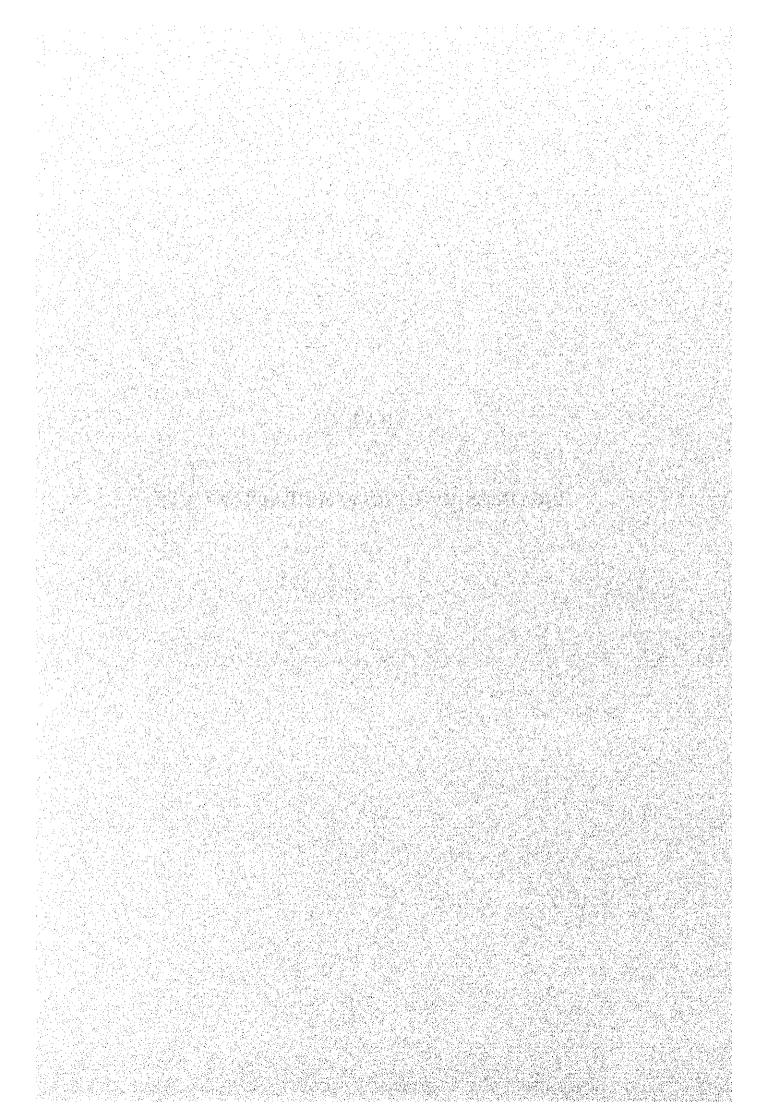
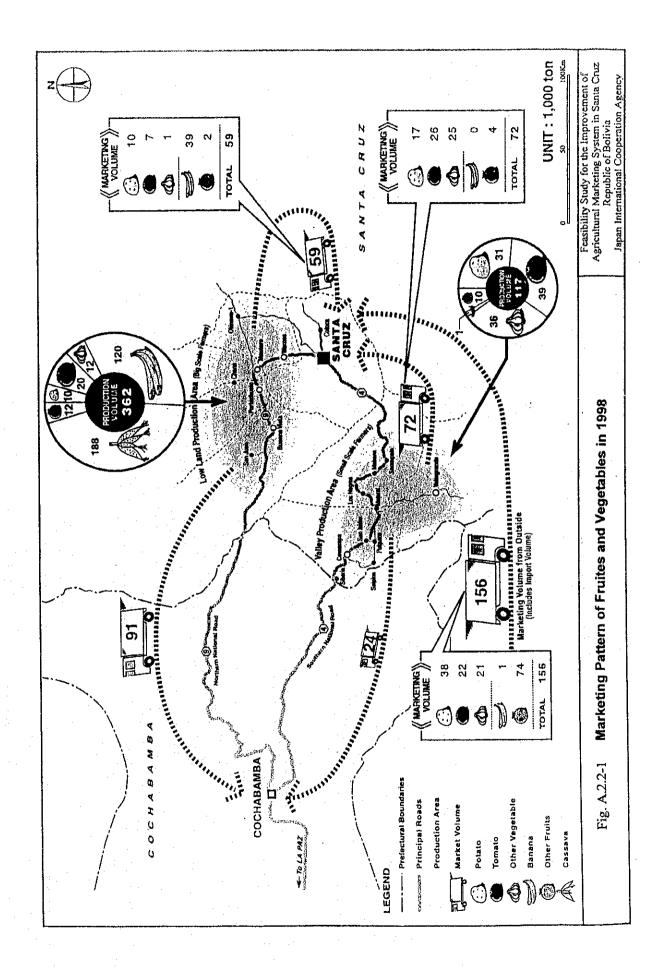
Feasibility Study for the Improvement of Agricultural Marketing System in Santa Cruz

