

ANNEX II

Organization and Function Chart for the National
Animal Health and Production Institute (NAHPI)

Existing Laboratories		NAHPI	(Proposed No. of Staff)
		(Existing No. of Staff)	
1. Division of Veterinary Research			
1) Bacteriology laboratory	(14)	1. BACTERIOLOGY	33
2) Virology laboratory	(12)	2. VIROLOGY	30
3) Parasitology	(11)	3. PARASITOLOGY	28
4) Pathology	(6)	4. PATHOLOGY	22
5) Toxicology	(12)	5. BIOCHEMISTRY	48
6) Epidemiology	(9)		
7) Immunology	(8)		

-Regional Veterinary Diagnostic Centers

Khon Kaen, Tung Song, Lumpung

2. Division of Veterinary Biologics

-Veterinary Biologics Center, Pak Chong

3. Division of Animal Nutrition (11)

Laboratories (7)

4. Division of Disease Control

Laboratories (4)

-Animal Products Residue

5. Division of Veterinary Service

Poultry disease laboratory

6. Division of Feed Quality Control

Laboratories (4)

-Chemical (8)

-Physical

-Microbiological

-Biochemistry

ANNEX IV

Personnel Assignment Chart for the National Animal Health and Production Institute

I.	RESEARCH LABORATORIES	<u>Vet.</u>	<u>Scientist</u>	<u>Para.Vet</u>	<u>Worker</u>	<u>Other</u>	<u>Total</u>
1.	BACTERIOLOGY	10	10	6	7	-	<u>33</u>
	1) Aerobic bacteria						
	2) Anaerobic bacteria and Enterobacteria						
	3) Mycoplasma and Mycobacteria						
	4) Fungi						
2.	VIROLOGY	10	9	5	6	-	<u>30</u>
	1) Bovine disease						
	2) swine disease						
	3) Poultry disease						
	4) Special studies						
3.	PARASITOLOGY	8	9	5	6	-	<u>28</u>
	1) Ecto-parasitology						
	2) Endo-parasitology						
	3) Protozoa						
	4) Epidemiology						
4.	PATHOLOGY	7	7	4	4	-	<u>22</u>
	1) General pathology						
	2) Clinical pathology						
	3) Immuno-pathology						
5.	BIOCHEMISTRY	15	15	8	10	-	<u>48</u>
	1) Toxicology						
	2) Clinical biochemistry						
	3) Immuno-chemistry						
	4) Feed quality and Safety						

6. ANIMAL EXPERIMENT

"Number of personnel is included at Virology labo."

	<u>Vet.</u>	<u>Scientist</u>	<u>Para-Vet</u>	<u>Worker</u>	<u>Adm. staff</u>	<u>Total</u>
II. ADMINISTRATION						
Director of the Institute						
1. General Affairs	3	11	-	20	8	42
1) General affairs						
2) Personnel						
3) Accountant						
4) Maintenance and Procurement						
2. Planning and Co-ordination	2	3	1	3	3	12
1) Planning						
2) Coordination						
3. Training and Extension	-	2	1	1	2	6
1) Training						
2) Extension						
4. Information Center	1	4	-	4	5	14
1) Statistics						
2) Information						
3) Publication						
4) Library						
<u>GRAND TOTAL</u>	<u>56</u>	<u>70</u>	<u>30</u>	<u>61</u>	<u>18</u>	<u>235</u>

(2) 基本設計確認調査

1) 調査団の編成

団 長	米 村 弘	家畜衛生試験場企画連絡室 連絡科長
計 画 調 整	四 釜 嘉 総	国際協力事業団無償資金協力部 基本設計課
建 築 計 画	畑 清	(株) 日 建 設 計
機 材 計 画	本 橋 常 正	(株) 日 建 設 計
建 築 設 計	瀬 川 寛	(株) 日 建 設 計

