2．詳細暫定実施計画

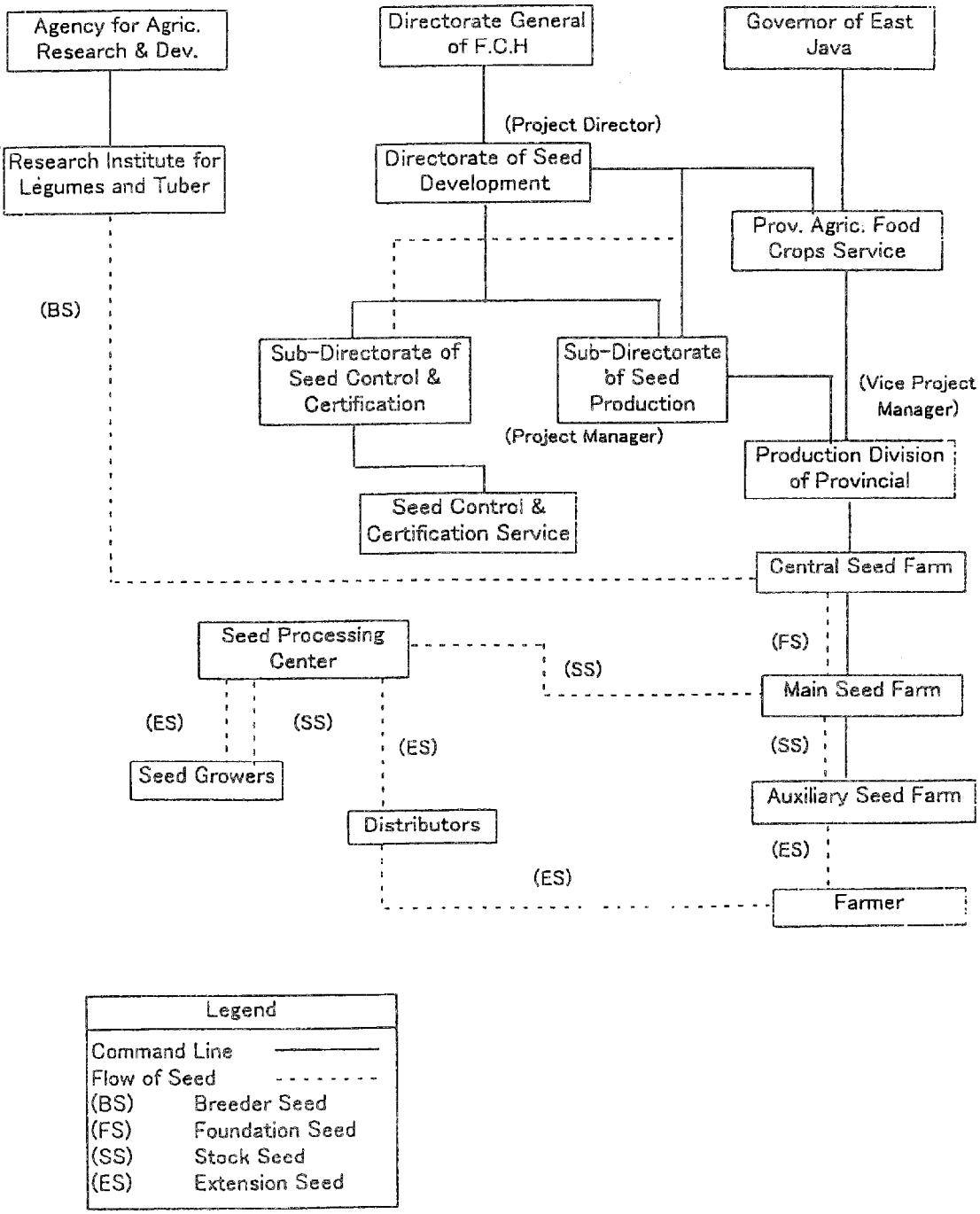
Item \ F.Y.	1996	1997	1998	1999	2000	2001
1) Soybean Seed Production						
a) Improvement of the technology for seed production and management						
(1) Maintenance of FS						
(a) Improvement of the technology on FS purification						
(b) Purification and maintenance of FS for selected variety(ies)						
(2) Improvement of the technology on FS, SS and ES production and management						
(a) FS production at BBI						
(b) SS production at model BBU						
(c) ES production and processing at model SPC						
(d) Establishment of technology for elongating seed viability						
(3) Demonstration of characteristics of prevailing and promising varieties						
(4) Strengthening the relationship between BBI, model BBU and model SPC.						
(a) Making operation program of soybean seed production throughout BBI, model BBU and model SPC						
(b) Management of implementation of the program						
b) Improvement of the manual on seed production and management						
(1) Collection and reviewing of the present manuals						
(2) Improvement of the manual on seed production and management						

