Crop Division</u> 2.10.3.1 <u>Technical Branches:</u> corn and sorghum, cotton, fiber crop, oil seed, root crop, miscellaneous crop, seed technology. seed production, and soils and fertilizer.</p> <p>2.10.3.2 <u>Experimental Stations:</u> 21</p>	ditto			World Bank \$925,000 (1977-82)	<p>Research on the breeding and agronomy of all economic field crops, and on improvement of crop productivity through studies of soils, fertilizer, seed technology; dissemination of research results and distribution of high quality seeds to farmers through the Department of Agricultural Extension.</p>	
<p>2.10.4 <u>Horticulture Division</u> 2.10.4.1 <u>Technical Branches:</u> vegetable crop, fruit crop, ornamental plant, soil and fertilizer, other horticultural crop, and oil palm.</p> <p>2.10.4.2 <u>Experimental Stations:</u> 10</p>	ditto				<p>Research and experiment on the variety improvement, cultural practices, fertilizer usage and post-harvest physiology of economically important horticultural crops; extension of the research results</p>	
<p>2.10.5 <u>Sericultural Division</u> 2.10.5.1 <u>Experimental Stations:</u> 12</p>	ditto				<p>Research and experiment on mulberry rearing, silk rearing and silk reeling; provision of training for extension officers and farmers in several levels. The Division operates the Sericulture Research and Training Center at Nakhon Ratchasima</p>	

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
2.10.6 Rubber Division 2.10.6.1 Technical Branches: rubber service and rubber research. 2.10.6.2 Rubber Research Center: (1) dealing with administrative and experimental station, rubber agronomy, rubber economics, rubber development, rubber training, and tech- nical service. 2.10.6.3 Experimental Sta- tions: 19	ditto			JICA \$750,000 (1979-81)	Research on and development of rubber industry in Thailand such as promotion of high yielding strains, development of improved planting methods, maintenance of plantation; tapping system, rubber processing, dissemination of technical informations, demonstration of modern cultivation practices and provision of technical training for rubber planters; coordination of national rubber organizations and cooperation with international organizations.	
2.10.7 Agricultural Engineering Division 2.10.7.1 Technical Sections: machine repair and maintenance, work- shops and servicing, engineering storage and processing, farm machinery, research and testing, and agricultural engi- neering training.	ditto			UN \$2,000,000 (1979-81)	Study, research, development and demonstration of machineries and tools used in agriculture and small factories of agricultural products; provision of training for young farmers in utilization of the farm machinery; assisting experimental stations in improving their land for research work throughout the year; machine repair and maintenance services.	

Name of Institutions	Location	Staff		Budget (Baht)	Activities Field of Research	No. of Res. Proj.
		Total	Researcher(s)			
2.10.8 Plant Pathology and Microbiology Division	ditto			UNDP/FAO, \$1,192,592 (1977-81) USAID \$500,000 (1978-82)	Research on and development of effective, economical and nonhazardous control measures for major crops in Thailand, exploration of new ways to utilize or to cultivate beneficial microorganisms; provision of technical assistance for other Divisions, such as Agronomy and Rice, in problems related to pathology.	
2.10.8.1 Technical Branches: mycology, rice pathology, seed and post-harvest crop pathology, fruit crop pathology, field crop pathology, oil crop pathology, fiber crop pathology, vegetable and ornamental plant pathology, plant nematology, applied microbiology, and bacteriology and soil microbiology.						
2.10.9 Entomology and Zoology Division	ditto			Germany, \$600,000 (1975-80)	Basic and applied research on problems and control of insects and animals attacking economic crops.	
2.10.9.1 Technical Branches: applied technique research, corn and sorghum insect, rice insect, taxonomy, biological control, applied zoology, cotton insect, le-gume insect, coconut and palm insect, fruit and other horticultural insect, stored grain insect, and pesticide research.						

Name of Institutions	Location	Staff		Budget (Baht)	Activities Field of Research	No. of Res. Proj.
		Total	Researcher(s)			
2.10.10 Agricultural Chemistry Division	ditto			IAEA \$46,000 (1979-81)	Research on many aspects of agricultural chemistry and dissemination of appropriate results for practical field application; provision of service in chemical and physical analysis of soil, aquatic plant pesticides, fertilizers and other agrochemical materials; inspection of pesticides and fertilizers.	
2.10.10.1 Technical Branches: local laboratory, fertilizer analysis, fertilizer research, pesticide analysis, radioisotopes in agricultural research, agricultural chemistry, plant analysis, plant research, soil and water analysis, and soil research.						
2.10.11 Technical Division	ditto			Colombo plan (Japan), \$360,000 (1977-81)	Basic and applied research on botany, plant physiology, crop management, irrigation agronomy, soil science, weed science and crop environment.	
2.10.11.1 Technical Branches: botanical, plant physiology, weed science research, soil science, soil and water research, agronomic management, irrigation agronomy research, and crop environment.						
2.10.11.2 Technical Section: i, i.e. technical exhibitions and publicity						

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
2.10.12 Agricultural Regulatory Division 2.10.12.1 Plant Inspection Stations: 22	ditto				Survey and research on the plants and plant products in accordance with the regulations established under the Plant Quarantine Act of B.E. 2507, the Poisonous Material Act of B.E. 2510, the Fertilizer Act of B.E. 2518, the Seed Act of B.E. 2518, and other authorized acts in order to supervise and to protect agricultural interest resulting in the increased productivity for the farmers.	

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
3. <u>MINISTRY OF COMMUNICATIONS</u>						
3.1 <u>Department of Land Transport</u>						
3.1.1 <u>Transport Safety Division</u>	1032 Phaholyothin Rd., K. Bangkhen, Bangkok Metropolitan 10900 Tel: 278-4189	37	11	1,833,150(1980) 2,329,500(1981)	Provision of instruction and training for transport students and the Department's personnel; setup of training courses and organization of seminars for all people concerned. Eng., Eco. and Soc.	1
3.2 <u>Department of Highways</u>						
3.2.1 <u>Materials and Research Division</u>	Si Ayutthaya Rd., K. Phaya Thai, Bangkok Metropolitan 10400 Tel: 281-6211	18	5	644,705(1980) 819,939(1981)	Research on highway construction materials, transport, highway structures, traffic engineering, and highway maintenance; research and planning on safety, environments in relation with traffic, and transport-engineering; Preparation of standard specifications, and publication of handbooks for use in highway maintenance works, with higher efficiency. Eng.	49
3.3 <u>Post and Telegraph Department</u>						
3.3.1 <u>Planning Division</u>	87 Phaholyothin Rd., K. Phaya Thai Bangkok Metropolitan 10400 Tel: 279-1996	36	3	56,000(1980) 55,200(1981)	Planning of communication work, post and telecommunication; organization as well as coordination of civil communication systems and network so that the systems can replace one another; data collection and analysis; organization of all kinds of communication information	4

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
3.3.2 <u>Office of Communication Research and Development</u>	Phaholyothin Rd., K. Phaya Thai Bangkok Metropolis 10400 Tel: 279-2273	19	1	161,700(1981)	and statistics systems; followup and evaluation of the result of performance in accordance with the policy and preparation of the report on the said result. Eng., Soc. and Pub. Adm. Study and research on Communication technique, standardization and administration of radio frequencies; test on the technical characteristics of communication radio; and development of communication equipments and tools; installation and maintenance of communication radio, and other communication equipments. Eng.	1
3.4 <u>The Meteorological Department</u> 3.4.1 <u>Studies and Research Division</u>	612 Sukhumvit Rd., K. Phra Khanong Bangkok Metropolis 10110 Tel: 391-8631	26	9	1,507,070(1980) 1,331,905(1981)	Study and research on meteorology, geophysics, natural phenomena in relation with meteorology, technical cooperation with other related organizations inside and outside Thailand. Met., Geo., Geoph., Agr., Mat., Edu. and Soc.	6

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
<p>3.4.2 <u>Agrometeorology Division</u></p> <p>3.4.2.1 Agrometeorology analysis Sub-Division</p>	<p>4353 Sukumvit Rd., K. Phra Khanong, Bangkok Metropolis 10260 Tel: 393-1682</p>	10	1		<p>Performance of weather forecast as a service for agriculture by studying the relationship between climate and soil, plants, animals, as well as plant and animal pests so that the climatological condition may be modified and controlled to optimize the growth of plants and animals; analysis of meteorological data for the use in agriculture; cooperation with other institutions inside and outside Thailand in research on specific subjects. Agr. and Bio.</p>	4

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
4. <u>MINISTRY OF INTERIOR</u>						
4.1 <u>The Bangkok Metropolitan Administration</u>						
4.1.1 <u>Bureau of Medical Services</u>	Samsen Rd., K. Dusit Bangkok Metropolitan 10300 Tel: 241-2401	174			Administration of hospitals for all types of patients. Med. Sci.	9
4.2 <u>Thai National Police Department</u>						
4.2.1 <u>The Police General Hospital, Department of Pediatrics</u>	Pra Ram 1 Rd., K. Pathum Wan, Bangkok Metropolitan 10500 Tel: 252-8111	8		The Association of Military Surgeons of Thailand 10,000 (1980), Vejapun-Pharma France 2,000 (1981)	Treatment of pediatric and allergic patients. Med. Sci.	5
4.2.2 <u>The Police General Hospital, Department of Psychiatry and Drug Addiction</u>	ditto	7			Treatment of psychiatric patients research on the problem of drug addiction, organization of training courses for the patients, and advice them to pursue suitable education and occupation. Med. Sci.	

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Resear- cher(s)			
4.3 <u>Department of Public Welfare</u>	130/1 Suthep Rd., A. Muang Chiang Mai C. Chiang Mai Tel: 221-933	41	20	906,900(1980) 1,223,090(1981)	Investigation and research on economics, sociology, education, health and anthropology of hilltribes in the northern part of Thailand; compilation of books, documents and relics on the culture and welfare of all hilltribes in South East Asia; promotion of good understanding between Thai hilltribes and other Thai people. Anth., Agr., Soc. and Edu.	40
4.4 <u>Department of Labor</u>	Ratchaborpit Rd., K. Phra Nakhon Bangkok Metropolis 10200 Tel: 223-1687	4	4		Study and Research on the effect of chemicals in working environments whether the chemicals are present over the limit permissible by law, and analysis of causes of occupational diseases to find ways and means of keeping workers from dangers and, at the same time, in good health; recommendation on appropriate amendment of Chemicals Acts. Chem., Bio and Occup. health.	7
4.5 <u>The Office of Accelerated Rural Department</u>	Ratchasima Rd., K. Dusit, Bangkok Metropolis 10300 Tel: 282-9028	42	40	1,157,555(1980) 1,191,600(1981)	Survey of fundamental information on economics, sociology and drought condition in rural areas; analysis of the said information report and recommendation on the findings. Soc., Agr. and Bio.	13
4.5.1 <u>Research and Evaluation Division</u>						

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
<u>4.6 Department of Town and Country Planning</u> <u>4.6.1 Regional Physical Planning Division</u>	Rama 4 Rd., K. Bangrak, Bangkok Metropolis 10500 Tel: 235-2811	44	14		Operation in accordance with the policy of the Town and Country Planning Office as well as with The National Economic and Social Development Plan, especially, by coordinating regional, sub-regional and provincial development plans in order to prepare future plans for regions, sub-regions and provinces. Eng., Eco., Soc. and Plan.	24

Name of Institutions	Location	Staff		Budget (Baht)	Activities (Fields of Research)	No. of Res. Proj.
		Total	Researcher(s)			
5. <u>MINISTRY OF SCIENCE, TECHNOLOGY AND ENERGY</u> 5.1 <u>Office of the Permanent Secretary of State</u> 5.1.1 <u>Office of Science, Technology and Energy Policy and Planning</u>	Rama 6 Rd., K. Phaya Thai, Bangkok Metropolitan 10400 Tel: 281-4714	20	3	68,000(1981)	Study and recommendation on the national science, technology and energy policy; preparation of science development and man-power plans in line with the national plans; coordination of work plans, analysis of the situation and evaluation of the results of scientific work in all agencies under the jurisdiction of the Ministry. Science in all branches.	3
5.2 <u>Department of Science Service</u> 5.2.1 <u>Research Division</u> 5.2.2 <u>Biological Science Division</u>	ditto Tel: 282-7295 ditto Tel: 282-2901	48	11	85,000(1981)	Study and research on science and technology for application to national economic and industrial development; conduct of scientific research and provision of this service for other government agencies. Scientific service and industrial research Study, analysis, test, and research in biological science field, especially on food and food products as well as animal feed. Chem., Bio. and Agr.	9 10

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
5.2.3 <u>Division of Physics and Engineering</u>	ditto Tel: 282-5830				Phy. Sci., Env. and Eng.	7
5.3 <u>The National Research Council</u>						
5.3.1 <u>Remote Sensing Division</u>	196 Phaholyothin Rd., K. Bangkhen, Bangkok Metropolis 10900 Tel: 579-1121 - 30 Ext. 157	43	7	666,843(1980) 536,440(1981)	Coordination with government agencies and state enterprises, international organizations; exchange of data from remote sensing with the National Aeronautic and Space Administration of the United States; dissemination of knowledge and information on the advancement in natural resource survey by remote sensing analysis of basic data and maintenance of equipments used in the programme; operation of Information Service Centre, Training in the survey by remote sensing and establishment of a ground receiving station for imageries from remote sensing. Agr., For., Geo., Hyd. and Env.	7
5.3.2 <u>National Biological Control Research</u>	50 Phaholyothin Rd., Kasetsart University Campus, K. Bangkhen Bangkok Metropolis 10900 Tel: 579-0113 Ext. 301	25	30	1,215,800(1980) 1,492,300(1981)	Support to and research on the control of plant and animal pests which affect agriculture, medicine and public health; coordination and exchange of technical information with other Government agencies in the conduct of research; collection and evaluation of biological specimens; compilation of technical information and documents for study, investigation, research and dissemination. Agr. and Bio.	29