2) 調 査 日 程

1984年

- 12月18日(火) ・ 東京発 バンコック着
- 12月19日(水) ・ JICAバンコック事務所、大使館報告、DTEC表敬
DLD表敬、ドラフトリポート提出
- 12月20日(木) ・ DLD協議 第1回 JOINT MEETING
リポート説明、プロジェクトサイト視察
及びDLD各部と詳細打合せ
- 12月21日(金) ・ DLDと協議; 第2回 JOINT MEETING
リポート質疑応答、DLD各部と詳細打合せ(つづき)
- 12月22日(土) ・ 上記議事結果まとめリポート訂正、追記作業
- 12月23日(日) ・ 同上及び無償案件現場視察
- 12月24日(月) ・ DLDミニッツドラフト協議、DLD各部と詳細打合せ
ミニッツ調印、JICA事務所、大使館報告
- 12月25日(火) ・ バンコック発 東京着

MINUTES OF DISCUSSIONS
ON
THE DRAFT FINAL REPORT OF THE BASIC DESIGN STUDY
ON
THE ESTABLISHMENT OF THE NATIONAL ANIMAL HEALTH
AND PRODUCTION INSTITUTE
IN
THE KINGDOM OF THAILAND

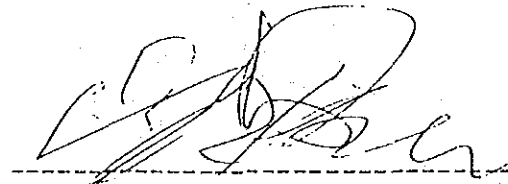
The Government of Japan has sent, through Japan International Cooperation Agency (JICA), a Mission to the Kingdom of Thailand from December 18th to 25th, 1984, for the purpose of presenting and explaining the Draft Final Report of the Basic Design Study (The Report) on the Project.

The team held meetings with the authorities concerned of Thai side headed by Dr. Pinit Suphavitai, Deputy Director-General, Department of Livestock Development, Ministry of Agriculture and Cooperatives, to explain and to discuss on the Report.

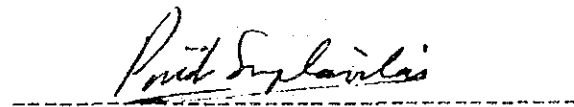
The main items which were discussed and understood by both parties at the meetings are as follows:

1. The Thai side principally agreed upon the Report and appropriate alterations in design the discussions which will be incorporated in the Final Report.
2. The Final Report (10 copies in English) on the Project will be submitted to the Government of Thailand by the end of February, 1985.
3. Both sides confirmed that the Thai side understood the system of Grant Aid Programme to be extended by the Government of Japan especially the arrangements to be taken by the Government of Thailand as agreed in the Minutes for the Project dated September 28th, 1984.

Bangkok, December 24th, 1984



Mr. Hiroshi Yonemura
Leader,
Japanese Study Team



Dr. Pinit Suphavitai
Deputy Director-General
Department of Livestock Development
Ministry of Agriculture and Cooperatives

Schedule for removing the existing
facilities and earth filling of the project site

-
- | | | |
|------------|---|--|
| Jan. 2, 85 | - | Start removing the existing facilities |
| Jan. 3, 85 | - | Tendering and contract for earth filling |
| Feb. 4, 85 | - | Start earth filling |
-

SUPPLEMENT TO THE DRAFT FINAL REPORT OF BASIC DESIGN STUDY FOR THE
CONSTRUCTION OF NATIONAL ANIMAL HEALTH AND PRODUCTION INSTITUTE

1. Site preparation works shall be undertaken by Thai side

It was confirmed that the removal of the existing facilities of Pig breeding station will be commenced on January 2nd 1985 and completed by the start of the construction by Japanese side. The earth filling of the site also will be started immediately according to the attached schedule furnished from Thai side. The foot path, proposed in the draft final report to be constructed along the boundary at south side of the site in lieu of the existing foot path running along south side of the site will not be constructed. Thai side shall arrange immediately necessary procedure to follow the project schedule.

2. Personnel Assignment

It was confirmed that Thai side provide the personnel assignment according to the proposed allocation plan described in the Final draft report of this project (page 3-13 and 5-3) by the time of the completion of the construction for this project and Thai side shall take necessary arrangement for budgeting.