Item \ F.Y.	1996	1997	1998	1999	2000	2001
2) Soybean Seed Inspection						
a) Improvement of the technology for seed inspection						
(1) Improvement of the technology for field inspection						
(a) Field registration						
(b) Field inspection						
(c) Disease identification						
(d) Data management						
(2) Improvement of the technology for laboratory inspection						
(a) Seed registration						
(b) Laboratory test						
(c) Disease identification						
(d) Data management						
(3) Strengthening inspection and guidance system of BPSB						
(a) Strengthening relationship between DINAS, BPSB and model SPC						
(b) Popularizing soybean seed inspection and certification program to soybean seed growers						
b) Improvement of the manual on seed inspection						
(1) Improvement of the manual on field inspection						
(a) Standard for field inspection						
(b)Manual on field inspection						
(2) Improvement of the manual on laboratory inspection						
(a) Standard for laboratory inspection						
(b) Manual on laboratory inspection						

Item \ F.Y.	1996	1997	1998	1999	2000	2001
3) Training						
a) Preparation of the training plan, curriculum and materials						
(1) Improvement of the training system						
(a) Improvement of the planning methods of training						
(b) Preparation of training plan and curriculum						
(2) Preparation of the training manual and materials						
(a) Training manual						
(b) Training materials						
(c) Training field						
b) Implementation of the training for technical staff concerning seed production and inspection in DSD, BBI, BBU, BPSB, SPC and key seed growers						
(1) Training for the staff of DSD, BBI, BBU, BPSB and SPC						
(a) Seed management						
(b) Production techniques						
(c) Inspection techniques						
(2) Training of production techniques for key seed growers						

3．プロジェクト組織図

Figure1. Project Implementation Chart
(Tentative)