ANNEX 2

FIGURES, TABLES & ATTACHMENTS





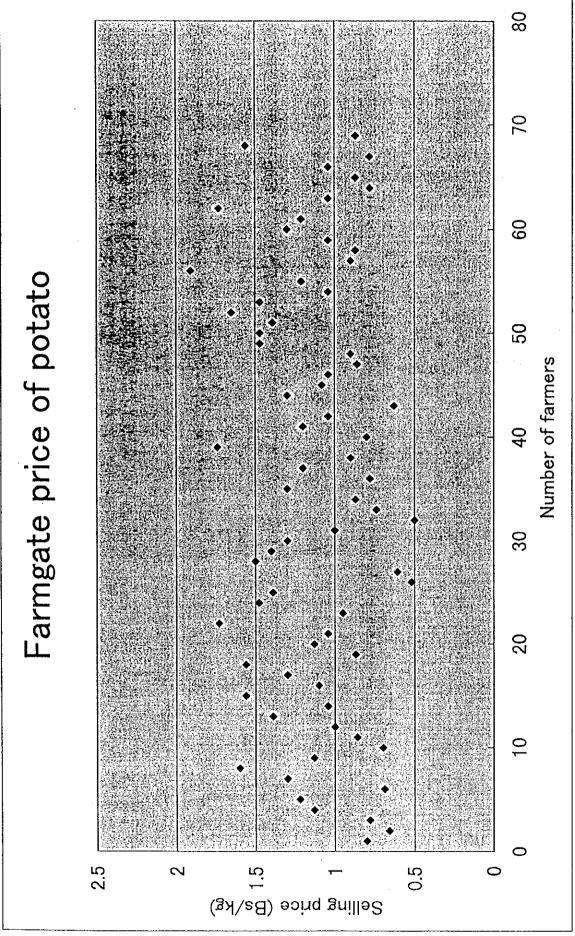


Fig. A.2.2-2 Farmgate price of potato