3. Revision and Addition to Draft Report of the Basic Design Study

The Draft Report will be revised and added according to the discussion of the meetings as listed in the attached sheets.

(3) タイ国政府関係者リスト

1. Department of Technical and Economic Cooperation (DTEC)

Mr. Kasem Unahasuan	Deputy Director-General
Mr. Sutin Susila	Member Colombo Plan Sub-Division
Mr. Surayuth Kungsadan	Member Colombo Plan Sub-Division

2. Ministry of Agriculture and Cooperatives

Mr. Chote Suvipakit	Director, Foreign Agriculture Relations Division, Office of Permanent Secretary
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3. Department of Livestock Development

Dr. Tim Bhannasiri	Director General
Mr. Vitoon Khumnirdpetch	Deputy director General (Livestock)
Dr. Pinit Suphavitai	Deputy Director General (Administration)
Dr. Piya Aranyakananda	Deputy Director General (Technology)

1) Division of Planning

Dr. Siriwat Sarobol	Director
Dr. Vises Presert	Chief, International Cooperation Office
Dr. Samran Tapwichien	Staff
Miss Chiraporn Sapakit	Staff
Miss Kannika Ruenparch	Staff
Dr. Anong Bintawihok	Staff (Toxicology Section)

- 2) Division of Personnel
- | | |
|------------------------|----------|
| Dr. Ubol Srisomboon | Director |
| Dr. Jamlong Poompakdes | Staff |
- 3) Division of Financial
- | | |
|----------------------|-------|
| Mrs. Lamai Chatniyom | Staff |
|----------------------|-------|
- 4) Division of General Affairs
- | | |
|------------------------|--|
| Dr. Reanchai Bintvihok | |
|------------------------|--|
- 5) Division of Disease Control, DLD
- | | |
|-----------------------|-------------------------------------|
| Dr. Sapon Muangchroen | Director |
| Dr. Utis Musigo | Chief, Eradication Diseases Section |
- 6) Division of Veterinary Service
- | | |
|------------------------|-------|
| Dr. Chaweewan Leawijak | Staff |
|------------------------|-------|
- 7) Division of Veterinary Biologics Production
- | | |
|-------------------------|----------|
| Dr. Smarn Pipthkul | Director |
| Dr. Watana Srisongmuang | Staff |
- 8) Division of Veterinary Research, DLD
- | | |
|-----------------------------|-----------------------------|
| Dr. Sutham Bunya-upapat | Director |
| Dr. (Ms) Urasri Tantaswasdi | Chief, Virology Section |
| Dr. Vichitr Sukhapisna | Chief, Parasitology Section |
| Dr. Prapahd Neramitmansook | Rep. Bacteriology Section |

Dr. (Ms)Wallapa Santivatr	Rep. Bacteriology Section
Dr. (Ms)Anong Binthavihok	Toxicology and Biochenistry Section
Dr. Chaowana Mekgamol	Epidemiology Section
Dr. Somboon sutherland	Chief, Pathology Section

9) Division of Animal Nutrition, DLD

Dr. Panudej Sutad Na Ayunhaya	Director
Miss Nisa Sobhon	Staff

10) Division of Feed Registration and Quality Control

Dr. (Ms)Yuantar Pruksaraj	director
Mrs. Cherdchai Thiratinrat	Scientist
Mr. Dumri Haisupa	Engineer, Design Section Office of Department Secretariat, DLD

11) Division of Livestock Extension

Dr. Suwit Ponlarp	Director
Mrs. Chataporn Kongsair	Staff

12) Bangkhen Pig Breeding centre, DLD

Dr. Samrit Sanbua	Director
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10. Khonkaen Veterinary Diagnostic centre, DLD

Dr. Prakrit Chongwatanakul	Director (Epidemiology)
Dr. Karl-Friedrich Lohr	Project Manager (Veterinary Pathologist) Thai-German Animal Health Project