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
5.4 Office of Atomic Energy for Peace						
5.4.1 Radiation Measurement Division	Vipavadi-Rangsit Rd., K. Bangkhen, Bangkok Metropolitan 10900 Tel: 579-0138 - 9	12	12	532,000(1980) 950,000(1981)	Quantitative measurement of environmental radioactivity due to atomic bomb tests, nuclear development and nuclear technology; survey of environment activity prior to the installation of nuclear power plants; study and research on quantitative radioactivity measurement as well as provision of the service of the said measurement. Rad. Phy. and Rad. Chem.	7
5.4.2 Waste Disposal Division	ditto	14	14	849,716(1980) 2,135,700(1981), IAEA 849,716(1980) and 2,135,700(1981)	Provision of service in the disposal of solid and liquid radioactive residues inside and outside the Office by development of processes and technology in the disposal of solid and liquid radioactive residues in order to increase the efficiency and economy of the service; study and research on the toxicity of pesticide residues, wastes from industrial factories and agricultural produces by nuclear technique; provision of services in the analysis of pesticide residues. analysis of and research on fission products and radioisotopes in drinking water, food and agricultural produces in order to control drinking water standards. Chem., Env. and Rad.	22

name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
5.4.3 <u>Health Physics Division</u>	ditto	12			Control, inspection and establishment of measures in the use of radioactive materials to provide safety for workers and the public; service in overcoming radiation danger due to accidents; study and research on radiation effects; prevention of radiation hazard; development of methods and equipments. Rad. Phy. and Phy. Sci	8
5.4.4 <u>Chemistry Division</u>	ditto	20	17	1,800,000(1980) 1,360,000(1981)	Chemical study, research and development for technical economic and social benefits; provision of service in chemical analysis; application of analysis in the study of resource quality, and in the promotion of agricultural, medical and industrial activities; study of technology and the use of nuclear materials; development of technique and provision of service in dating antiques and geological specimens Chem., Geo., Eng. and Arch.	4
5.4.5 <u>Isotope Production Division</u>	ditto	12	10	10,000(1980)	Production of radioisotopes by the Office's atomic reactor for medical and other applications. Chem.	2

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
5.4.6 <u>Physics Division</u>	ditto	12			Investigation and research in nuclear physics and on the application of isotopes; operation in accordance with the government policy stated in the economic and social development plan by using nuclear technique. Phys.	29
5.4.7 <u>Biological Science Division</u>	ditto	26	19	1,230,800(1980) 1,131,730(1981), IAEA 70,000(1980) and 160,000(1981)	Study and research on the biological application of nuclear energy and radioisotopes for the benefit of agriculture and medicine; control and eradication of insect pests which harass man, animal, plant and other economic crops of the country. Bio. and Agr.	20
5.5 <u>The National Energy Administration</u> 5.5.1 <u>Research and Power Development Division</u>	Rama 1 Rd., K. Pathum Wan, Bangkok Metropolis 10500 Tel: 223-0021 Ext.252	40	11	295,200(1981), Australian Government A\$ 186,500(1981)	Study, research and development of natural renewable energy for use in place of plant and oil; search for ways and means to conserve natural resources; operation of cooperative projects between The Thai and United States governments on energy technology. Eng., Bio., Chem. and Phys.	16

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
5.6 Thailand Institute of Scientific and Technological Research	196 Phaholyothin Rd., K. Bangkhen, Bangkok Metropolis 10900 Tel: 579-1121 - 30	470	144	35,000,000(1980) 45,200,000(1981)	Initiation of, operation of, promotion of and support to applied scientific research and investigation; application of the research results for the benefit of the country; training of scientific researchers; provision of service in scientific tests and measurements including calibration and repair. Phy., Chem., Bio., Agr., Pharm., Eng., Eco. and Soc.	86

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
<u>6. MINISTRY OF EDUCATION</u> <u>6.1 Department of Physical Education</u> <u>6.1.1 Division of Physical Education and Health Promotion</u> <u>6.1.1.1 Physical Fitness Section</u>	Rama 1 Rd., K. Pathum Wan, Bangkok Metropolis 10500	17	1	180,000(1980) 200,000(1981)	<p>Organization of training and demonstration on method of testing physical capability in the central and regional areas; compilation of data to establish standards for sport potential testing pattern in lower secondary education level; analysis of and research on physical capability of students of all levels, as well as training teachers in physical hygiene; provision of service and advice in using equipments and tools for physical capability test.</p> <p>Edu., Anat. and Physio.</p>	6
<u>6.2 Institution of Technology and Vocational Education</u> <u>6.2.1 Faculty of Agriculture</u>	43 Bang Na-Trat Rd., T. Bang Phra, A. Siracha, C. Chon Buri Tel. 311-808-9	65	10		<p>Administration of education in vocational agriculture at the level of bachelor degree in agricultural technology.</p> <p>Agr.</p>	5

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research.	No. of Res. Proj.
		Total	Researcher (s)			
6.2.2 <u>Phitsanulok Campus</u>	Moo 7, T. Bang-Krang, A. Muang Phitsanulok, C. Phitsanulok	56	3	5,000 (1981)	Administration of education as specified in the curriculum by applying modern technology to propagate and to improve learning and teaching as well as to develop the campus; promotion of research on vocational education and provision of technical services for society. Agr.	1
6.2.3 <u>Khon Kaen Campus</u>	150 Sichan Rd., A. Muang Khon Kaen, C. Khon Kaen	99	8	100,000 (1981), NRC 32,900 (1980) Ford Foundation 15,560 (1980)	Administration of education in industrial technology at the levels of vocational certificate, higher vocational certificate and general secondary teachers diploma; instruction in machine shop, auto-mechanics, plumbing, draftsmanship, electric machines, electronics and construction at the level of higher vocational certificate. Agr.	10
6.2.4 <u>Agricultural Research and Training Center</u>	200 Phaholyothin Rd., A. Muang Lampang, C. Lampang	17	13	220,000 (1980) 225,030 (1981)	Study and research on basic agriculture, breeding plants for distribution to various agricultural campuses and interested people; training of students under its charge; provision of short training courses for interested people; setup of operation programs for social development and publication of technical documents for dissemination. Agr.	32

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
7. <u>MINISTRY OF PUBLIC HEALTH</u> 7.1 <u>Office of the Permanent Secretary of State</u> 7.1.1 <u>Health Planning Division</u>	Samsen Rd., K. Phra Nakhon, Bangkok Metropolitan 10200 Tel. 282-1886	53	8	USAID 2,113,100 (1980) WHO 413,340 (1981)	Study and analysis for planning public health policy and annual budget; coordination of projects on public health development and foreign assistances; investigation on the change of public health situation and need of public health service; training in public health service planning and management. Health service	4
7.1.2 <u>Division of Epidemiology</u> 7.1.2.1 <u>Research Section</u>	ditto Tel. 282-1887	12	4	707,660 (1980); WHO 30,000 (1980) 40,000 (1981)	Establishment of research programs on the epidemiology, prevention and control of diseases harassing public health with emphasis on the fields of medicine, veterinary medicine, public health, entomology and medical sciences. Med. Sci.	6
7.1.3 <u>Rural Health Division</u> 7.1.3.1 <u>Technical Section</u> 7.1.3.1.1 <u>Operation Research Sub-Section</u>	ditto Tel. 281-3054	3	3	65,000 (1980) NRC200,000 (1981)	Study and research by means of both pilot project and other forms in order to apply the research results for improving the efficiencies of public health administration and service. Pub. Health Adm.	5

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
7.1.4 <u>Health Education Division</u>	ditto Tel. 281-1158	71	2	50,000 (1981), NRC 15,000 (1980), WHO 200,000 (1980)	Planning, technique development, research and evaluation, organization of training and meeting, production and acquisition of educational audio-visual equipments, presentation, followup, setup of demonstration programs, information dissemination, public relations, and coordination with other units. Pub. Health	6
7.2 <u>Department of Medical Services</u>						
7.2.1 <u>Technical Division</u>	Samsen Rd., K. Phra Nakhon, Bangkok Metropolis 10200 Tel. 282-7111-5 Ext. 53	6	5	WHO	Development of medical sciences knowledge by means of training, information and research in medicine and public health, as well as medical service for patients of physical and mental disorders. Med. Sci., Dent., Pharm., Biochem. and Soc.	5
7.2.2 <u>Institute of Pathology</u>	2 Rajvithi Rd., K. Phya Thai, Bangkok Metropolis 10400 Tel. 282-7182	48	7		Performance of pathological work, namely, surgery autopsy, medical and cytological examinations, and personnel training; support to pathology division of hospitals under the jurisdiction of the Ministry of Public Health; pathological investigation and collection of pathological data for support to epidemiological work,	8

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher (s)			
7.2.3 National Cancer Institute	268/1 Pra Ram 6 Rd., K. Phaya Thai, Bangkok Metropolis 10400 Tel. 282-2126-35	15	13	1,561,428 (1980)	function as the center for coordination and cooperation among pathological units inside and outside the country. Med. Sci. Function as the center for the study, collection and dissemination of information and statistics on cancer in Thailand; diagnosis and treatment of cancer in its early stage; study of and research on cancer; coordination and cooperation with domestic cancer clinics and international cancer institutes; provision of training courses on cancer for physicians, nurses, medical students and scientists. Med. Sci.	30
7.2.4 Institute of Dermatology	420/7 Rajvithi Rd., 130 K. Phaya Thai, Bangkok Metropolis 10400 Tel. 281-7200	130	2	2,000 (1980) 4,200 (1981)	Function as the Thai center for collection and dissemination of information on skin-diseases; investigation on their epidemiology; provision of diagnosis and treatment for the public; provision of training for physicians, nurses and scientists; provision of advice and assistance for all units under the jurisdiction of the Department of Medical Services in handling psychological cases due to skin disease; exchange of views and experience with all dermatological institute inside and outside the country. Med. Sci.	13

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher (s)			
7.2.5 <u>Mental Health Division</u> 7.2.5.1 Chiangmai Neuropsychiatric Hospital	130 Suthep Rd., A. Muang Chiang Mai, C. Chiang Mai	90	10		Treatment of psychiatric and neurologic patients, protection and promotion of mental health of the population in Region 5 and 6 by training officials dealing with public health and hygiene; production of extension documents for mass communication; function as a psychiatric study center for all public health service units in Region 5.	5
7.2.5.2 Yuvaprasart Child Psychiatric Hospital	98 Sukhumvit Rd., A. Muang Samut Prakan C. Samut Prakan Tel. 394-1845	48	7		Med. Sci., Psych. and Soc. Provision of service for both male and female psychiatric patients, especially in-patients of infant age up to 14 years old; also provision of psychotherapy for each family; function as the consultation and reference center for patients referred to it by hospitals and all related medical units; function as an associated institute for training of physicians, nurses and students in psychiatry and psychology; study and research on mental health service for the benefit of neuropsychiatry treatment and prevention, and of mental health promotion. Med. Sci., Psych. and Soc.	5

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
7.2.5.3 Suanprang Hospital Chiang Mai	131 Chang Lah Rd., A. Muang Chiang Mai, C. Chiang Mai Tel. 234-826	145	9	10,000 (1980) 10,000 (1981)	Diagnosis and treatment for rehabilitation of psychiatric capability, provision of mental health service, dissemination of information on preventive method and causes of psychiatric disorder, training of physicians, nurses and students in psychiatry and psychology, study and research on mental health service for the benefit of neuropsychiatry treatment and prevention, and mental health promotion. Med. Sci., Psych. and Soc.	1
7.2.5.4 Suansranrom Psychiatric Hospital	843 Tah Kam-Ban Don Rd., A. Phumphin, C. Surat Thani Tel. 311-308	153	9		Provision of service in promoting mental health, prevention and treatment and rehabilitating the mental capability of psychiatric and neurologic patients in Region 7,8,9; function as a technical center for training of medical nursing and other students of academic institutions as well as research on mental health and psychiatry.	9
7.2.5.5 Rajanukul Hospital	4737 Din Dang Rd., K. Phaya Thai, Bangkok Metropolis 10400 Tel. 245-4601-5	153	5		Provision of service for the public in diagnosis, treatment, investigation, prevention, and information on mental retardation; training of hospital personnel, and government officials, students and pupils in serving retardates, provision of special training courses for teachers;	5

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
7.2.5.6 Buddhist Monks' Hospital	445 Si Ayutthaya Rd., K. Phaya Thai, Bangkok Metropolitan 10400	392		Di Ishi Co. 40,000 (1981)	rehabilitation of retardates capabilities by special and vocational training; expansion of service and increase in efficiency of the service to retardates in the community. Med. Sci., Edu. and Soc. Treatment of sick priests and novices and research on the cure for ailments. Med. Sci.	2
7.2.5.7 Somdet Chaopraya Hospital	Somdet Chaopraya Rd., K. Klong San, Bangkok Metropolitan 10600 Tel. 466-4050				Provision of service for psychiatric and neurologic patients; provision of training courses on psychiatry for institutions of all levels. Med. Sci. and Psych.	29
7.2.5.8 Rajvithi Hospital	Rajvithi Rd., K. Phaya Thai, Bangkok Metropolitan 10400 Tel. 281-8014				Provision of medical service for patients and of training for physicians and nurses. Med. Sci.	3
7.2.5.9 Prasart Hospital	ditto Tel. 282-0131-40				Promotion of health and prevention of ailments due to the effect of poisonous substances from industrial factories on the nervous system of the people by determining the quantity of each poisonous substance in normal Thai persons and the level of each poisonous substance toxic to the nervous system for use as a data base for checking the toxicity and serving as a guideline for appropriate prevention and treatment. Med. Sci.	26

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Prof.
		Total	Researcher(s)			
7.3 <u>Department of Communicable Disease Control</u> 7.3.1 <u>V.D. Control Division</u>	189 Sathorn Tai Rd., K. Yan Nawa, Bangkok Metropolis 10120 Tel: 286-0431	752	7	368,100(1981), Serm Mitr Co. 16,000(1981), Merck Sharp & Dohme 32,000(1981), Hoechst Thai Ltd. 8,000(1981), Diethelm Co. 10,000(1981)	Prevention and treatment of venereal diseases in Bangkok area, provision of theoretical and practical trainings in venereal diseases for physicians of all hospitals, medical students, nurses, public health personnel of other divisions and related units; research on treatment and epidemiology of venereal diseases. Med. Sci.	15
7.3.2 <u>Malaria Division</u>	Samsen Rd., K. Phra Nakon, Bangkok Metropolis 10200 Tel: 281-6600	932	24	WHO 506,802.60(1980), Private sectors 180,214.92(1980)	Conduct and promotion of research on malaria and mosquitoes as its vector; Control and treatment of malaria. Med. Sci., Bio., Soc. and Com. Ser.	8
7.3.3 <u>Division of Communicable Diseases</u> 7.3.3.1 Zoonoses Section	ditto Tel: 282-8928	12	3	68,000(1980) 85,000(1981)	Support to and promotion of technical operation; control and prevention of communicable diseases between animal and man. Vet. Sci.	4