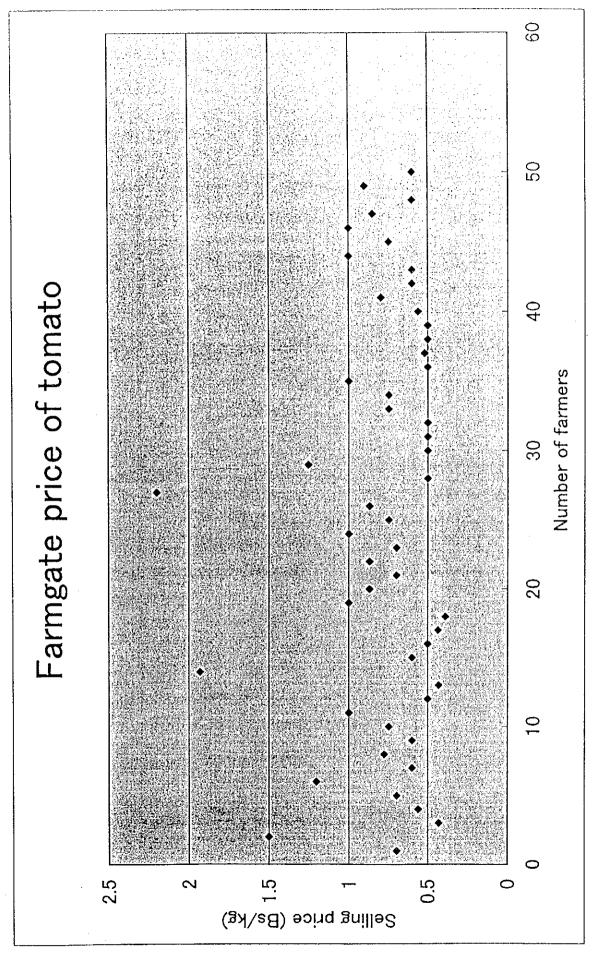


Fig. A.2.2-3 Farmgate price of tomato

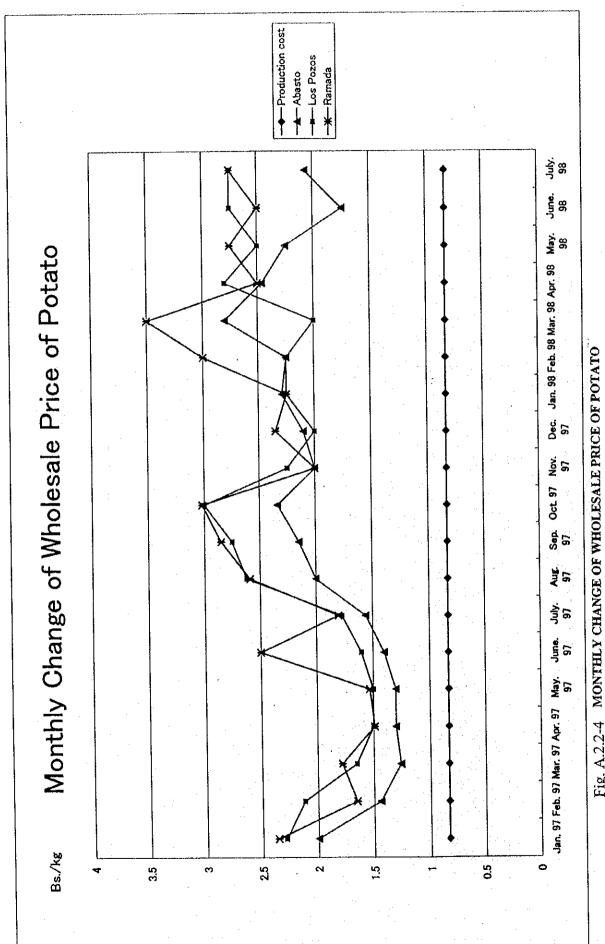
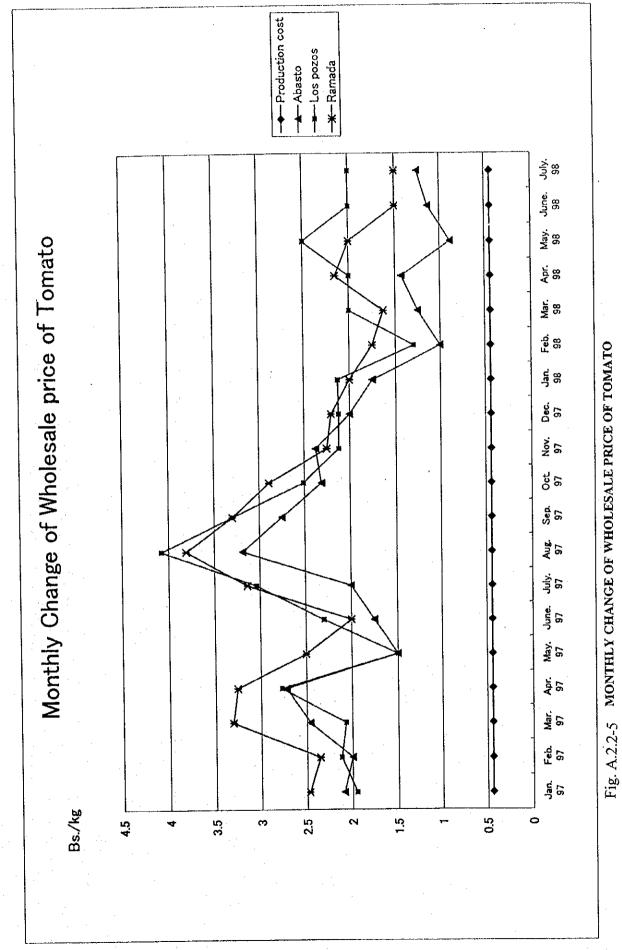