13) Vererinary Biologics Centre, Pak Chong

Dr. Sala Kongmak Director

Dr. Chai Iomkoh Chief, Virus Vaccine Section

14) Foot-and-Mouth Disease Vaccine Production Centre, Pak Chong

Dr. Ab Kongthon

Dr. Suneejit Kongthon Chief, FMD Vaccine Control Section

(4) 統計資料

1) 牛及び水牛の飼養分布状況

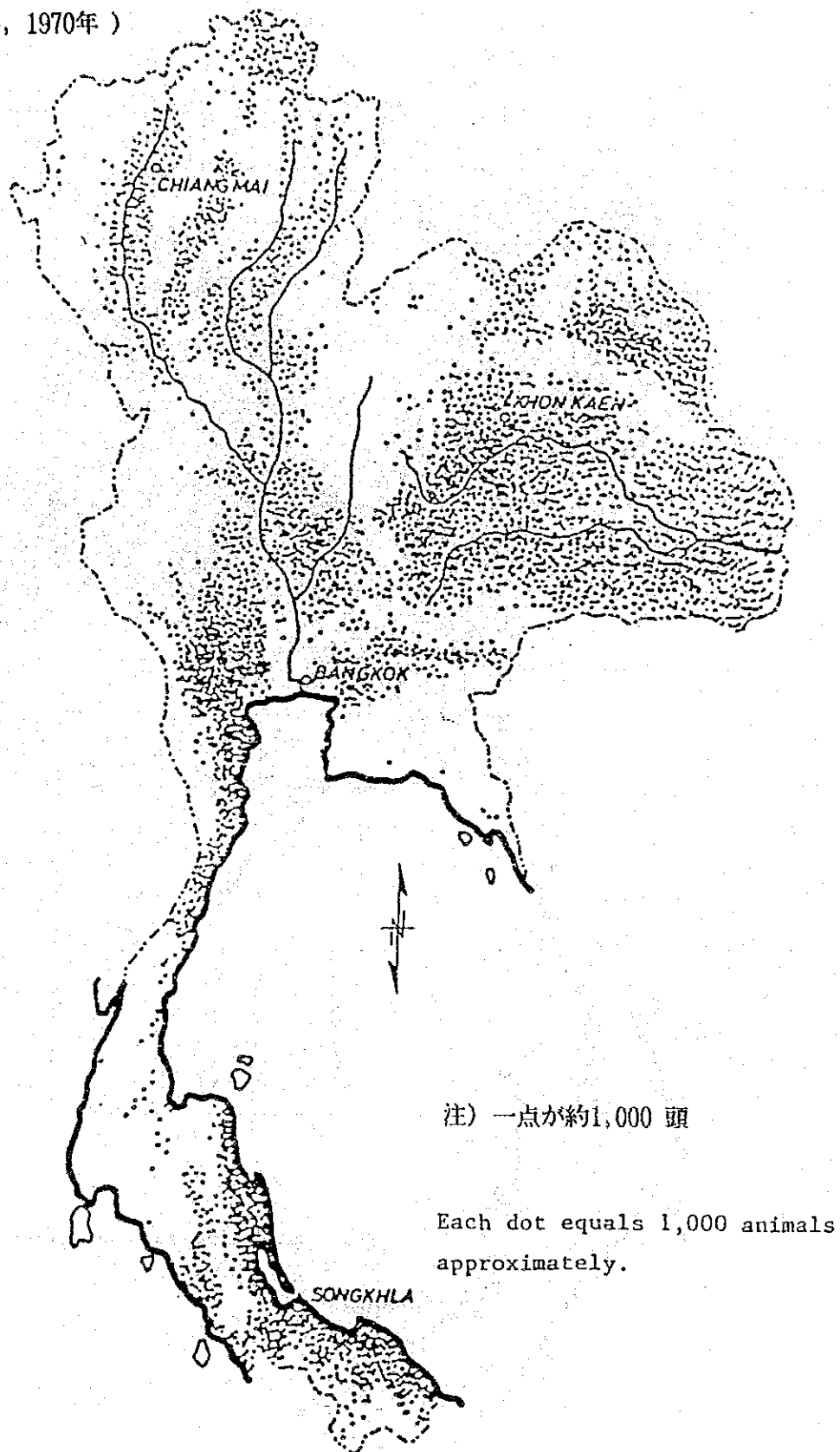
2) 牛乳の生産量

3) 炭疽及び出血性敗血症の発生分布状況

4) DLD傘下の各種組織名と所在地

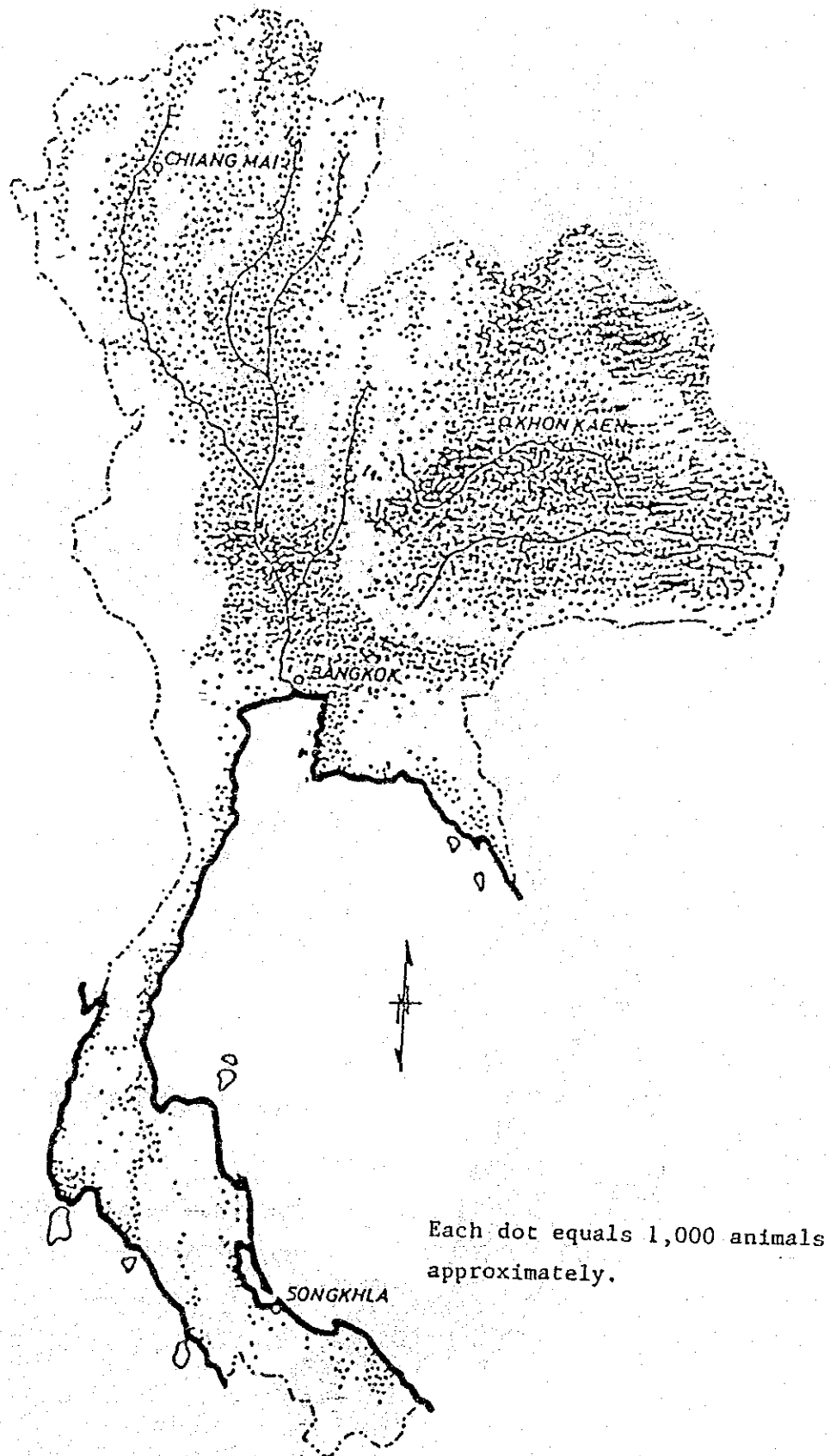
1) 牛及び水牛の飼養分布状況

(牛, 1970年)



Source: The five faces of Thailand, an economic geography. W. Donner, 1978.