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Resear- cher(s)			
7.3.3.2 Helminthiasis Section	ditto Tel: 282-8782	11	2	JOICEP 40,000(1980)	Technical operation and research on control of helminthiasis; provision of technical information, medicals and a part of the budget. Med. Sci.	4
7.3.4 <u>Division of Filariasis</u>	ditto Tel: 282-5875	31	1		Survey and study of filariasis epidemiology, entomological study of mosquitoes, research on the pathology of the disease in order to find means of controlling it and provision of service in its treatment. Med. Sci. and Bio.	1
7.3.5 <u>Rajpracha Samasai Institute</u>	Poo Chao Saming Prai Rd., A. Phra Pradaeng, C. Samut Prakan Tel: 394-0489	33	9	Sasakawa Memorial Health Foundation of Japan \$26,734(1980) and \$33,000(1981), WHO 35,000(1980)	Training of personnel for leprosy work, research on leprosy, dissemination of leprosy information and conduct of public relations on leprosy, coordination with related organizations inside and outside the country. Med. Sci., Anth. and Soc.	11

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
7.4 <u>Department of Medical Sciences</u>						
7.4.1 <u>Division of Medical Entomology</u>	Bamrung Muang Rd., K. Pom Prap Sattru Phai, Bangkok Metropolis 10400 Tel: 223-1444	51	14	1,404,100(1980) 1,850,800(1981) NRC 101,200(1980), WHO 61,000(1980) 61,000(1981), UN 1,440,000(1981), Department of Medical Sciences fund 517,834(1980), Plant Pest Control Center research grant 37,000(1980) 41,900(1981)	Research on biology, ecology of various insect vectors, study on methods of controlling and preventing epidemic transmitted by insects; provision of training, dissemination of information, coordination with related organizations inside and outside the country; function as WHO Collaborating Centre for Evaluation of Pesticides Applicators for South East Asia. Bio., Med. Sci. and Edu.	24
7.4.2 <u>Division of Clinical Pathology</u>	693 Bamrung Muang Rd., K. Pom Prap Sattru Phai, Bangkok Metropolis 10100 Tel: 223-4659	46	10		Research, treatment, control and prevention of diseases by medical examination in accordance with the principles and standards in medical science, production and test of standards of biological materials, function as a training center, survey and research on epidemiology of some communicable diseases, coordination with medical science institutes in foreign countries in information exchange and technical assistance. Med. Sci.	7

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
<u>7.4.3 Division of Toxicology</u>	ditto Tel: 223-1444	25	1		Analysis of poisonous substances in organs of human and animal remains, specimens of patients working on poisonous substances for the benefit of diagnosis, prosecution, treatment and protection of health and hygiene; also analysis of substances toxic to environment and public. Chem.	1
<u>7.4.4 Drug Analysis Division</u>	ditto Tel: 223-1444	83	9	374,232(1980) 718,083(1981)	Control of quality and standards of drugs of all types used and sold in Thailand, test for and identification of all kinds of narcotics for prosecution by narcotic suppression officers, function as training center for drug analysts in Thailand and South East Asian region. Pharm.	16
<u>7.4.5 Food Analysis Division</u>	ditto Tel: 223-9873	79	5	NRC 70,000(1980) 100,000(1981), JICA 142,550(1980) 119,000(1981), WHO 10,200(1980)	Analysis of and research on food quality for the safety of consumers in the country and for export certification Med. Sci.	24

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
7.4.6 <u>Division of Medical Research</u>	ditto Tel: 223-1444	61	25	3,277,821.23 (1980) 4,286,593(1981), JOICEP 80,000(1980), NRC 80,000(1981), Pharmaceutical Organization 264,820(1980) 215,360(1981)	Study and research in medical science, medicinal plants, and other materials for use as medicine; research on methods of developing and controlling standards of biological materials for the advancement of knowledge in medicine and pharmacy. Med. Sci., Pharm., Chem., Biochem., Microbio., Agr. and Bot.	20
7.4.7 <u>Virus Research Institute</u>	ditto Tel: 223-6713	43	21	3,384,000(1980) 3,850,313(1981), NRC 35,000(1980) 15,000(1981), WHO 1,000,000(1980) 600,000(1981)	Diagnosis, treatment, prevention and control of virus diseases with high efficiency by examination, survey and research on virus diseases, which are serious national problems in public health; experimental production of all types of vaccine; basic research on virus. Med. Sci.	7
7.5 <u>Department of Health</u> 7.5.1 <u>Dental Health Division</u>	Samsen Rd., K. Phra Nakhon, Bangkok Metropolis 10200 Tel: 282-9091	90	7	109,760(1980) 109,760(1981)	Establishment of plans and programmes on promotion of mouth and teeth hygiene, demonstration on practice of dental health, training of personnel providing service in and disseminating information on dental health; analysis and research for planning on public dental health. Dent.	5

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Resear- cher(s)			
7.5.2 <u>Nutrition Division</u>	ditto Tel: 281-5425	89	13	24,145,500(1980) 26,830,800(1981) Population Study Project 2,775,360(1981)	Establishment of objective and promotion in the improvement of public nutrition condition for their good health; cooperation and coordination with related government units, organizations and institutions inside and outside Thailand. Food and Nutrition	2
7.5.3 <u>School Health Division</u>	ditto Tel: 281-6620, 281-0738	169	1	235,800(1980) 175,880(1981)	Provision of training in school hygiene for public health personnel and teachers from various changwats; support to changwats in the form of budget, materials and equipment for conducting hygiene activities; study of and research on the health problem of pupils and setup of special projects for research. Public health and Pharm.	10
7.5.4 <u>Environmental Health Division</u>	ditto Tel: 281-2053	73		60,000(1980)	Recommendation on the environmental standards for the control of water and air pollution; survey of potable water quality; design for and research on the construction involving health protection as well as inspection of the design whether it has complied with the requirement stipulated in the law. Chem., Eng., Bio. and Phys.	2

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Resear- cher(s)			
7.5.5 <u>Occupational Health</u> <u>Division</u>	ditto Tel: 282-5176	55	8	100,000(1980)	Research on technical problems in order to promote the health of people in every occupation; control and prevention of diseases and accidents which may occur in the conduct of occupation. Chem., Bio., Med. Sci. and Eng.	5

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Resear- cher(s)			
<u>8. MINISTRY OF INDUSTRY</u> <u>8.1 Office of the Permanent- Secretary of State</u> <u>8.1.1 Industrial Economics and Planning Division</u>	Rama 6 Rd., K. Phaya Thai, Bangkok Metropolis 10400 Tel: 291-1850	56	20		Development of the structure for industrial economic system, increase in gross national income, exploitation of resources, improvement of technological level, spread of industry to provincial areas, support to industrial production for export, study of production and marketing problems, provision of industrial information service to government units, private enterprises and other institutions. Eng. and Eco.	3
<u>8.1.2 Agriculture Division</u> <u>8.1.2.1 The Sugar Institute</u>	121 Luang Rd., K. Pom Prap Sathru Phai, Bangkok Metropolis 10100 Tel: 221-2293	12			Administration of technical service, promotion of sugar cane plantation and sugar industry; study, research and experimentation in order to improve the quality and productivity of sugar cane and sugar, promotion in planting sugar cane of good variety, use of fertilizer, prevention and suppression of plant pests. Agr.	2

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Resear- cher(s)			
8.2 <u>Department of Mineral Resources</u>						
8.2.1 <u>Mining Technology Division</u>						
8.2.1.1 Mineral Processing Section	Phraya Payub Piriyakit Rd., A. Phra Pradaeng, C. Samut Prakan	15	8	NRC 66,500(1981)	Experimentation and research on metal and non-metal mineral beneficiation for industrial use, provision of service in beneficiation for miners who need assistance in solving mineral separation problems, development of mineral beneficiation in order to increase their value, and consideration on establishment of mineral beneficiation plants. Eng., Chem. and Geo.	5
8.2.1.2 Environment Section	Pama 6 Rd., K. Phaya Thai, Bangkok Metropolis 10400 Tel: 282-7311	10	8		Planning of policy and environment standards, study of and research on the impact of mining on the environment. Env. Sci., Geo., Chem., Bio., Agr., Eng., Eco. and Soc.	5

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
8.2.2 <u>Ground Water Division</u>	ditto Tel: 281-6100	101	5	43,298(1980) 50,000(1981), Office of the National Environment Board 1,834,625(1980) 300,000(1981)	Survey of the quantity, quality and depth of ground water all over the country to solve problems of shortage of potable water in rural villages; study of and research on hydro-geology for potential ground-water resources in order to plan the water supply for agriculture and industry; provision of technical assistance for government units; training for and coordination with foreign organizations. Geo., Eng., Hyd. and Artesian Water.	3
8.2.3 <u>Metallurgy Division</u> 8.2.3.1 Metallurgy Research Section	ditto Tel: 281-5930	20	4		Analysis of metals and alloys, examination and improvement of structure by the application of heat, study and experimentation on methods of using metal waste and dust from factories, support in the establishment of small-scale industries in Thailand. Eng. and Metal.	4
8.2.4 <u>Geological Survey Division</u> 8.2.4.1 Analysis Chemistry Section	ditto Tel: 281-0437				Analysis of metals present in minute quantities (ppm) in sea-water and sediment by cooperation with The Sub-Committee on Research on Water Pollution in Thai Territorial Waters, National Research Council, as well as the study on the quantity of each element causing environmental pollution to international waters. Geo. and Chem.	2

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
8.2.5 <u>Mineral Resources Center 3</u>	Chiang Mai University Campus, Suthep Rd., A. Muang Chiang Mai, C. Chiang Mai Tel: 221-385	14	2		Study, research and experimentation on mining, mineral beneficiation, mineral prospecting and mineral analysis in order to assist the private sector and to solve its technical problems as well as to introduce new technology for the promotion of mining industry Eng.	3
8.2.6 <u>Mineral Resources Center I</u>	Kanchanavanij Rd., A. Muang Songkla, C. Songkla, Tel: 311-412				Function as a technical office of mineral resources for changwats in The Southern part of Thailand, namely, Songkhla, Yala, Pattani, Narathiwat, Trang, Krabi, Phatthalung, Nakhon Si Thammarat, Surat Thani and Satun. Geo., and Min. Eng.	2
8.3 <u>Department of Industrial Works</u>						
8.3.1 <u>Industrial Environment Division</u>						
8.3.1.1 Technical Sub-division	Rama 6 Rd., K. Phaya Thai, Bangkok Metropolitan 10400 Tel: 282-1733 Ext. 522	21	6		Planning of prevention, control and elimination of water, air, dust, smoke, smell, noise and heat pollution due to industrial activities; examination of plans and design of air pollution preventing system and improvement of industrial waste water; setup of measures for prevention of environmental pollution; provision of technical advice on prevention and elimination, in compliance with Industrial Factory Act, of environmental pollution caused by industrial factories, Sanitary Engineering	4

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
8.4 Department of Industrial Promotion	158/1 Toong Hotel Rd., A. Muang Chiang Mai, C. Chiang Mai Tel: 235-494	68	1		Provision of assistance in technological information useful in the improvement of performance efficiency for industry, promotion of investment in appropriate industry in the Northern part of Thailand, vocational training in various types of handicrafts and home industries to be adopted as an occupation. Eng. and Eco.	1
8.4.2 Industrial Productivity Division	Rama 6 Rd., K. Phaya Thai, Bangkok Metropolitanis 10400 Tel: 281-7033	91	8	Asean Productivity Organization 48,000(1980) 30,000(1981)	Provision of training and advice in solving problem of production management, marketing, book-keeping, personnel and administrative system; preparation of extension documents and periodicals for distribution to government and private organizations; coordination with the Asian Productivity Organization in various activities to increase industrial and agricultural productivity Eng., Eco., Bus. Adm. and Man.	11
8.4.3 Thai Handicrafts Promotion Division, Product Design & Development	Pra Ram 6 Rd., K. Phaya Thai, Bangkok Metropolitanis 10400 Tel: 282-4200 - 02	20	3	402,700(1981)	Investigation, experimentation and adaptation of raw materials used in handicraft production improvement of designs so as to be compatible with the usage and to have superior quality symbolic of Thai craft; provision of service in the design of handicraft products, production techniques, information on the sources of raw material, etc. Arts and Prod. design	

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Prof.
		Total	Researcher(s)			
9. <u>MINISTRY OF UNIVERSITY AFFAIRS</u> 9.1 <u>Chulalongkorn University</u> 9.1.1 <u>Faculty of Dentistry</u>	Henri Dunant Rd., K. Pathum Wan, Bangkok Metropolis 10500 Tel: 252-5151			200,000(1980) 200,000(1981)	Teaching of dentistry to both undergraduate and graduate students; research on dentistry for the benefit of teaching, the advancement of knowledge, and application in solving social problems; provision of public service in the treatment and prevention of dental and oral diseases. Dent.	32
9.1.2 <u>Faculty of Medicine</u>	Pra Ram 4 Rd., K. Pathum Wan, Bangkok Metropolis 10500 Tel: 252-7859	475	130	China Medical Board Fund 579,150(1980) 1,241,370(1981)	Administration of curricula for both medical and medical technology degrees, advanced medical certificate and medical specialist diploma; provision of medical service for patients in Chulalongkorn Hospital; provision of training in medical education for the teaching staffs of the Faculty, other faculties and foreign institutions in South East Asia. Med. Sci.	81
9.1.3 <u>Faculty of Pharmaceutical Science</u>	Phaya Thai Rd., K. Pathum Wan, Bangkok Metropolis 10500 Tel: 252-6006	110	60	200,000(1980) 240,000(1981), Medicinal Plant Research 380,000(1980)	Teaching of pharmaceutical science and support to the professional staff for the advancement of their knowledge. Pharm.	44