Fig. A.2.2-4



A.2.F-5

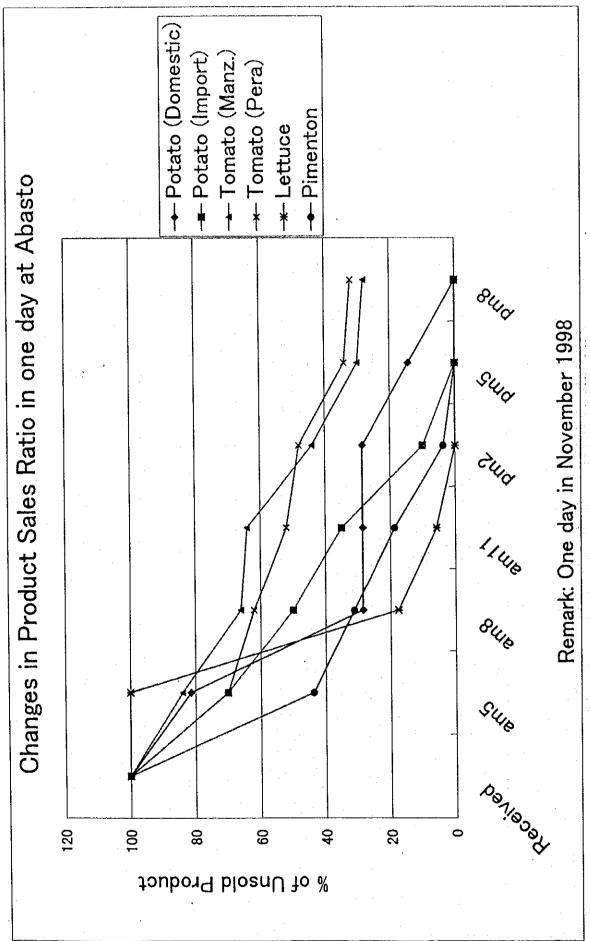


Fig. A.2.2-6 CHANGES IN PRODUCT SALES RATIO IN ONE DAY AT ABASTO

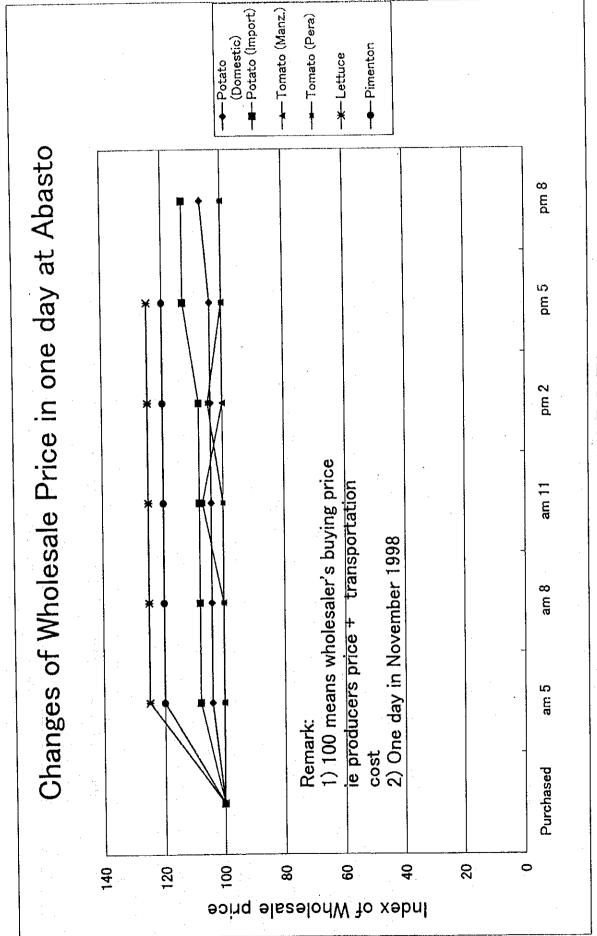