(水牛, 1970年)



Source: The five faces of Thailand, an economic geography. W. Donner, 1978.

2) 牛乳の生産量 (1982 年)

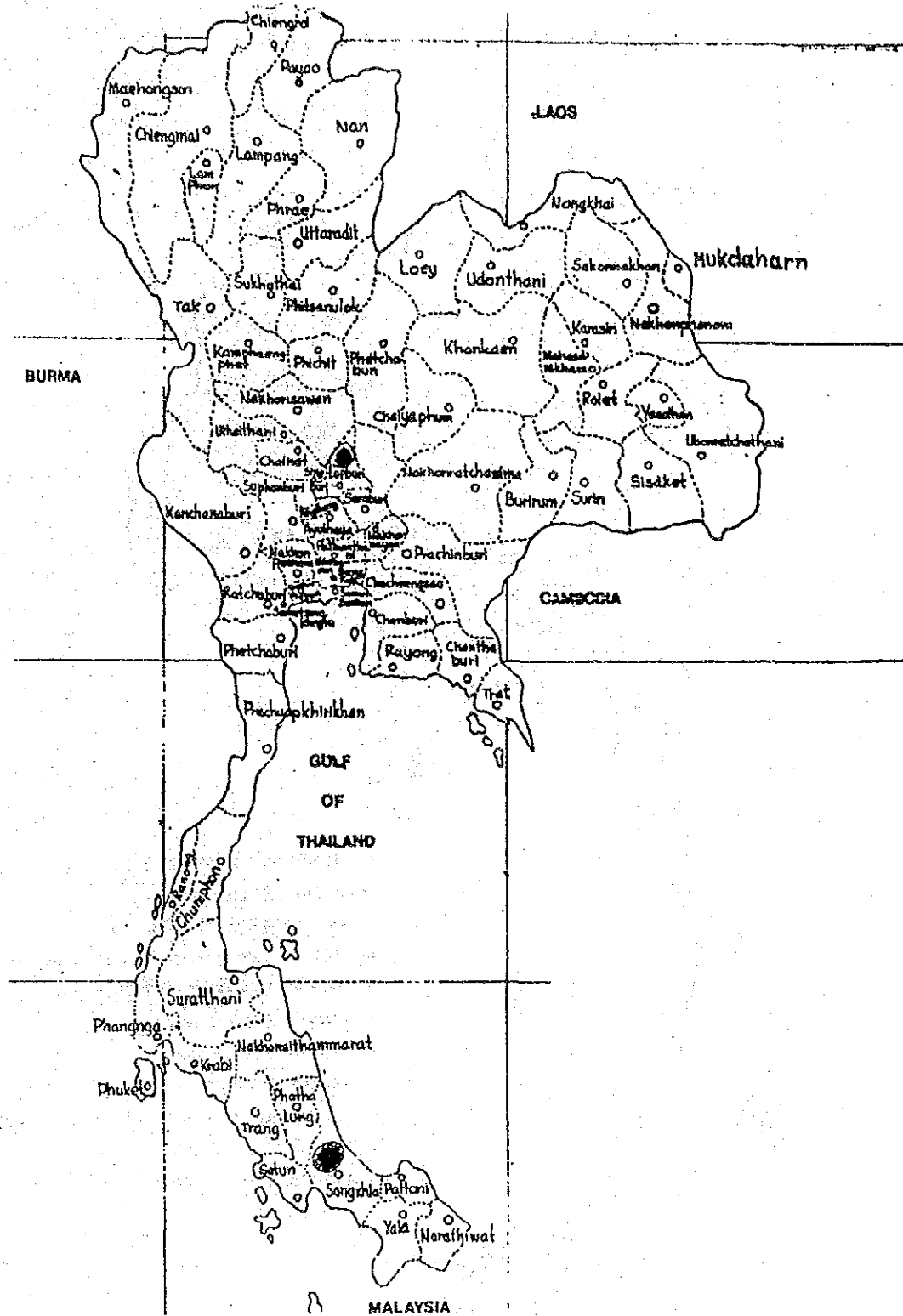
แหล่งผลิต	ปริมาณน้ำนมดิบ					
	มกราคม January	กุมภาพันธ์ February	มีนาคม March	เมษายน April	พฤษภาคม May	มิถุนายน June
อ.ส.ค. เขตมวกเหล็ก	911.9	849.2	970.5	1,074.9	1,218.6	1,281.7
อ.ส.ค. เขตประจวบคีรีขันธ์	85.8	84.0	118.3	139.7	149.9	149.3
อ.ส.ค. เขตเชียงใหม่	72.7	64.6	71.5	72.9	82.5	83.2
สหกรณ์โคนมหนองโพจำกัด	784.2	709.2	771.3	786.0	821.6	785.9
สหกรณ์โคนมอยุธยา	69.4	60.0	65.3	65.3	62.7	63.5
สหกรณ์โคนมนครปฐม	16.6	14.2	16.3	17.7	19.4	17.4
มหาวิทยาลัยเกษตรศาสตร์	4.3	3.7	5.4	5.7	5.3	5.1
รวมทั้งหมด	1,944.9	1,784.9	2,018.6	2,162.2	2,360.0	2,386.1
เฉลี่ย ตัน/วัน	62.7	63.7	65.1	72.1	76.1	79.5