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Resear- cher (s)			
9.1.4 <u>Faculty of Science</u>	ditto Tel: 252-4944	332	34	400,000(1980) 470,000(1981) Rajdapisek Fund 172,360(1980)	Teaching of science; conduct of research and evaluation of results in order to compile scientific knowledge; provision of technical service for society as well as performance of scientific activities for the benefit of culture and society. Math., Phys., Geo., Chem., Bio., Agr., Med. Sci. and Eng. Function as a center for cooperation, coordination, research and development of science and technology in the Faculty. Eng.	131
9.1.5 <u>Faculty of Engineering, Engineering Institute of Research and Develop- ment</u>	ditto Tel: 252-5001 Ext. 192	70	70	332,496(1980) 330,000(1981)		69
9.1.6 <u>Institute of Health Research</u>	10 Phaya Thai Rd., K. Pathum Wan, Bangkok Metropolis 10500 Tel: 251-1953	32	13	550,000(1980) 650,000(1981) WHO, UNFEDAC, CIDA, UNFPA, IPPF 9,300,000(1980) 9,000,000(1981)	Research on medical science and other related subjects; training of researchers and research personnel of various levels; dissemination of information on research results inside and outside Thailand. Med. Sci.	17
9.1.7 <u>Institute of Environ- mental Research</u>	Phaya Thai Rd., K. Pathum Wan, Bangkok Metropolis 10500 Tel: 251-1953	21	6	381,000(1980) 634,000(1981)	Function as a center for cooperation in the study of and the research on environment in order to increase the technical knowledge for application in improving the environment; study of characteristics, principle and relationship between natural; social and cultural environments and human life; support to teaching and dissemination of information on research results. Geo., Chem., Bio., Agr., Eng., Env. Sci., Eco., Soc., Anth., Pop. and Cit. Plan.	33

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
9.1.8 <u>Research Affairs,</u> <u>Sichang Marine Science</u> <u>Research Station and</u> <u>Training Center</u>	T. Tah Tevavong, K. A. Sichang, C. Chonburi	4	1	50,000(1980) 50,000(1981)	Research in accordance with the Station's master program with emphasis in the beginning on sea-food production; function as a training center for undergraduate and graduate students in marine science; provision of technical service for society with emphasis on information concerning fishery occupation; maintenance of arts and culture, conservation of historical places in the original palace during the reign of King Rama V. Bio., Agr., Arch., Archi. and Cit. Plan.	2
9.1.9 <u>Institute of Computer</u> <u>Service</u>	Phaya Thai Rd., K. Pathum Wan, Bangkok Metropolitanis 10500 Tel: 252-7714	46	44	7,263,603.36 (1980) 9,395,489.35 (1981)	Provision of 24-hours service for users inside and outside Chulalongkorn University in the form of computer system, personnel and of equipments for processing data as well as for preparing programs of the Institute; maintenance of the computer in the most efficient state of performance; preparation of projects on the installation and expansion of the computer system. Both in Natural and social Sciences	134 (1980) 224 (1981)

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
9.1.10 <u>The Scientific and Technological Research Equipment Centre</u>	ditto Tel: 252-7070 Ext. 246 252-5946	21	17	2,274,400(1982) 6,831,500(1983) 7,472,200(1984) Chulalongkorn University income 1,000,000(1981) 650,000(1982) 1,009,080(1983) 1,000,000(1984) Japanese Government 40,000,000(1982)	Provision of services for researchers by analyzing, developing and constructing research equipments; provision of services for teaching undergraduate and graduate students by analyzing, testing and constructing research equipments; development of personnel by provision of training in the use, maintenance, repair, modification and interfacing of different research equipments; general development of science and technology through Intercomparison and Supply Service.	2418 samples (4 months)
9.2 <u>Kasetsart University</u> 9.2.1 <u>Faculty of Agriculture</u>	50 Phaholyothin Rd., K. Bangkhen, Bangkok Metropolis 10900 Tel: 579-0113 Ext. 291		48	Kasetsart Research Fund 731,400(1982)	Teaching of undergraduate and graduate students, research on both basic and applied sciences related to agriculture, support to various units for the development of agricultural occupation. Agr., Bio., Chem., Sci. and Food Tech.	227

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
9.2.2 <u>Faculty of Fisheries</u>	ditto Tel: 579-1202	61	37	97,000(1980) 221,000(1981), NRC 154,000(1980) 35,500(1981), Private Sector 30,000(1980), Research Institute 8,000(1981), Netherlands Government 40,000(1981)	Teaching of undergraduate and graduate students, research on fisheries in order to apply its result in teaching students and in extension service to agriculturists and interested people. Bio. and Agr.	71
9.2.3 <u>Faculty of Forestry</u>	ditto Tel: 579-0520	60	60	346,000(1980) 295,000(1981), Ford Foundation 120,000 (1980-1981), IFS 120,000 (1980-1981), USAID 1,561,000 (1980-1982)	Teaching of youths who are interested in forestry, conservation of natural resources and environment, enhancement of teaching efficiency, encouragement of the teaching staff to conduct research on the forestry-related subjects. Agr. and Env.	52
9.2.4 <u>Faculty of Engineering</u>	ditto Tel: 579-0545	167	19	45,000(1980) 10,500(1981), Technology Thai- Japan 20,000(1980) German Government 10,000(1980), USDA 740,000(1980)	Teaching of undergraduate and graduate students, research in the field of engineering, provision of technical service. Agr. Eng.	30

Name of Institutions	Location	Staff		Budget(Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Resear- cher(s)			
9.2.5 <u>Faculty of Science and Arts</u>	ditto Tel: 579-0113 Ext. 417		53	Kasetsart University Fund 282,500(1981) 216,500(1982), Other Research Funds 653,000(1980) 844,000(1981)	Agr., Microbio. and Chem.	59
9.2.6 <u>Faculty of Veterinary Science</u>	ditto Tel: 579-0524	66		420,390 (1982-1983), Kasetsart University Fund 170,000(1982) 641,000(1983), NRC 45,000(1982) 112,000(1981)	Vet. Sci., Chem., and Nutr.	42
9.2.7 <u>Faculty of Agro-Industry</u>	ditto Tel: 579-0113 Ext. 356	40	29	60,000(1980) 116,000(1981), IAEA 80,000(1980)	Teaching of undergraduate and graduate students in agro-industry consisting of food science, food technology, biotechnology, production development and packaging technology, conduct of research and extension of service to communities. Agro-Industry.	9

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
9.2.8 <u>National Corn and Sorghum Research Center</u>	Mitraparb Rd., A. Pak Chong, C. Nakhon Ratchasima		15	Kasetsart University Fund 672,040(1982)	Research on corn and sorghum with regard to breeding, cultivation, soil, fertilizers, plant diseases, human and animal consumption, processing, marketing study, production capacity and production cost of each farm. Agr., Chem., Bio. and Eco.	24
9.2.9 <u>Institute of Food Research and Product Development</u>	50 Phaholyothin Rd., K. Bangkhen, Bangkok Metropolis 10900 Tel: 579-0572	76	36	2,450,430(1980) 2,167,269(1981), NRC 166,000(1981), ASEAN 6,317,755 (June 1978 - May 1981), FAO 200,000(1980) 160,000(1981)	Research on food products of high nutritive value but low cost in order to solve problems of malnutrition and economics; development of and advice on investigation techniques for dissemination to public and private sectors; teaching of students and house-wives, including demonstration to consumers in selecting foods of good quality and reasonable cost. Sci., Food Tech. and Bio.	54
9.2.10 <u>Highland Agriculture Project, Kasetsart University Research and Development Institute</u>	ditto Tel: 579-5142	8	4	610,000(1980) 923,700(1981), USDA 3,293,340(1980) 3,293,340(1981)	Research on the introduction of temperate climate plants to hill tribes as substitutes for opium in order to promote the development of hill tribes and to conserve the watersheds. Agr., Bio. and Pharm.	13

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
9.2.11 <u>Extension and Training Office</u>	ditto Tel: 579-2294	66		12,000(1980) 15,000(1981)	Promotion of research in Kasetsart University and extension of its results to communities by cooperation with The Department of Agricultural Extension, Ministry of Agriculture and Cooperatives; training of teachers and government officials in the field where experimentation has been conducted; teaching of undergraduate and graduate students in agricultural extension; research on extension and production provision of service for education by audiovisual aids as well as publication of extension documents. Agr. and Soc.	8
9.3 <u>Khon Kaen University</u> 9.3.1 <u>Faculty of Agriculture</u>	123 Friendship Highway Rd., A. Muang Khon Kaen, C. Khon Kaen Tel: 236-199 Ext. 113	192	109	1,786,800(1980) 2,270,710(1981), Khon Kaen University Fund 50,000(1980) 53,100(1981), NRC 120,000(1980) 267,200(1981), The Livestock Department 300,000(1980) 300,000(1981), IDRC 9,153,390(1980) Ford Foundation 774,000(1981) USAID 540,000(1981)	Teaching of undergraduate and graduate students, research on agriculture, provision of training and extension service. Agr. and Bio.	116

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Resear- cher(s)			
9.3.2 <u>Faculty of Associated Medical Sciences</u>	123 Friendship Highway Rd., A. Muang Khon Kaen, C. Khon Kaen Tel: 236-903 - 5	33	9	51,000(1981)	Med. Sci.	3
9.3.3 <u>Faculty of Nursing</u>	ditto Tel: 236-903 Ext. 146	124	14	45,436(1980) 30,000(1981) NRC 16,740(1980)	Function as a center of teaching nursing profession at all levels, training for advanced professional certificate so as to serve in the professional staff of nursing institutions; also function as a center of disseminating primary nursing, hygiene and health subjects to the public and education institutions; promotion of the rural health development; study of the problems on nursing, hygiene and health. Med. Sci., Nursing, Soc. and Anth.	10
9.3.4 <u>Faculty of Medicine</u>	ditto Tel: 236-199 Ext. 1395	914	163	44,520(1980) 153,200(1981) Netherlands government 210,000(1981)	Alleviation of physician shortage in the North-eastern region; function as a research center for solving medical problems by technical cooperation and promotion of association among physicians inside and outside Thailand; provision of medical service for people mostly in this region. Med. Sci., Pharm., and Community Medicine	31

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Resear- cher(s)			
9.3.5 <u>Faculty of Science</u>	ditto Tel: 236-199 Ext. 326	172	11	68,276(1980) 73,906(1981)	Teaching and research in the field of science, mathematics and basic statistics; provision of technical training for teachers in the North-Eastern region. Math. Phys., Chem. and Bio.	13
9.3.6 <u>Faculty of Engineering</u>	ditto Tel: 236-503 Ext. 155	136	18	32,000(1980) 45,000(1981), Ford Foundation 70,000(1980) 980,000(1981), IDRC 1,289,900(1981), IDP 9,000(1980)	Teaching of engineering to undergraduate and graduate students; support to research activities conducted by the professional staff; provision of technical service for people in the region as well as promotion of arts and culture. Eng., City Planning and Archi.	14
9.4 <u>Chiang Mai University</u>						
9.4.1 <u>Faculty of Agriculture</u>	Huay Kao Rd., A. Muang Chiang Mai, C. Chiang Mai Tel: 221-699 Ext. 115				Teaching and research in various branches of agriculture and provision of service for the public Agr., Bio., Eco. and Soc.	41
9.4.2 <u>Faculty of Associated Medical Sciences</u>	Inthavarorote Rd., A. Muang Chiang Mai, C. Chiang Mai Tel: 221-829	86		Chiang Mai University 62,080(1980) 109,180(1981), NRC 52,000(1980), IAEA 26,000(1981)	Teaching of medical technology, radiological techniques and therapeutic treatment; research in the field of health science; provision of service for the public in laboratory examination and in the rehabilitation of patients Med. Sci.	20

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Resear- cher(s)			
9.4.3 <u>Faculty of Nursing</u>	ditto Tel: 221-293	148	9	China Medical Board 53,165(1980) 2,902.40(1981)	Teaching of nursing, support to research, provision of service in nursing and hygiene. Nursing	11
9.4.4 <u>Faculty of Medicine</u>	ditto Tel: 221-788	1,079	70	Faculty of Medicine 308,286(1981)	Teaching of medicine, provision of service in medical treatment, pro- motion of medical knowledge and occupation. Med. Sci.	91
9.4.5 <u>Faculty of Pharmacy</u>	Suthep Rd., A. Muang Chiang Mai, C. Chiang Mai Tel: 221-263	75	15		Teaching of pharmacy, research in pharmaceutical science, provision of technical service for the public, promotion of national and regional arts and culture. Pharm. and Soc.	17
9.4.6 <u>Faculty of Science</u>	Huay Kao Rd., A. Muang Chiang Mai, C. Chiang Mai Tel: 221-934	67		University Research Fund 101,215(1980) 223,315(1981), EGAT 270,000(1980), NRC 20,295(1980)	Teaching of science, research in the field of pure and applied sciences, provision of scientific service for the community Math., Phys., Geo., Chem., Bio. and Computer	53
9.4.7 <u>Faculty of Engineering</u>	ditto Tel: 221-624	122	7	University Research Fund 68,200(1980) 28,710(1981) NRC 94,900(1980)	Teaching and research in the field of engineering, provision of techni- cal service for the community in the Northern region. Eng.	13

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Prof.
		Total	Resear- cher(s)			
9.4.8 <u>Research Institute for Health Sciences</u>	Inthavarorote Rd., A. Muang Chiang Mai, C. Chiang Mai Tel: 221-966	71	28	4,326,700(1980) 5,635,300(1981) Asia Foundation 1,488,928(1980) 1,462,757(1981), WHO 2,175,180(1980)	Conduct of multi-disciplinary research in health sciences; provision of support and promotion as well as material and equipment service for research conducted by the teaching staff and other related units; provision of technical service for the community and function as a documentation center for health-science research. Med. Sci., Dent., Pharm., Nursing and Med. Tech.	15
9.5 <u>Mahidol University</u>						
9.5.1 <u>Faculty of Dentistry</u>	Yothi Rd., K. Phaya Thai, Bangkok Metropolitan 10400 Tel: 281-7300	233			Teaching of dental subjects to students who intend to be dentists, dental assistants and dental technicians; treatment and prevention of dental and other oral diseases; research in dentistry. Dent., Med. Sci., Soc., Edu. and Pharm.	64
9.5.2 <u>Faculty of Medical Technology</u>	Pran Nok Rd., K. Bangkok Noi, Bangkok Metropolitan 10700 Tel: 411-1422	105	44	13,000(1980) 50,000(1981), University income 32,000(1980) 20,500(1981)	Teaching in the fields of medical technology and radiological technology, training of medical science personnel, conduct of research to gain knowledge and experience for teaching, performance of laboratory examinations and tests for patients in Siriraj Hospital. Med. Sci.	45