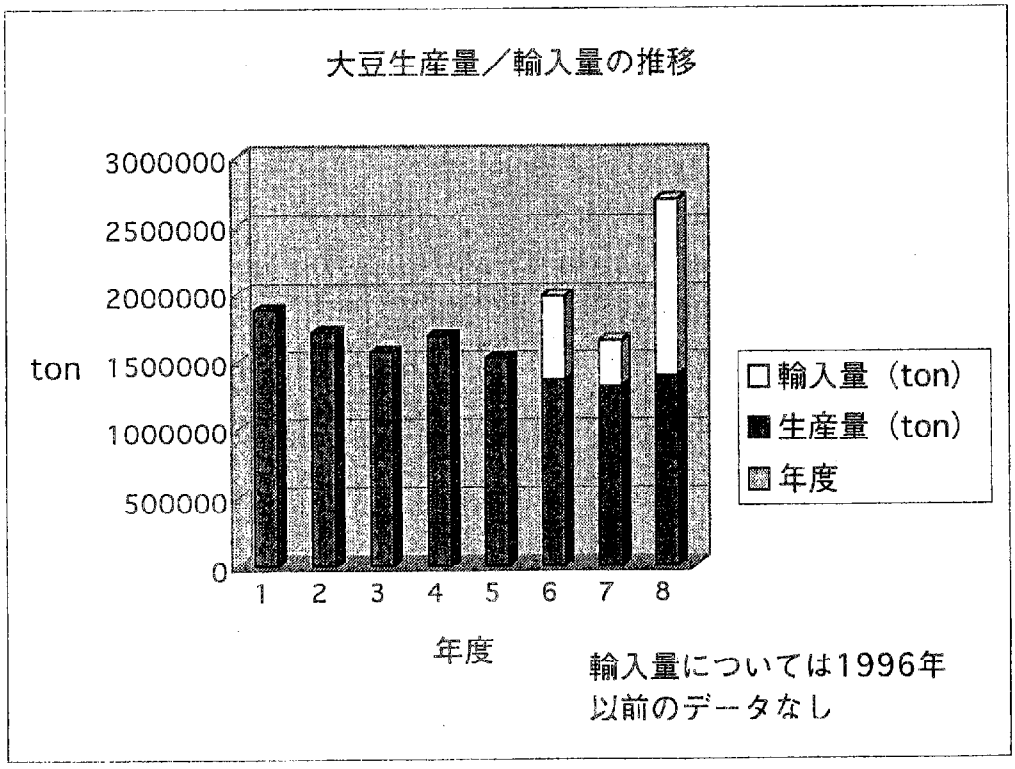


Legend	
Command Line	———
Flow of Seed	- - - - - - - -
(BS)	Breeder Seed
(FS)	Foundation Seed
(SS)	Stock Seed
(ES)	Extension Seed

4．大豆生産／輸入状況

インドネシア大豆生産（1992-1999）／輸入（1997-1999）

年度	生産量（ton）	輸入量（ton）	作付面積（ha）
1992	1,869,713		1,551,393
1993	1,708,528		1,560,739
1994	1,564,847		1,470,463
1995	1,680,007		1,442,563
1996	1,517,181		1,228,066
1997	1,356,891	616,000	1,162,411
1998	1,305,640	343,000	1,150,476
1999	1,382,848	1,302,000	1,140,231



5．大豆生産計画

インドネシアのダイズ増産振興計画
（２００１年～2004 年）

農業省食用作物総局は 2001 年から 2004 年までの主要食用作物生産計画（出典及び Table 1 参照）を策定し、発表した。本稿はそのうちのダイズについて抜粋し、英語に仮訳したものである。

Unofficial Translation
January 18, 2001

Source（出典）：

RANCANGAN PROGRAM PEMBANGUNAN SUB SEKTOR PRODUKSI TANAMAN PANGAN TAHUN 2001-2004
DEPARTEMEN PERTANIAN, DIREKTORAT JENDERAL PRODUKSI TANAMAN PANGAN, JAKARTA, JANUARI 2001
(PLAN OF DEVELOPMENT PROGRAM OF FOOD PRODUCTION SUB-SECTOOR, YEAR 2001-2004, MINISTRY OF AGRICULTURE, DIRECTORATE JENERAL OF FOOD CROPS PRODUCTION, JAKARTA, JANUARY 2001)

Table 1: The Need of Main Foodstuff FY 2001-2004 (Page 6)

No.	Foodstuff	Third Prediction In Year 2000 (000 tons)	Requirement (000 tons)				
			2001	2002	2003	2004	Average Increasing rate (%)
1	Paddy	50,696	52,000	53,000	54,000	55,000	2.06
2	Maize	9,156	11,000	11,500	12,000	12,750	8.82
3	Soybean	1,046	1,600	1,800	2,000	2,250	22.27
4	Peanut	710	736	790	860	90	7.58
5	Mung bean	269	304	315	330	345	6.48
6	Cassava	15,317	16,436	17,000	17,850	19,000	5.54
3	Sweet Potato	1,631	1,846	1,900	2,000	2,100	6.59

Table 2 : The Estimate Areas of Planting, Harvesting and Average Yield to meet the demand of Foodstuff in Year 2001 (Page 7)