Quantity of Fresh Milk						รวม Total	Area
กรกฎาคม July	สิงหาคม August	กันยายน September	ตุลาคม October	พฤศจิกายน November	ธันวาคม December		
1,332.3	1,302.5	1,206.0	1,276.0	1,224.8	1,255.1	13,903.5	D.F.P.O. (Muanglek)
161.8	171.0	170.0	197.6	205.8	225.9	1,859.1	D.F.P.O. (Prachuap Khiri Khan)
79.6	74.2	68.5	83.3	90.6	91.1	934.7	D.F.P.O. (Chiang Mai)
781.5	765.0	738.4	800.2	799.6	831.2	9,374.1	Nong-Po Cooperative
59.9	49.2	42.9	50.9	57.3	66.0	712.4	Ayutthaya Cooperative
15.7	17.1	17.0	14.3	11.2	13.7	190.6	Nakhon Pathom Cooperative
5.7	4.7	3.8	3.6	2.9	3.7	53.9	Kasetsart University
2,436.5	2,383.7	2,246.6	2,425.0	2,302.2	2,486.7	27,028.3	Total
78.6	76.9	74.9	78.3	79.7	80.2	74.1	Average Ton/Day

Unit : tons

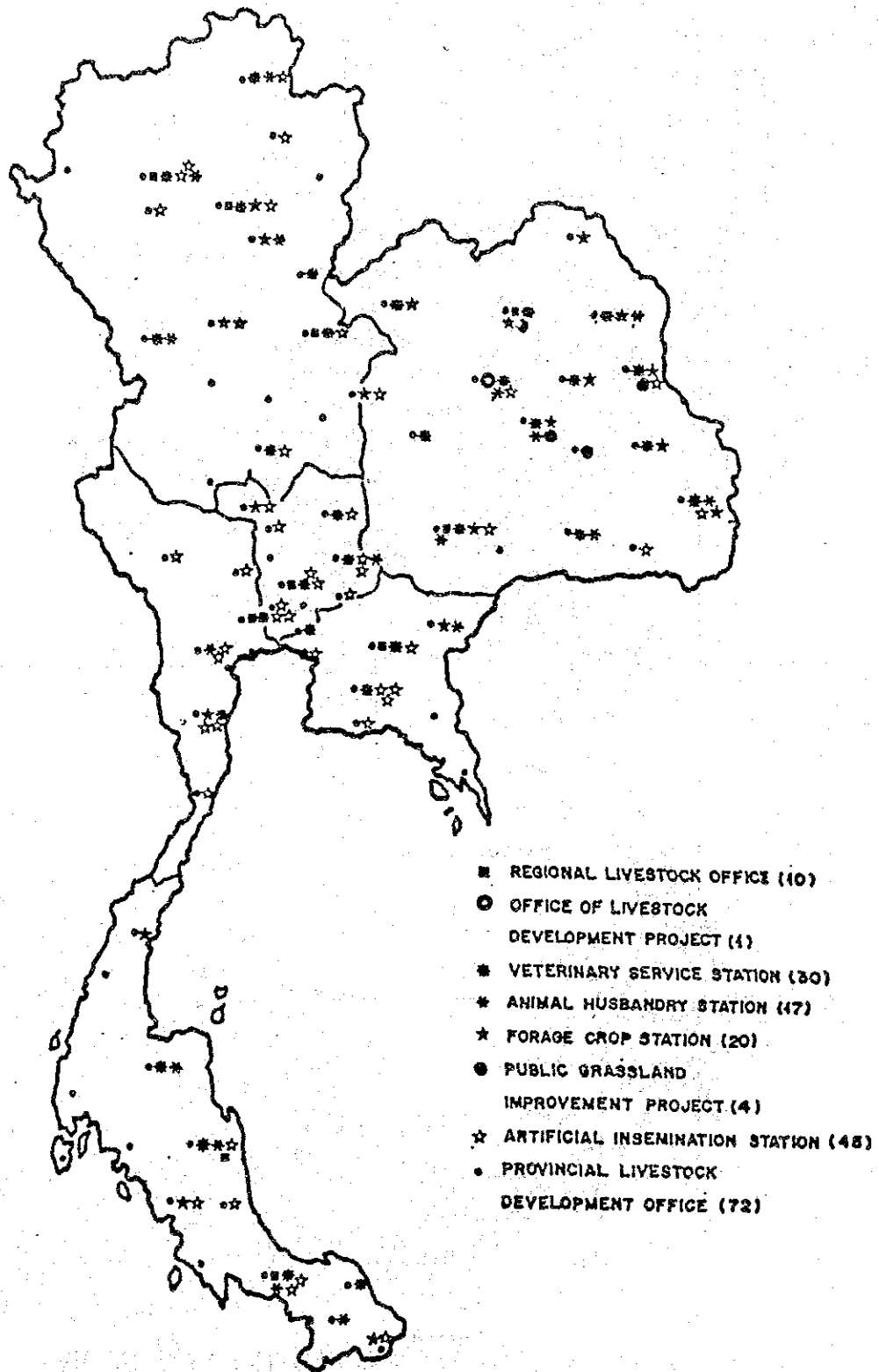
D.F.P.O = Dairy Farming Promotion Organization of Thailand .