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Resear- cher(s)			
9.5.3 <u>Faculty of Nursing</u>	Pran Nok Rd., K. Bangkok Noi, Bangkok Metropolis 10700 Tel: 465-3023				Teaching of nursing to students at the diploma, bachelor of science and master of science levels; study of the problem of nursing service in health and hygiene to the community; provision of technical service in health and hygiene for the community. Nursing	26
9.5.4 <u>Faculty of Medicine, Siriraj Hospital</u>	Aroon Amarin Rd., K. Bangkok Noi, Bangkok Metropolis 10700 Tel: 411-1429				Teaching in the field of medicine to supply medical personnel for public health service Med. Sci.	59
9.5.5 <u>Faculty of Medicine, Ramathibodi Hospital</u>	Phra Ram 6 Rd., K. Phaya Thai, Bangkok Metropolis 10400 Tel: 282-6435	1,811		Faculty income 1,000,000(1980) 1,000,000(1981) Rockefeller Foundation 426,300(1980) 219,000(1981)	Teaching of pathology and radiological technology to medical, nursing, and medical technology students; training of internees and house-physicians; research in basic and clinical medical sciences. Med. Sci., Bio., Chem. and Edu.	94
9.5.6 <u>Faculty of Science</u>	ditto Tel: 281-5800				Teaching, research and service in science, biological and medical sciences. Math., Chem., Med. Sci., Phys., Bio., Application of Science in Health and Food	90
9.5.7 <u>Faculty of Pharmacy</u>	Si Ayutthaya Rd., K. Phaya Thai, Bangkok Metropolis 10400 Tel: 282-4126 - 8	109	72		Teaching of pharmacy to undergraduate and graduate students, research in pharmacy. Pharm.	33

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
9.5.8 <u>Faculty of Tropical Medicine</u>	Rajvithi Rd., K. Phaya Thai, Bangkok Metropolis 10400 Tel: 281-9224				Promotion of tropical medicine by teaching, research and service to patients of tropical diseases as well as diseases endemic in various region of Thailand and South East Asia, function as the national center for tropical medicine in coordination with regional centers of South East Asian countries. Med. Sci.	67
9.5.9 <u>Faculty of Public Health</u>	ditto Tel: 282-7826 - 9	203	148		Teaching in public health, promotion of public health profession, training and research in public health, cooperation with other organizations and dissemination of information on public health. Med. Sci., Dent., Pharm., Chem., Bio., Vet. Sci., Eng., Pub. Health, Soc., Anth., Edu. and Psych.	30
9.5.10 <u>Faculty of Environment and Resource Studies</u>	Larn Luang Rd., K. Pom Prap Sattru Phai, Bangkok Metropolis 10100 Tel: 281-8109	20	6	185,000(1981)	Teaching of environmental administration technology to graduate students, conduct of research, provision of training and organization of technical seminars. Environmental Management	2

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
9.5.11 <u>Research Center</u> <u>Ramathibodi Hospital,</u> <u>Faculty of Medicine</u> <u>Ramathibodi</u>	Phra Ram 6 Rd., K. Phaya Thai, Bangkok Metropolitan 10400 Tel: 282-6435	54	28	8,000(1980), Faculty income 300,000(1980) 222,610(1981), Rockefeller Foundation 100,000(1980)	Function as the coordinating center for research conducted by The Faculty of Medicine, Ramathibodi Hospital by operation and coordination of research works between various departments and institutes, promotion of research efficiency in various faculties to raise the standard of research, and encouragement in common use of available resources. Med. Sci., Bio., Chem., Pharm. and Edu.	23
9.5.12 <u>Institute of Nutrition</u>	ditto Tel: 282-0733	31	22	IDRC 321,860(1980) 427,840(1981), U.S. 1,000,000(1981), Belgium 334,214(1980)	Promotion and conduct of research on food and nutrition in the country, especially with regard to food chemistry, food toxicology, clinical nutrition and community nutrition; provision of training in and dissemination of information on nutrition in order to improve the nutritional condition of Thai population; rendering of technical service in food and nutrition in the country and laboratory service in testing the quality and safety of foods. Food & Nutrition, Chem. and Med. Sci.	48

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Resear- cher(s)			
9.6 <u>Srinakharinwirot University</u> 9.6.1 <u>Faculty of Sciences</u>	Soi 23, Sukhumvit Rd., K. Phra Khanong, Bangkok Metropolis 10110 Tel: 391-1039	128			Teaching in science education, promotion of scientific research, rendering of technical service to society and promotion of arts and culture. Chem., Bio., Agr. and Phys. Sci.	9
9.6.2 <u>Faculty of Sciences</u> (<u>Pathumwan Campus</u>)	Henri Dunant Rd., K. Pathum Wan, Bangkok Metropolis 10500 Tel: 252-7048				The same activities as in 9.6.1 Chem., Bio. and Phys. Sci.	2
9.6.3 <u>Faculty of Sciences</u> (<u>Bangkheng Campus</u>)	Changwatana Rd., K. Bangkhen, Bangkok Metropolis 10900 Tel: 521-0323	42			The same activities as in 9.6.1 Math., Phys., Chem., Bio. and Edu.	2
9.6.4 <u>Faculty of Sciences</u> (<u>Bangsaen Campus</u>)	T. San Sook, A. Muang Chonburi, C. Chonburi Tel: 376-163	63			Development of youths in science and mathematics in compliance with the National Economic and Social Development Plan; teaching in science and mathematics as required by industry, agriculture and other fields; promotion of education and research in science and mathematics. Bio., Math., Agr. and Eng.	27

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
9.6.5 <u>Faculty of Sciences</u> <u>(Phitsanulok Campus)</u>	Sanam Bin Rd., A. Muang Phitsanulok, C. Phitsanulok Tel: 258-921	27			Offer of courses leading to the Bachelor of Education and Bachelor of Science degrees, conduct of research in order to promote education, provision of technical service to the community. Sci., Bio. and Phys.	1
9.6.6 <u>Faculty of Sciences</u> <u>(Maha Sarakham Campus)</u>	Maha Sarakham- Kosoom Rd., A. Muang Maha Sarakham, C. Maha Sarakham Tel: 711-180	29			Teaching of science subjects to undergraduate students in education, research for advancement of technical knowledge and provision of technical service for the community. Chem., Bio., Agr., Home. Econ., Edu. and Soc.	4
9.6.7 <u>Faculty of Sciences</u> <u>(Songkhla Campus)</u>	Kanjanavenit Rd., A. Muang Songkhla, C. Songkhla Tel: 311-711	33			Teaching in scientific education, dissemination of information and provision of technical service. Bio.	3
9.7 <u>Silpakorn University</u> 9.7.1 <u>Faculty of Science</u>	6 Raj-marn-ka-ni Rd., A. Muang Nakhon Pathom, C. Nakhon Pathom	79	33	168,000(1980) 168,000(1981)	Teaching of 6 courses, namely, mathematics, statistics, chemistry, biology, physics and general science at the bachelor degree level, promotion of research in science. Math., Phys., Chem., Bio., Stat. and Computer	28

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
9.7.2 <u>Faculty of Architecture</u>	Na-Phralan Rd., K. Phra Nakhon, Bangkok Metropolitan 10200 Tel: 221-8837	45	16	25,000(1980) 35,000(1981), Bangkok Bank Ltd. 300,000(1980), Toyota Founda- tion 500,000(1981)	Teaching at the bachelor degree level, research and dissemination of technical information. Archi, City Plan., Eng., Soc. and Fine Arts.	6
9.8 <u>Prince of Songkla Univer- sity</u>						
9.8.1 <u>Faculty of Natural Resources</u>	Kanjanavanit Rd., A. Hat Yai, C. Songkla Tel: 245-668	198	17	128,000(1980) 128,000(1981)	Impartment of knowledge and cultiva- tion of capability to exploit resources for the economic development of the Southern region as well as the protec- tion and the development of environment for the conservation of valuable resources as the national economic properties. Agr.	41
9.8.2 <u>Faculty of Medicine</u>	ditto Tel: 244-098	445	25	294,000(1980) 297,600(1981), NRC 107,480(1981), Pfizer Interna- tional Corp. SA. 20,000(1980)	Teaching and research in medicine and public health; provision of technical service for society. Med. Sci.	52

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Resear- cher(s)			
9.8.3 <u>Faculty of Science</u>	ditto Tel: 244-666	184		130,000(1980) 130,000(1981)	Teaching of various subjects in science to undergraduate students, research in science, dissemination of general technical knowledge to the people in the Southern region. Chem., Bio., Phys., Math. and Med. Sci.	47
9.8.4 <u>Faculty of Engineering</u>	ditto Tel: 244-305	143	24	80,000(1980) 100,000(1981)	Teaching of engineering to undergraduate students, research in engineering and technology, provision of technical service and protection of arts and culture. Eng.	26
9.9 <u>National Institute of Development Administration (NIDA)</u>						
9.9.1 <u>School of Applied Statistics</u>	Suka-pibarn 2 Rd., K. Bangkokapi, Bangkok Metropolis 10240 Tel: 377-5381	49	13	Research Fund from NIDA 904,575(1981)	Teaching of statistics, computer technique, research methodology, administration and population to graduate students, support to the teaching staff in research Math., and Eco.	28

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
9.10 <u>King Mongkut's Institute of Technology</u> 9.10.1 <u>Thonburi Campus</u> 9.10.1.1 Faculty of Engineering	48 Suksawasd Rd., K. Rat Burana, Bangkok Metropolis 10140 Tel: 462-5719	150	49	187,500(1980) 187,500(1981)	Teaching of engineering to undergraduate and vocational students, research and development in engineering, and provision of technical service to society. Eng.	59
9.10.1.2 School of Energy & Materials	ditto Tel: 462-4621	14	8	EGAT 200,000(1980) 150,000(1981), NRC 20,000(1980) 20,000(1981)	Teaching in the field of energy and materials to students at the master degree level; research in and development of energy and materials technology; dissemination of technical knowledge, research results and their development. Eng., Phys., Chem., Bio. and Eco.	31
9.10.2 <u>North Bangkok Campus</u> 9.10.2.1 Faculty of Engineering	Pracharast Sai 1 Rd., K. Dusit, Bangkok Metropolis 10300 Tel: 585-2111 - 5	71	12	125,000(1980) 220,000(1981)	Teaching in electrical and mechanical engineering as well as technology (production, material transportation, and industrial electricity.); research in engineering and industry, and provision of consultation service to the government, state enterprises and the public. Eng. and Ind.	22

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
9.10.2.2 Faculty of Industrial Education and Science 2	ditto Tel: 585-2111 - 5 Ext. 203			IDRC 18,000(1980)	Teaching of education and science to undergraduate students. Math., Phys., Geo. and Chem.	2
9.10.3 Chao Khun Taharn <u>Ladkrabang Campus</u>						
9.10.3.1 Faculty of Engineering	Lumphratiew Rd., K. Ladkrabang, Bangkok Metropolitanis 10240 Tel: 525-0160 - 2	127	35	300,000(1980) 360,000(1981)	Teaching of engineering to graduate, undergraduate and vocational students; conduct of applied research for the economic development of the country. Eng.	42
9.10.3.2 Faculty of Industrial Education and Science 3	ditto Tel: 525-0160 Ext. 72				The same activities as in 9.10.2.2 Phys. Sci., Eng. and Edu.	6
9.11 Maejo Institute of Agricultural Technology						
9.11.1 Faculty of Agricultural Business	San Sai-Phrao Rd., A. San Sai, C. Chiang Mai, Tel: 234-067	40	4	1,200(1980) Private Grant 1,000(1981)	Teaching in the field of economics, agricultural cooperatives, and agricultural business administration; conduct of research in social sciences and extension work to the public; protection of national arts and culture. Bus. Adm., Soc., Anth., Edu., Chem., Bio. and Agr.	7

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Resear- cher(s)			
9.11.2 <u>Faculty of Agricultural Production</u>	ditto	145	36		Teaching of courses in agricultural technology namely, field crops, horticulture, vegetable crops, fruit crops, poultry, cattle, swine, and fresh-water fisheries to undergraduate students; research in agriculture relating to agricultural production, business and industry, especially in The Southern part of the country; provision of extension service and continuing study in agriculture. Agr.	14
9.11.3 <u>Office of Agricultural Research and Extension</u>	ditto Tel: 234-065	27	5	149,760(1980) 147,500(1981), Pacific Seeds Co. 3,000(1980)	Analysis of and research on agricultural problems encountered in the northern region, investigation on modern technology for adaptation to suit local condition; dissemination of knowledge or research results as a community service in the form of both agricultural extension and training activities for the benefit of agriculturists and interested people; coordination with other government units in research work and in provision of technical service for agriculturists as well as in the development and the promotion of high-land agriculture covered by His Majesty's Northern Project. Agr., Eco., Bio., Bus. Adm. and Soc.	21

Name of Institutions	Location	Staff		Budget(Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
II. <u>STATE ENTERPRISES</u> 1. <u>ELECTRICITY GENERATING AUTHORITY OF THAILAND</u> 1.1 <u>Planning Department, Research and Development</u>	Charansanitwong Rd., A. Bang Kruai, C. Nonthaburi Tel: 424-0191	24	13	400,000(1980), UNDP 468,500(1981)	Study, research and pursuit of technical advancement relating to electricity business for application in the promotion of Electricity Generating Authority's activities, and for adoption of modern computer technology by EGAT in its engineering, scientific and administrative works. Eng., Geo., Chem. and Computer	7
2. <u>SPORTS ORGANIZATION OF THAILAND</u> 2.1 <u>Sport Science Center</u>	2088 Ram Kam Hang Rd., K. Bang Kapi, Bangkok Metropolitan 10240 Tel: 314-2071 - 6	25	8		Promotion of physical health and hygiene of the public and capability of sportsmen; study of and research in sports medicine and sports science as well as dissemination of technical information on sport; provision of medical service for sportsmen wounded or injured during exercise or contest. Sport Science	6

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
<u>3. THAILAND TOBACCO MONOPOLY</u> <u>3.1 Research Department</u>	Phra Ram 4 Rd., K. Phra Khanong, Bangkok Metropolis 10110 Tel: 252-9939	120	56	6,000,000(1980) 6,500,000(1981)	Improvement of tobacco production to yield, at low cost, good-quality tobacco leaves comparable to foreign produces so as to maintain the standards and to upgrade the quality of cigarettes produced by the Tobacco Monopoly from domestic tobacco leaves in substitution of imported ones. Agr., Bio., Chem., Phys. and Math.	95
<u>4. NATIONAL HOUSING AUTHORITY</u> <u>4.1 Research and Construction Department</u> <u>4.1.1 Research and Construction Division</u>	Sukhapiban 1 Rd., K. Bang Kapi, Bangkok Metropolis 10240 Tel: 377-5561 Ext. 170	52	13	360,000(1981)	Design of and research on residential housing system and infrastructure system for the use by the Office of Project Management as engineering and architectural standards, analysis of quantity and cost, preparation of technical manuals, collection of construction material samples, test of quality and resistance of material, library service, evaluation and record of work done in the Department. Arch., Eng., City Plan. and Soc.	11