No.	Foodstuff	Planting Area (ha)	Harvesting Area (ha)	Average Yield (Ku/ha)
1	Paddy	12,578,950	11,950,000	43.51
2	Maize	4,250,525	4,038,000	27.24
3	Soybean	1,374,220	1,305,5007	12.26
4	Peanut	697,920	663,021	11.10
5	Mung Bean	328,500	312,078	9.74
6	Cassava	1,391,715	1,322,128	127.92
7	Sweet Potato	202,165	192,054	96.13

Remark : Ku = kwintal as same as 100 kg

Table 3 : The Estimate of Land Requirement for Planting in Year 2001 (Page 14)

No.	Commodity	Planting Area (ha) Year 2000 *)	Target Planting Area (ha) Year 2001 **)	Difference (ha) (3) – (2)
	(1)	(2)	(3)	(4)
1	Paddy	12,099,221	12,371,594	272,373
2	Maize	3,606,442	4,097,452	491,10
3	Soybean	1,015,352	1,287,034	271,682
4	Cassava	1,365,326	2,380,347	15,021
5	Peanut	643,989	687,118	43,129
6	Mung Bean	306,627	339,624	32,997
7	Sweet Potato	165,739	193,588	27,849

Table 4 : Figure of Requirement of Agricultural Tools and Machineries to support the increasing Rice Production in Year 2001 (Page 18)

No.	Kind of Goods	Number in Year 1997	Requirement in Year 2001 ***)
1	Hand Tractor (Unit) *)	74,893	200,000
2	Serrated Sickle (Unit) *)	6,578,703	6,000,000
3	Power Thresher (Unit) *)	34,717	192,000
4	Water Pump (Unit) **)	95,501	107,451
5	Dryer (UNIT) **)	391	508
6	Rice Milling (Unit) *)	64,308	72,222

*) Data of Central Bureau of Statistics 1997

**) Data of Report from Province Dinas Pertanian (州農業局)

***) Counted by target of paddy planting area 12.371 million ha

Paddy planting area	11,876 million ha
Hand Tractor Capacity	30/Unit/Planting Season
Serrated Sickle Capacity	2ha/Unit/Year
Power Thresher Capacity	60ha/Unit/Year
Water Pump Capacity	50 ha, increasing target of Crops Pattern 5% of total planting area in Year 2001
Dryer Capacity	
Rice Milling Capacity	20 days works/moth with 3 ton/day

Table 5: The Estimate of Fertilizer Requirement for Planting of Paddy, Maize and Soybean in Year 2001 (Page 20)

No.	Commodity	Planting Area (ha)	Fertilizer Requirement (ton)			
			Urea	SP-36	ZA	KCL
3	Soybean	1,287,034	64,352	128,703	0	64,352

Table 6 : The Estimate of Pesticide Requirement for Soybean Planting in Year 2001*)
(Page 21)

No.	Commodity	Kind of Crops Pest (ha)	Number of Pesticide (kg)
2	Soybean	• Leaf Fly • Polong Fly • Bean Caterpillar Total	15,760 5,550 5,550 26,680

Table 7 : Target of Additional Food Crops Production in Year 2001 for anticipated El-Nino in Year 2002
(Page 27)

No	Commodity	Target of Additional Production (Ton)	Production Target in Year 2001 (Normal Condition) (Ton)	Total Production Target in Year 2001 incl. El-Nino 2002 Ton)
3	Soybean	200,000	1,600,000	1,800,000

Note: Mentioned in Page 27-28

The Production of Rice and Maize are increase per year that is 0.14% for Rice and 2.2% for Maize. Whereas the production of Soybean is decrease 5.2% per year

3. Increasing of Soybean Production (Page 35-36)

Main Efforts (Upaya Pokok)

Expansion of Planting Area

- Increasing of Cropping Index (IP), IP 100-200 and IP 200-300
- Utilization of Potential Area (dryland / transmigration/Indonesian Farmers Association/Public Estate Smallholder)