(出血性敗血症, 1984年)



EPIDEMIC DISEASE REPORTS OF HAEMORRHAGIC SEPTICAEMIA
IN THE CALENDAR YEAR, 1984.

4) DLD傘下の各種組織名と所在地



(資料DLD)

WATER ANALYSIS REPORT

Item	Sample Name	Deep Well*		
Sampling Date		19-9-84		
Appearance				
Turbidity				
Color				
P H		7.03		
Electric Conductivity ($\mu\text{m/cm}$)		665		
Total Solid (p.p.m. as NaCl)		665 \times 1.65		
Total Hardness (p.p.m. as CaCO_3)		120.0		
Calcium Hardness (p.p.m. as CaCO_3)				
Total Iron (p.p.m. as Fe)		0.31		
M-Alkalinity (p.p.m. as CaCO_3)		290.0		
P-Alkalinity (p.p.m. as CaCO_3)				
Chloride Ion (p.p.m. as Cl)		8.5		
Sulfate Ion (p.p.m. as SO_4^{2-})		5.4		
Silica (p.p.m. as SiO_2)		40.4		
Phosphate Ion (p.p.m. as PO_4^{3-})				
Chemical Oxygen Demand				
Manganese (Mn^{+2})		0.21		
Remark	* Bangkhen			

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