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
5. <u>EXPRESSWAY AND RAPID TRANSIT AUTHORITY OF THAILAND</u>	Phaholyothin Rd., K. Bangkhen, Bangkok Metropolis 10900 Tel: 579-5380 - 9	259	3		Construction, maintenance and business control of expressways and mass transit; study and planning of rapid transit system construction for special convenience of traffic and transportation. Eng., Eco. and Bus. Adm.	10
6. <u>METROPOLITAN WATER WORKS AUTHORITY</u> 6.1 <u>Research and Development Division</u>	Bamrung Muang Rd., K. Pom Prap Sattru Phai, Bangkok Metropolis 10100 Tel: 223-0041 - 9 Ext. 187	39	3	2,885,120(1980) 2,264,260(1981)	Research and development in technology relating to the water works; compilation, examination and analysis of statistics and data for the use in research and planning; research on water production, supply and consumption based on the investigation, development and then recommendation on the improvement of quality and efficiency of water-production and supply systems. Eng.	7

Name of Institutions	Location	Staff		Budget(Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
7. <u>THAILAND INSTITUTE OF SCIENTIFIC AND TECHNOLOGICAL RESEARCH</u>	196 Phaholyothin Rd., K. Bangkokhen, Bangkok Metropolitan 10900 Tel: 579-1121 - 30	470	144	35,000,000(1980) 45,200,000(1981)	Initiation of operation of promotion of and support to applied scientific research and investigation; application of the research results for the benefit of the country; training of scientific researchers; provision of service in scientific tests and measurements including calibration and repair. Phy., Chem., Bio., Agr., Pharm., Eng., Eco. and Soc.	86
8. <u>THE INSTITUTE FOR THE PROMOTION OF TEACHING SCIENCE AND TECHNOLOGY</u>	924 Sukhumvit Rd., K. Phra Kanong, Bangkok Metropolitan 10110 Tel: 392-4021	178	63	1,064,210(1980) 654,280(1981), UNICEF 30,000(1980) 70,180(1981), Volkswagen Grant 768,790(1981)	Research on curricula, teaching methods, evaluation of teaching science, mathematics and technology at all levels of education by training of teachers and students; promotion, improvement and invention of equipments used in teaching science, mathematics and technology; preparation of textbooks, exercise books, reference books and teachers' handbooks in these subjects. Edu., Math., Phys., Chem. and Bio.	14

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
<p>III. <u>PRIVATE SECTOR</u></p> <p>1. <u>Asian Institute of Technology</u></p>	<p>Kilometer 42, Phaholyothin Rd., A. Khlong Luang, C. Pathum Thani Tel: 516-8321 - 5</p>	450	78	<p>16,330,000 (1979/1980), Foreign Fund 12,558,000 (1980/1981)</p>	<p>Provision of technical service for graduate study in the field of engineering and science to South East Asian countries by the support of foreign governments and international organizations. Eng., Agr., Geo. and Computer</p>	50
<p>2. <u>Science Society of Thailand</u> Membership in 1982 Members (life) 1,499 Members (annual) 47 Student members 87</p>	<p>Chulalongkorn U., Phaya Thai Rd., K. Pathumwan, Bangkok Metropolis 10500 Tel: 252-7987</p>	1	0	<p>Private contributions, membership fees and miscellaneous incomes 1,220,000(1982); Government grant 200,000</p>	<p>Development of scientific activities in Thailand, exchange of technical information among members and people interested in science regardless of national boundaries, promotion of education and research in science, compilation of members resources for the application in promoting public welfare, dissemination of scientific knowledge to the public</p>	0

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
3. <u>Agricultural Science Society of Thailand</u> Membership app. 1,000	Kasetsart U., 50 Phaholyothin Rd., K. Bangkokhen, Bangkok Metropolis 10900 Tel: 579-0113			Membership fees app. 30,000 (1983)	Promotion of, propagation of and support to the significance of education and research in agriculture; function as a focal point for the exchange of knowledge, information and experience among members inside and outside Thailand; cooperation with other associations, organizations and institutions in promoting agricultural science activities for both direct and indirect benefits to agriculture as a whole.	0
4. <u>Engineering Institute of Thailand</u> Membership in 1982 52 Senior members 21 Members Associated member 28	Chulalongkorn U., Phayae Thai Rd., K. Pathumwan, Bangkok Metropolis 10500 Tel: 252-6051 - 2			Membership fees and miscellaneous incomes app. 3,120,000 (1982)	Dissemination of new technology to members through the medium of the Journal of the Engineering Institute of Thailand; promotion of research and development by soliciting funds and allocating grants for engineers and engineering students to fulfill the said objective; cooperation with academic institutions to strengthen engineering education; provision of fund for publication of practical engineering textbooks, handbooks on the safety code of practice and other technical books in Thai language; organization of seminars and guest lectures for engineers in general as well as in specific principle; collection of data, rendering advice and setup of project for the benefit of the country.	

Name of Institutions	Location	Staff		Budget (Baht)	Activities Fields of Research	No. of Res. Proj.
		Total	Researcher(s)			
5. <u>Medical Association of Thailand</u> Membership in 1983 app. 4,000	2 Soi Soon Wichai, New Phetchaburi Rd., Bangkok Metropolitan 10100 Tel: 314-4333	7		Budget 1,624,000 (1983) Research fund 400,000 (1983)	Promotion of art and science of medicine; upgrade of medical practice standard; publication of the "Medical Journal"; organization of medical science meetings and exhibition; award of annual research grant to any member who has submitted the best project; function as a focal point for closer cooperation among national associations of various medical fields and physicians in foreign countries.	1 each year since 1967

AVAILABILITY OF ENGLISH REPORTS ON SCIENTIFIC
AND TECHNOLOGICAL RESEARCH IN THAILAND

The results of research works conducted by different government agencies and private sectors are normally published monographs, technical report series, proceedings and journal articles. Most of the published materials were written in Thai language with English abstracts, but many of the articles appeared in English. Usually, these publications except confidential topics undertaken by contract agreement are available as gift or on exchange basis. Many reference sources providing bibliographical information on scientific and technological research have been compiled and published by various agencies concerned at different frequencies. Some bibliographical tools including Scientific and Technological Information on Thailand have also been produced by international or regional cooperation.

Some important sources listed under the name of publishers and compilers with accompanying examples of their publications are presented as follows:

1. Thai National Documentation Centre, Thailand Institute of Scientific and Technological Research (TISTR)
 - (a) Abstracts of ASRCT Technical Reports.
(Published at 5 years interval)
 - (b) List of Scientific and Technical Literature Relating to Thailand. (Irregularly published)
 - (c) Thai Abstracts. Series A - Science and Technology (Semi-annually)
 - (d) Abstracts of Master Theses in Thailand 1944 - 1974
(Supplement issue is under preparation)
2. Asian Institute of Technology
 - (a) Research Summary (Annually)
3. Office of University Affairs
 - (a) Summary of Research Works of Teaching Staff and Theses of Graduate Students (Annually)
- 3.1 Chulalongkorn University
 - (a) Abstracts (Irregularly published)

- 3.1.1 Faculty of Science.
 - (a) Reports on Scientific Research.
- 3.1.2 The Institute of Environmental Research.
 - (a) Research Abstracts.
- 3.2 Mahidol University.
 - 3.2.1 Faculty of Graduate Studies.
 - (a) Research Abstracts.
 - 3.2.2 Faculty of Pharmaceutical Science.
 - (a) Abstracts of Special Research Projects. (In Thai).
- 3.3 Prince of Songkla University.
 - (a) Abstracts. (In Thai and English).
- 3.4 King Mongkut's Institute of Technology
 - 3.4.1 Faculty of Engineering.
 - (a) Research Report. (Annually)
- 4. Agricultural Information Bank for Asia, Southeast Asian Regional Centre for Graduate Study and Research in Agriculture, Philippines.
 - (a) Thai Agricultural Bibliography. (Irregularly published).
- 5. Food and Agriculture Organization of the United Nations. Current Agricultural Research Information System (CARIS).
 - (a) Agricultural Research in Developing Countries Volume 3 - Research Programmes. (1978 Edition, irregularly published).

SEE ANNEX I

INFORMATION INTERCHANGE WITH OTHER THAI
AND FOREIGN INSTITUTIONS

Libraries and information centres in Thailand have participated in world wide information activities and networks as follows:

1. Exchange of Science and Technology Information (STI).

The Thai National Documentation Centre (TNDC) of the Thailand Institute of Scientific and Technological Research (TISTR) has been accepted as the National Member of the International Federation for Documentation (FID) and its Commission for Asia and Oceania (FID/CAO) since 1964. The said membership benefits the country in the awareness of development in scientific documentation throughout the world and also enables Thailand to have a role in international and regional information activities. As suggested by various organizations, namely, FID, FID/CAO, Unesco, FAO, ASEAN Committee on Science and Technology, SEAMES, ASCA, etc. exchange of STI has long been carried out by TNDC. At present TNDC maintains liaison and exchange of S & T publications and information with 684 S & T institutes and libraries of both government and private sectors all over the world. This cooperative programme provides ready access to STI available in local and foreign institutions for research and development in the country*.

2. Agricultural Information Systems.

Thailand has joined the International Information System for the Agricultural Sciences and Technology (AGRIS) and the Current Agricultural Research Information System (CARIS) since 1974 and 1976 respectively. Within the general conceptual framework of UNISIST, which is the Unesco Programme of International Cooperation of the United Nations Food and Agriculture Organization (FAO), governments and institutions in order to establish a data base for providing references to current agricultural literature as well as current information on agricultural research in progress compiled on a world-wide basis. The Thai National Documentation Centre was a government designated National AGRIS Centre from 1974 to 1979 and has been National CARIS Centre since 1976. In 1980, responsibility of the National AGRIS Centre was transferred from TNDC to the Kasetsart University Library which serves users engaged mainly in agricultural studies and researches.

A regional network for AGRIS and CARIS programmes has been assigned to the Agricultural Information Bank of Asia (AIBA) located at the Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA) in the Philippines with the objective to serve research needs of the Asian countries in the field of Agriculture and its related disciplines. Thailand is providing literature and information on agricultural works in the country within the scope of both AGRIS and CARIS systems through AIBA to the AGRIS Coordinating Centre of the FAO in Rome. Inputs received from participating countries have been merged into a magnetic-taped data base from which informations are available in both machine-readable form and printed publications such as the two monthly journal AGRINDEX and AGRIASIA, as well as a 3-volumes set of "Directory of Agricultural Research in Developing Countries" embracing Research Institutions, Research Workers and Research Program in 1978.

3. The International Serials Data System Regional Centre for Southeast Asia

The International Serials Data System Regional Centre for Southeast Asia (ISDS-SEA) was established in 1976 at the National Library of Thailand with the purpose to create and to maintain a regional data bank for information essential for the identification of serials published in the countries of the region namely Indonesia, Malaysia, Philippines, Singapore and Thailand. Being the focal point of a regional network of national centres, ISDS-SEA collects information on serials forwarded by the national centres and establishes a computerized data file for merging thereafter into an international master file of the ISDS International Centre.

4. National Libraries and Documentation Centres of Southeast Asia Consortium

In early 1980 after the establishment of the National Libraries and Documentation Centres of Southeast Asia Consortium (NLDC-SEA Consortium), the National Library of Thailand acting as the national member of the NLDC-SEA Consortium developed the national information network in Thailand. At present about 30 libraries in the country participate in the network. The objectives of the Consortium are to develop an interlibrary exchange network for Southeast Asia; to optimize utilization of the library with access to the collections of national imprints available in each

of the member countries; and to promote prompt recording of national imprints in national bibliographies in accordance with international standards, thereby facilitating exchange of bibliographic information and improving document availability. To develop effective communications for the program, the National Library is equipped with telex facility by the support of IDRC. Interlibrary exchange includes requests for STI as well as information on social science and humanities aspect.

5. Dissemination of Medical Information

Mahidol University Library (formerly Siriraj Medical Library) is acting as a key station of SEAMIC (Southeast Asia Medical Information Center) and as a book depot of MEDLINE to contribute publications in the field of medical sciences and public health to the other libraries.

INSTITUTIONS PERFORMING RESEARCH OR OTHER WORK AND PRIME USERS OF THIS WORK

Name of Institutions	Prime users
I. <u>PUBLIC SECTOR</u>	
1. <u>MINISTRY OF DEFENSE</u>	
1.1 <u>The Supreme Command Headquarters</u>	
1.1.1 <u>Directorate of Education and Research, Military Research and Development Center</u>	Government organizations, armed forces research institutions and government organization
1.1.2 <u>Armed Forces Research Institute of Medical Sciences</u>	ditto
1.2 <u>Royal Thai Army</u>	
1.2.1 <u>Veterinary Department, Laboratory and Technical Division</u>	ditto
1.2.2 <u>Medical Department</u>	
1.2.2.1 <u>Pediatric Division, Pramongkutkloa Hospital</u>	Patients (infant and children), nurses, physicians
1.2.2.2 <u>Obstetrics and Gynaecology Division, Pramongkutkloa Hospital</u>	Patients, physicians, nurses.
1.2.2.3 <u>Division of Medicine, Pramongkutkloa Hospital</u>	Patients
1.2.2.4 <u>Army Institute of Pathology</u>	Armed forces
1.2.2.5 <u>Pramongkutkloa Medical College</u>	Medical students, Royal Thai Army
1.2.3 <u>The Armed Forces Industrial Department</u>	Armed forces and government organizations
1.3 <u>Royal Thai Navy</u>	
1.3.1 <u>Naval Science Department, Research Division</u>	Various units of the Royal Thai Navy
1.3.2 <u>Hydrographic Department, Oceanographic Division</u>	Royal Thai Navy and government organizations
1.4 <u>Royal Thai Air Force</u>	
1.4.1 <u>Directorate of Medical Service, Preventive Medicine Division</u>	Air Force personnel and students.