- Development of None Tillage Technology (TOT) at appropriate area
- Acceleration of land preparation and planting (using of agricultural tools and machineries, water supply management)

Increasing of Productivity

- Utilizing high quality seed
- Developing of technology innovation (rhizobium, multifunctional microbe fertilizer)
- Developing of irrigation technology (System "leb" or water pump)
- Development of improvement for acid soil
- Increasing of organic fertilizer use
- Developing of technology application at specific areas
- Increasing of yield security against OPT (Crops hazardous Organism) and drought
- Development of technology, harvesting and post harvest tools to increase of quality and decreasing of harvest losses (multifunctional power thresher, dryer)

Supporting Efforts

- Campaign to anticipate El-Nino 2002 by Minister, Governor, Head of District (Bupati) , Head of Sub District (Camat), Head of Village (Kepala Desa)
- Acceleration of land preparation and planting
- Increasing of coordination with Ministries and Institutions concerned (Depkimpraswil, Deperindag, Depkop, Depdagri, BULOG/DOLOG), Koperasi Tahu Tempe/KOPTI, food processing industry company, and other private sector.
- Stabilization of production plan and area development.

Annex 16 : Main Production Areas of Soybean in Kabupatens

(Page 57)

No	Provinces	Kabupaten/District Main Production Area (Harvesting Area in Java >2,500 ha, Outside Java > 1,000 ha	Number of Kabupatens
1	DI Aceh	Pidie, Aceh Utara, Aceh Timur, Aceh Besar, Aceh Barat	5
2	N. Sumatera	Simalungun, Deli Serdang, Tapsel, Labuan Batu, Asahan, Langkat	6
3	W. Sumatera	Pasaman	1
4	Riau	Kampar	1
5	Jambi	Bungo Tebo, Sarko	2
6	S. Sumatera	MUBA, OKI, OKU, Lahat, Musi Rawas	5
7	Bengkulu	Rejang Lebong, Benguku Selatan	2
8	Lampung	Lampung Selatan, Lampung Tengah, Lampung Utara	3
9	W. Java	Cirebon, Karawang, Pandeglang, Sukabumi, Bandung, Tasik Malaya, Ciamis, Cirebon	8
10	C. Java	Sragen, Grobogan, Blora, Rembang, Pati, Demak, Brebes, Cilacap, Banyumas, Kebumen, Purworejo, Boyolali, Klaten, Wonogiri, Tegal	15
11	DI Yogyakarta	Kulon Progo, Bantul, Gunung Kidul, Sleman	4
12	E. Java	Ponorogo, Banyuwangi, Jember, Pasuruan, Jombang, Bojonegoro, Lamongan, Blitar, Madiun, Tuban, Lamongan, Gresik, Probolinggo, Mojokerto, Bangkalan, Sampang, Sumenep	17
13	Bali	Jembrana, Badung, Gianyar, Tabanan, Klungkung, Buleleng	6
14	W. Nusa Tenggara	Lombok Barat, Lotim, Sumbawa, Dompu, Bina	6
15	E. Nusa Tenggara	Ngada, Manggarai	2
16	W. Kalimantan	Sintang 1)	1
17	C. Kalimantan	Kota Waringin Timur 1)	1
18	S. Kalimantan	Kota Baru 1)	1
19	E. Kalimantan	Bulungan 1)	1
20	N. Sulawesi	Gorontalo, Bolaang Mongondow	2
21	C. Sulawesi	Banggai, Donggala	2
22	S. Sulawesi	Mamuju, Wajo, Jene Ponto, Maros, Luwu, Pinrang, Bone, Soppeng, Bantaeng	9
23	SE Sulawesi	Kendari	1
24	Maluku	North Maluku 1)	1
25	Irian Jaya	Sorong 1)	1
	TOTAL		**109**

1) **Harvesting Area <1,000 ha**