Name of Institutions	Prime users
1.4.2 <u>Directorate of Education and Training, The Faculty of the Royal Thai Air Force Academy</u>	Royal Thai Air Force
2. <u>MINISTRY OF AGRICULTURE AND COOPERATIVES</u>	
2.1 <u>Office of the Permanent Secretary of State</u>	
2.1.1 <u>Central Region Agricultural and Cooperatives, Chai Nat</u>	Farmers, agriculturists, interested people and government organizations
2.2 <u>Regional Agriculture</u>	
2.2.1 <u>Northeastern Region Agricultural and Cooperatives Centre, Khon Kaen</u>	Farmers, agriculturists, Ministry of Agriculture and Cooperatives agencies in the Northeast and government organizations
2.2.2 <u>Experimental and Demonstration Farm for Irrigation Agriculture</u>	ditto
2.2.3 <u>Demonstration Farm Phetchaburi</u>	Farmers, agriculturists and Ministry of Agriculture and Cooperatives agencies
2.2.4 <u>Royal Rain-Making Research and Development Institute</u>	Farmers and interested people
2.3 <u>The Royal Irrigation Department</u>	
2.3.1 <u>Operation and Maintenance Division, Experimental Research on Water for Agricultural Project</u>	Farmers, agriculturists and interested people
2.3.2 <u>Research and Laboratory Division</u>	
2.3.2.1 <u>Weed Control Laboratory Branch</u>	Farmers, agriculturists, interested people and government organizations
2.3.2.2 <u>Concrete and Construction Material Laboratory</u>	Thai Industrial Standard Institute, other division of the Department and private sector
2.4 <u>Department of Fisheries</u>	
2.4.1 <u>Brackish-Water Fisheries Division</u>	Fishermen and interested people
2.4.1.1 <u>Aquaculture Research</u>	ditto
2.4.1.2 <u>Aquaculture Resources Survey</u>	ditto
2.4.1.3 <u>Coastal Zone Development</u>	ditto

Name of Institutions	Prime users
2.4.1.4 Songkhla Coastal Aquaculture Center	Fishermen, interested people, government organizations
2.4.1.5 Phangnga Small Scale Fisheries Project	ditto
2.4.1.6 Chanthaburi Fisheries Station	ditto
2.4.1.7 Prachuap Khiri Khan Fisheries Station	ditto
2.4.1.8 Phuket Fisheries Station	ditto
2.4.1.9 Rayong Fisheries Station	ditto
2.4.1.10 Samut Sakhon Fishery Station	ditto
2.4.1.11 Satun Fishery Station	ditto
2.4.1.12 Surat Thani Fishery Station	ditto
2.4.2 <u>Fresh-water Fisheries Division</u>	
2.4.2.1 Kanchanaburi Fisheries Station	ditto
2.4.3 <u>National Inland Fisheries Institute</u>	Fishermen, interested people and government organizations
2.4.4 <u>Exploratory Fishery Division</u>	ditto
2.4.5 <u>Marine Fisheries Division</u>	ditto
2.4.6 <u>Phuket Marine Biological Centre</u>	Marine scientists, university students, fishermen and interested people
2.5 <u>Department of Livestock Development</u>	
2.5.1 <u>Animal Husbandry Division</u>	Livestock raisers, farmers and government organizations
2.5.2 <u>Division of Veterinary Research, Section of Veterinary Research</u>	ditto
2.5.3 <u>National Swine Research and Training Center</u>	Pig raisers, farmers, interested people and government organizations
2.5.4 <u>Northeast Livestock Development Project</u>	Livestock raisers, farmers, interested people and government organizations
2.6 <u>The Royal Forest Department</u>	
2.6.1 <u>Planning Division</u>	The Royal Forest Department and forest concessionaires

Name of Institutions	Prime users
<u>2.6.2 Forest Management Division</u>	
2.6.2.1 Forest Fire Control	ditto
2.6.2.2 Forest Mapping and Remote sensing Sub-Division, Remote Sensing Sector	ditto
<u>2.6.3 Silviculture Division</u>	
2.6.3.1 Botanical Section	Government organizations, scientists and interested people
2.6.3.2 Sub-Division of Silvicultural Research	Government organizations, forest concessionaires and interested people
<u>2.6.4 Forest Products Research Division</u>	Industry and government organizations
<u>2.6.5 Watershed Management Division</u>	
2.6.5.1 Research Sub-Division	Government organizations, and farmers
<u>2.6.6 Wildlife Conservation Division</u>	
2.6.6.1 Technical Section	Government organizations and environmentalists
<u>2.6.7 Si Racha Divisional Forest Office</u>	
2.6.7.1 Mangrove Forest Section	Government organizations, scientists, students, and interested people
<u>2.6.8 Pattani Forest Division</u>	Forest officials and government organizations
<u>2.6.9 Nakhon Si Thammarat Forest Division</u>	ditto
<u>2.7 Land Development Department</u>	
<u>2.7.1 Soil and Water Conservation and Management Division</u>	Farmers, agriculturists and government organizations
<u>2.7.2 Soil Survey Division</u>	Government organizations, Private sector and interested people
<u>2.7.3 Land Classification Division</u>	Government organizations, farmers, agriculturists and interested people
<u>2.7.4 Soil Analysis Division</u>	ditto
<u>2.7.5 Office of Coastal Land Development</u>	ditto

Name of Institutions	Prime users
2.7.6 <u>Thai-Australia World Bank Land Development Center</u>	Farmers, agriculturists, government organizations and interested people
2.8 <u>Department of Agricultural Extension</u>	
2.8.1 <u>Seed Division</u>	Farmers, agriculturists and government organizations
2.8.2 <u>Planning and Special Projects Division</u>	ditto
2.9 <u>The Cooperatives Promotion Department</u>	
2.9.1 <u>Office of Agricultural Economics</u>	
2.9.1.1 <u>Evaluation Division</u>	Farmers, livestock raisers and agriculturists
2.10 <u>Department of Agriculture</u>	
2.10.1 <u>Planning Division</u>	Government agencies and officials, farmers and agriculturists
2.10.2 <u>Rice Division</u>	Farmers and agriculturists
2.10.3 <u>Field Crop Division</u>	Farmers and agriculturists
2.10.4 <u>Horticulture Division</u>	Farmers, agriculturists and interested people
2.10.5 <u>Sericultural Division</u>	ditto
2.10.6 <u>Rubber Division</u>	Rubber industry and international organizations
2.10.7 <u>Agricultural Engineering Division</u>	Small industry, agriculturists and farmers
2.10.8 <u>Plant Pathology and Microbiology Division</u>	Other divisions of the Department and agriculturists
2.10.9 <u>Entomology and Zoology Division</u>	Farmers and agriculturists
2.10.10 <u>Agricultural Chemistry Division</u>	ditto
2.10.11 <u>Technical Division</u>	Government organizations and officials
2.10.12 <u>Agricultural Regulatory Division</u>	Farmers and agriculturists

Name of Institutions	Prime users
<p>3. <u>MINISTRY OF COMMUNICATION</u></p> <p>3.1 <u>Department of Land Transport</u></p> <p>3.1.1 <u>Transport Safety Division</u></p> <p>3.2 <u>Department of Highways</u></p> <p>3.2.1 <u>Materials and Research Division</u></p> <p>3.3 <u>Post and Telegraph Department</u></p> <p>3.3.1 <u>Planning Division</u></p> <p>3.3.2 <u>Office of Communication Research and Development</u></p> <p>3.4 <u>The Meteorological Department</u></p> <p>3.4.1 <u>Studies and Research Division</u></p> <p>3.4.2 <u>Agrometeorology Division</u></p> <p>3.4.2.1 <u>Agrometeorology Analysis Sub-Division</u></p>	<p>Government organizations and private sector</p> <p>Government officials, contractors and civil engineers</p> <p>Civil service and government organizations</p> <p>ditto</p> <p>Other related organizations inside and outside of the country</p> <p>Farmers, agriculturists and other institutions inside and outside of the country</p>
<p>4. <u>MINISTRY OF INTERIOR</u></p> <p>4.1 <u>The Bangkok Metropolis Administration</u></p> <p>4.1.1 <u>Bureau of Medical Services</u></p> <p>4.2 <u>Thai National Police Department</u></p> <p>4.2.1 <u>The Police General Hospital, Department of Pediatrics</u></p> <p>4.2.2 <u>The Police General Hospital, Department of Psychiatry and Drug Addiction</u></p> <p>4.3 <u>Department of Public Welfare</u></p> <p>4.3.1 <u>Hilltribe Welfare Division, Tribal Research Centre, Chiang Mai</u></p> <p>4.4 <u>Department of Labor</u></p> <p>4.4.1 <u>Labor Standards Division, Research and Science Laboratory Section</u></p>	<p>All types of patients</p> <p>Pediatric and allergic patients</p> <p>Psychiatric patients</p> <p>Government organizations and social workers</p> <p>Laborers and industrialists</p>

Name of Institutions	Prime users
4.5 <u>The Office of Accelerated Rural Department</u>	
4.5.1 <u>Research and Evaluation Division</u>	Government organizations, farmers and interested people
4.6 <u>Department of Town and Country Planning</u>	
4.6.1 <u>Regional Physical Planning Division</u>	Government organizations and interested people
5. <u>MINISTRY OF SCIENCE, TECHNOLOGY AND ENERGY</u>	
5.1 <u>Office of the Permanent Secretary of State</u>	
5.1.1 <u>Office of Science, Technology and Energy Policy and Planning</u>	Scientists, all agencies under the Ministry and government organizations
5.2 <u>Department of Science Service</u>	
5.2.1 <u>Research Division</u>	Government agencies, industry and interested people
5.2.2 <u>Biological Science Division</u>	ditto
5.2.3 <u>Division of Physics and Engineering</u>	ditto
5.3 <u>The National Research Council</u>	
5.3.1 <u>Remote Sensing Division</u>	Government organizations, State Enterprises, interested people and foreign countries
5.3.2 <u>National Biological Control Research</u>	Government Agencies, farmers and agriculturists
5.4 <u>Office of Atomic Energy for Peace</u>	
5.4.1 <u>Radiation Measurement Division</u>	Government agencies
5.4.2 <u>Waste Disposal Division</u>	Government agencies, industry, and agriculturists
5.4.3 <u>Health Physics Division</u>	Government agencies and industry
5.4.4 <u>Chemistry Division</u>	Government agencies, agriculturists, physicians, industrialists and scientists

Name of Institutions	Prime users
5.4.5 <u>Isotope Production Division</u>	Physicians, agriculturists, scientists and government agencies
5.4.6 <u>Physics Division</u>	Scientists
5.4.7 <u>Biological Science Division</u>	Agriculturists, physicians and government agencies
5.5 <u>The National Energy Administration</u>	
5.5.1 <u>Research and Power Development Division</u>	Industry, the public, and government agencies
5.6 <u>Thailand Institute of Scientific and Technological Research</u>	Industry, agriculture, university students and government agencies
6. <u>MINISTRY OF EDUCATION</u>	
6.1 <u>Department of Physical Education</u>	
6.1.1 <u>Division of Physical Education and Health Promotion</u>	
6.1.1.1 Physical Fitness Section	Teachers, students, sportsmen
6.2 <u>Institution of Technology and Vocational Education</u>	
6.2.1 <u>Faculty of Agriculture</u>	Students and interested people
6.2.2 <u>Phitsanulok Campus</u>	ditto
6.2.3 <u>Khon Kaen Campus</u>	ditto
6.2.4 <u>Agricultural Research and Training Center</u>	Students, agriculturists, farmers and interested people
7. <u>MINISTRY OF PUBLIC HEALTH</u>	
7.1 <u>Office of the Permanent Secretary of State</u>	
7.1.1 <u>Health Planning Division</u>	Government agencies and the public
7.1.2 <u>Division of Epidemiology</u>	
7.1.2.1 Research Section	Physicians, agriculturists and government agencies

Name of Institutions	Prime users
7.1.3 <u>Rural Health Division</u>	
7.1.3.1 Technical Section	
7.1.3.1.1 Operation Research Sub-Section	Government agencies and the public
7.1.4 <u>Health Education Division</u>	ditto
7.2 <u>Department of Medical Services</u>	
7.2.1 <u>Technical Division</u>	Physicians, nurses and patients
7.2.2 <u>Institute of Pathology</u>	Hospitals under the Ministry, national and foreign pathological units.
7.2.3 <u>National Cancer Institute</u>	Physicians, nurses, medical students, scientists, interested people and international institutions
7.2.4 <u>Institute of Dermatology</u>	Public and private agencies, physicians, nurses, scientists and foreign institutions
7.2.5 <u>Mental Health Division</u>	
7.2.5.1 Chiang Mai Neuropsychiatric Hospital	Psychiatric and neurologic patients
7.2.5.2 Yuvaprasart Child Psychiatric Hospital	Patients, physicians, nurses and students
7.2.5.3 Suanprang Hospital Chiang Mai	ditto
7.2.5.4 Suansranrom Psychiatric Hospital	ditto
7.2.5.5 Rajanukul Hospital	Retardates hospital personnel, government officials, students and pupils
7.2.5.6 Buddhist Monks' Hospital	Priests and novices
7.2.5.7 Somdet Chaopraya Hospital	Psychiatric and neurologic patients, other psychiatric institutions
7.2.5.8 Prasart Hospital	Patients, physicians, nurses and students in psychiatry
7.2.5.9 Rajvithi Hospital	Patients, hospitals and industrial factories
7.3 <u>Department of Communicable Disease Control</u>	
7.3.1 <u>V.D. Control Division</u>	Physicians, nurses, public health personnel, medical students and other related units

Name of Institutions	Prime users
7.3.2 <u>Malaria Division</u>	Government agencies and the public
7.3.3 <u>Division of Communicable Diseases</u>	
7.3.3.1 Zoonoses Section	Farmers, agriculturists and livestock raisers
7.3.3.2 Helminthiasis Section	Government agencies and physicians
7.3.4 <u>Division of Filariasis</u>	ditto
7.3.5 Rajpracha Samasai Institutes	Lepers and physicians
7.4 <u>Department of Medical Sciences</u>	
7.4.1 <u>Division of Medical Entomology</u>	Physicians and biologists
7.4.2 <u>Division of Clinical Pathology</u>	Physicians and hospitals
7.4.3 <u>Division of Toxicology</u>	Laborers, industrialists, agriculturists
7.4.4 <u>Drug Analysis Division</u>	Government agencies, pharmacists and physicians
7.4.5 <u>Food Analysis Division</u>	Government agencies and the public
7.4.6 <u>Division of Medical Research</u>	Physicians, pharmacists and scientists
7.4.7 <u>Virus Research Institute</u>	Government and private agencies and physicians
7.5 <u>Department of Health</u>	
7.5.1 <u>Dental Health Division</u>	Government agencies, dentists and the public
7.5.2 <u>Nutrition Division</u>	Government agencies and foreign institutions
7.5.3 <u>School Health Division</u>	Public Health personnel, teachers, students and pupils
7.5.4 <u>Environmental Health Division</u>	Government organizations
7.5.5 <u>Occupational Health Division</u>	People in every occupation

Name of Institutions	Prime users
8. <u>MINISTRY OF INDUSTRY</u>	
8.1 <u>Office of the Permanent Secretary of State</u>	
8.1.1 <u>Industrial Economics and Planning Division</u>	Industry, government agencies and private enterprises
8.1.2 <u>Agriculture Division</u>	
8.1.2.1 <u>The sugar Institute</u>	Sugar cane farmers, sugar industry and agriculturists
8.2 <u>Department of Mineral Resources</u>	
8.2.1 <u>Mining Technology Division</u>	
8.2.1.1 <u>Mineral Processing Section</u>	Miners, industrialists and government agencies
8.2.1.2 <u>Environment Section</u>	Government units and miners
8.2.2 <u>Ground Water Division</u>	Industry, agriculturists, foreign organizations and related people
8.2.3 <u>Metallurgy Division</u>	
8.2.3.1 <u>Metallurgy Research Section</u>	Metal industry, especially small-scale factories
8.2.4 <u>Geological Survey Division</u>	
8.2.4.1 <u>Analysis Chemistry Section</u>	Government organizations and environmentalists
8.2.5 <u>Mineral Resources Center 3</u>	Mining industry and government organization
8.2.6 <u>Mineral Resources Center 1</u>	Government organizations
8.3 <u>Department of Industrial Works</u>	
8.3.1 <u>Industrial Environment Division</u>	
8.3.1.1 <u>Technical Sub-Division</u>	Industry and government agencies
8.4 <u>Department of Industrial Promotion</u>	
8.4.1 <u>Industrial Service Institute Northern Region</u>	ditto
8.4.2 <u>Industrial Productivity Division</u>	Industrialists, agriculturists and government organizations
8.4.3 <u>Thai Handicraft Promotion Division, Product Design & Development</u>	Home industry

Name of Institutions	Prime users
9. <u>MINISTRY OF UNIVERSITY AFFAIRS</u>	
9.1 <u>Chulalongkorn University</u>	
9.1.1 <u>Faculty of Dentistry</u>	Students, dentists and dental patients
9.1.2 <u>Faculty of Medicine</u>	Students, physicians and patients
9.1.3 <u>Faculty of Pharmaceutical Science</u>	Students, pharmacists and interested people
9.1.4 <u>Faculty of Science</u>	Science students, scientists and interested people
9.1.5 <u>Faculty of Engineering, Engineering Institute of Research and Development</u>	Students, engineers, faculty staff, other faculties and government agencies
9.1.6 <u>Institute of Health Research</u>	Physicians and medical scientists
9.1.7 <u>Institute of Environmental Research</u>	Industry, government agencies, environmentalists and interested people
9.1.8 <u>Research Affairs, Sichang Marine Science Research Station and Training Center</u>	Students, fishermen
9.1.9 <u>Institute of Computer Service</u>	Chulalongkorn University and its students, other government agencies and private enterprises
9.1.10 <u>The Scientific and Technological Research Equipment Centre</u>	Researchers, scientists, industry, government agencies and private enterprises
9.2 <u>Kasetsart University</u>	
9.2.1 <u>Faculty of Agriculture</u>	Students, agriculturists, farmers, and government units
9.2.2 <u>Faculty of Fisheries</u>	Students, agriculturists, fishermen and interested people
9.2.3 <u>Faculty of Forestry</u>	Students, silviculturists, agriculturists, environmentalists and forest product industry
9.2.4 <u>Faculty of Engineering</u>	Students, engineers and industry
9.2.5 <u>Faculty of Science and Arts</u>	Students and interested people
9.2.6 <u>Faculty of Veterinary Science</u>	Students, veterinarians, agriculturists and interested people
9.2.7 <u>Faculty of Agro Industry</u>	Students, agriculturists, industry, government units and the public

Name of Institutions	Prime users
9.2.8 <u>National Corn and Sorghum Research Center</u>	Farmers, agriculturists, and livestock raisers
9.2.9 <u>Institute of Food Research and Product Development</u>	Public and private sectors, students and house-wives
9.2.10 <u>Highland Agriculture Project, Kasetsart University Research and Development Institute</u>	Government agencies and hilltribe people
9.2.11 <u>Extension and Training Office</u>	Departments in the Ministry, government officials, teachers, students and interested people
9.3 <u>Khon Kaen University</u>	
9.3.1 <u>Faculty of Agriculture</u>	Students and farmers
9.3.2 <u>Faculty of Associated Medical Sciences</u>	Students, medical technologists, physicians, and interested people
9.3.3 <u>Faculty of Nursing</u>	Students, nurses, physicians and education institutions
9.3.4 <u>Faculty of Medicine</u>	Students, physicians and patients
9.3.5 <u>Faculty of Science</u>	Students, teachers, scientists and interested people
9.3.6 <u>Faculty of Engineering</u>	Students, engineers and interested people
9.4 <u>Chiang Mai University</u>	
9.4.1 <u>Faculty of Agriculture</u>	Students, agriculturists, farmers, and interested people
9.4.2 <u>Faculty of Associated Medical Sciences</u>	Students, medical technologists, physicians, patients and interested people
9.4.3 <u>Faculty of Nursing</u>	Students, nurses, physicians and education institutions
9.4.4 <u>Faculty of Medicine</u>	Students, physicians and patients
9.4.5 <u>Faculty of Pharmacy</u>	Students, pharmacists and interested people
9.4.6 <u>Faculty of Science</u>	Students, teachers, scientists and interested people
9.4.7 <u>Faculty of Engineering</u>	Students, engineers and interested people
9.4.8 <u>Research Institute for Health Sciences</u>	Teaching staff and interested people
9.5 <u>Mahidol University</u>	
9.5.1 <u>Faculty of Dentistry</u>	Students, dental technicians, dentists and interested people

Name of Institutions	Prime users
9.5.2 <u>Faculty of Medical Technology</u>	Students, medical technologists, physicians and interested people
9.5.3 <u>Faculty of Nursing</u>	Students, nurses, physicians and education institutions
9.5.4 <u>Faculty of Medicine, Siriraj Hospital</u>	Students, physicians and patients
9.5.5 <u>Faculty of Medicine, Ramathibodi Hospital</u>	Students, physicians, medical technologists and patients
9.5.6 <u>Faculty of Science</u>	Students, teachers, scientists and interested people
9.5.7 <u>Faculty of Pharmacy</u>	Students, pharmacists and interested people
9.5.8 <u>Faculty of Tropical Medicine</u>	Students, patients, other government agencies and South East Asian countries
9.5.9 <u>Faculty of Public Health</u>	Students, public health officials and interested people
9.5.10 <u>Faculty of Environment and Resource Studies</u>	Students and government agencies
9.5.11 <u>Research Center Ramathibodi Hospital, Faculty of Medicine Ramathibodi</u>	Faculties of medicine in other universities, hospitals
9.5.12 <u>Institute of Nutrition</u>	Nutritionists, food technologists, scientists, patients and government agencies
9.6 <u>Srinakharinwirot University</u>	
9.6.1 <u>Faculty of Sciences</u>	Students, scientists and government agencies
9.6.2 <u>Faculty of Sciences (Pathumwan Campus)</u>	ditto
9.6.3 <u>Faculty of Sciences (Bangkhen Campus)</u>	ditto
9.6.4 <u>Faculty of Sciences (Bang Saen Campus)</u>	ditto
9.6.5 <u>Faculty of Sciences (Phitsanulok Campus)</u>	ditto
9.6.6 <u>Faculty of Sciences (Maha Sarakharm Campus)</u>	ditto
9.6.7 <u>Faculty of Sciences (Songkhla Campus)</u>	ditto

Name of Institutions	Prime users
9.7 <u>Silpakorn University</u>	
9.7.1 <u>Faculty of Science</u>	Students, scientists and government agencies
9.7.2 <u>Faculty of Architecture</u>	Students
9.8 <u>Prince of Songkla University</u>	
9.8.1 <u>Faculty of Natural Resources</u>	Student, agriculturists and environmentalists
9.8.2 <u>Faculty of Medicine</u>	Students, physicians and patients
9.8.3 <u>Faculty of Science</u>	Students, scientists and government agencies
9.8.4 <u>Faculty of Engineering</u>	Students, engineers, faculty staff, other faculties and government agencies
9.9 <u>National Institute of Development Administration</u>	
9.9.1 <u>School of Applied Statistic</u>	Students and the teaching staff of the Institute
9.10 <u>King Mongkut's Institute of Technology</u>	
9.10.1 <u>Thonburi Campus</u>	
9.10.1.1 <u>Faculty of Engineering</u>	Students, government agencies, state enterprises and the public
9.10.1.2 <u>School of Energy & Material</u>	Students and researchers
9.10.2 <u>North Bangkok Campus</u>	
9.10.2.1 <u>Faculty of Engineering</u>	The same as in 9.10.1.1
9.10.2.2 <u>Faculty of Industrial Education and Science 2</u>	Students
9.10.3 <u>Chao Khun Taharn Ladkabang Campus</u>	
9.10.3.1 <u>Faculty of Engineering</u>	The same as in 9.10.1.1
9.11 <u>Maejo Institute of Agricultural Technology</u>	
9.11.1 <u>Faculty of Agricultural Business</u>	Students, agriculturists and farmers
9.11.2 <u>Faculty of Agricultural Production</u>	Students, agriculturists and farmers
9.11.3 <u>Office of Agricultural Research and Extension</u>	Agriculturists, farmers and other government agencies

Name of Institutions	Prime users
II. <u>STATE ENTERPRISES</u>	
1. <u>ELECTRICITY GENERATING AUTHORITY OF THAILAND</u>	
1.1 <u>Planning Department Research and Development</u>	Public and private sectors
2. <u>SPORTS ORGANIZATION OF THAILAND</u>	
2.1 <u>Sport Science Center</u>	Sportsmen, students and interested people
3. <u>THAILAND TOBACCO MONOPOLY</u>	
3.1 <u>Research Department</u>	The public
4. <u>NATIONAL HOUSING AUTHORITY</u>	
4.1 <u>Research and Constructions Department</u>	
4.1.1 <u>Research and Construction Division</u>	ditto
5. <u>EXPRESSWAY AND RAPID TRANSIT AUTHORITY OF THAILAND</u>	ditto
6. <u>METROPOLITAN WATER WORKS AUTHORITY</u>	ditto
6.1 <u>Research and Development Division</u>	ditto
7. <u>THAILAND INSTITUTE OF SCIENTIFIC AND TECHNOLOGICAL RESEARCH</u>	Industry, government, university students, agriculturists, farmers and hilltribes people
8. <u>THE INSTITUTE FOR THE PROMOTION OF TEACHING SCIENCE AND TECHNOLOGY</u>	Teachers, university teaching staff, students and scientists

Name of Institutions	Prime users
III. <u>PRIVATE SECTOR</u>	
1. <u>Asian Institute of Technology</u>	Students, engineers, scientists, South East Asian countries, foreign governments and international organizations
2. <u>Science Society of Thailand</u>	Scientists, teachers, students, and Ministry of Science, Technology and Energy
3. <u>Agricultural Science Society of Thailand</u>	Agriculturists, farmers, scientists, students and Ministry of Agriculture
4. <u>Engineering Institute of Thailand</u>	Engineers, students, industry and government agencies
5. <u>Medical Association of Thailand</u>	Physicians and Ministry of Public Health

CRITERIA FOR SELECTING AND INITIATING RESEARCH PROJECTS.

Since the past two decades, scientific research and technological development have been directed toward potential industrial application and mission accomplishment in governmental activities. Normally, research conducted in the country can be categorized into 3 types namely basic research, applied research and experimental development either on the basis of national or individual requirement.

Researches based on the national requirement normally follow the target as set forth in the National Economic and Social Development Plan (The Five Year Plan) which stresses the need for exploitation of natural resources, promotion of agro-industries and development of rural areas to ensure national economic and social stability.

Owing to this fact the said researches must have impacts on employment, output consumption, savings, foreign exchange earning, income distribution, and any other factors relevant to national objectives.

In more specific cases researches conducted by special agreement are aiming at new products, improvements of existing products or processes and feasibility to generate new enterprises which best satisfy the objective of the industrial sector.

METHODS AND PRACTICES FOR CONTACTING POTENTIAL USERS OF RESEARCH AND FOR CHARGING THE USERS OF THIS SERVICE

As a common practice, government agencies carry out their duties for the sake of public welfare. Any result from the activities such as scientific and technological survey, experiment, research, etc. is used to enhance their efficiency and quality of service to the public. The said result may be disseminated to the public mostly free of charge by means of publications or demonstrations with the aid of extension service officials. Whenever government service is rendered for the benefit of individuals or a small group of people like a business company, a nominal charge is levied according to the schedule of fees which are revised once in a long while.

From the contents of this directory it is evident that practically all of the scientific and technological institutions in Thailand are government agencies and therefore, provide their research service in the same manner as described previously.

Even though the remaining few institutions which deal with scientific and technological research are not government agencies in the correct sense, they are state enterprises, each being supervised by a ministry. Of these state enterprises only the Thailand Institute of Scientific and Technological Research (TISTR) under the jurisdiction of the Ministry of Science, Technology and Energy is running a full-fledged research service for the need of the government and the public. Research done in compliance with the requirement of the Ministry or the Cabinet is usually supported by a special budget or free of charge, if covered by the program of work and budget. If the research is performed at the request of a government agency, expenses for the provision of this service will be borne by that agency under some term of agreement.

Regarding service to the private sector TISTR keeps in contact especially with industry through inquiries received from firms which need information or assistance. In those areas where TISTR has competence, investigational work arising from these inquiries may be undertaken. Under its charter, TISTR can undertake small-scale works or enter into contracts with clients to carry out projects on a confidential basis and to charge clients for research conducted according to the schedule of fees described in the TISTR regulation for provision of service dated B.E. 2526 (A.D. 1983). Besides rendering research service to users upon request, TISTR is making arrangement for approaching potential users to offer its service.

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