Fig. A.2.2-7 CHANGES IN WHOLESALE PRICE IN ONE DAY AT ABASTO

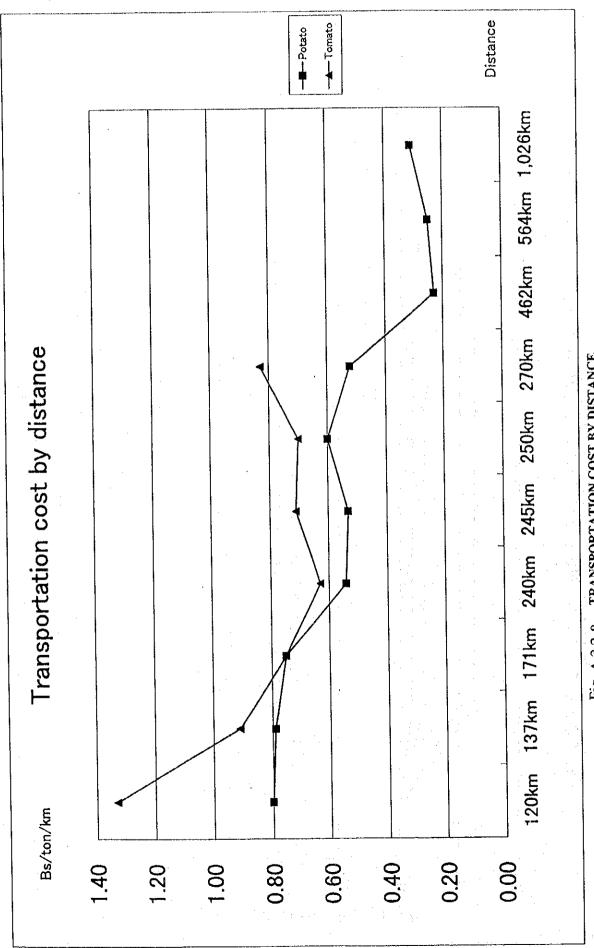
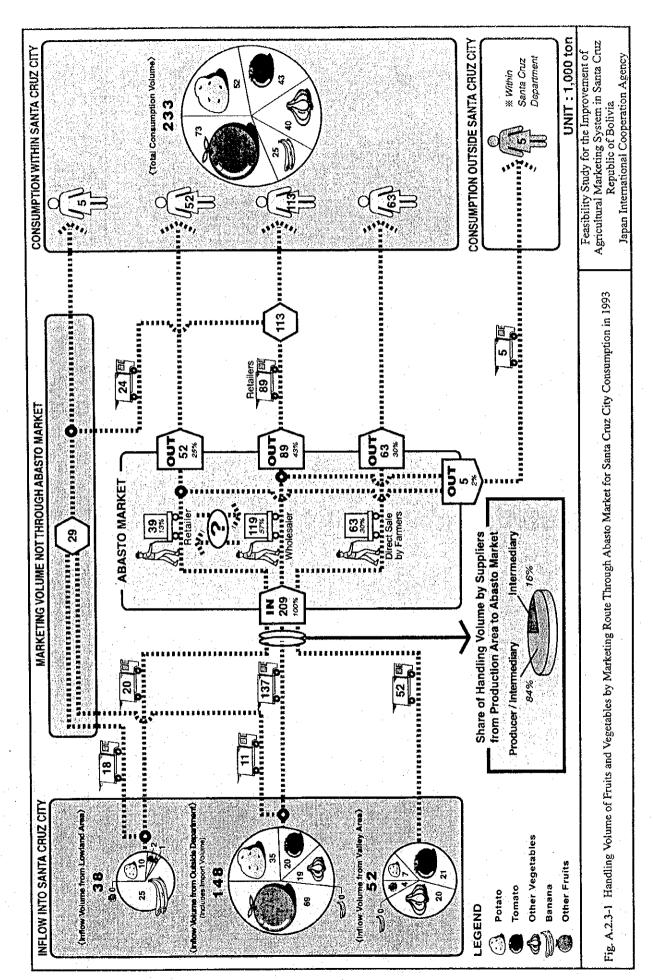
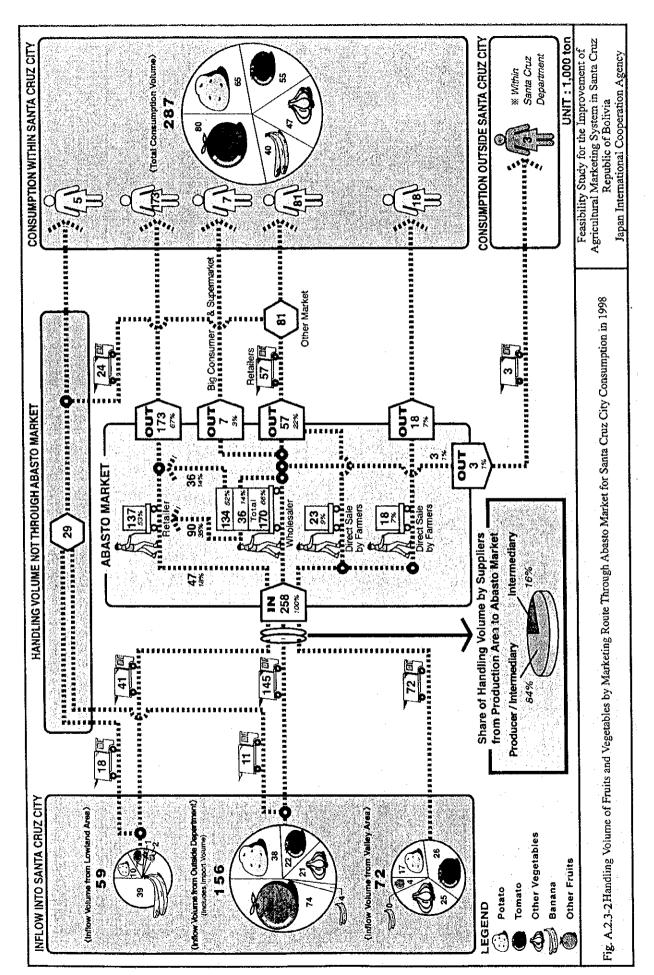
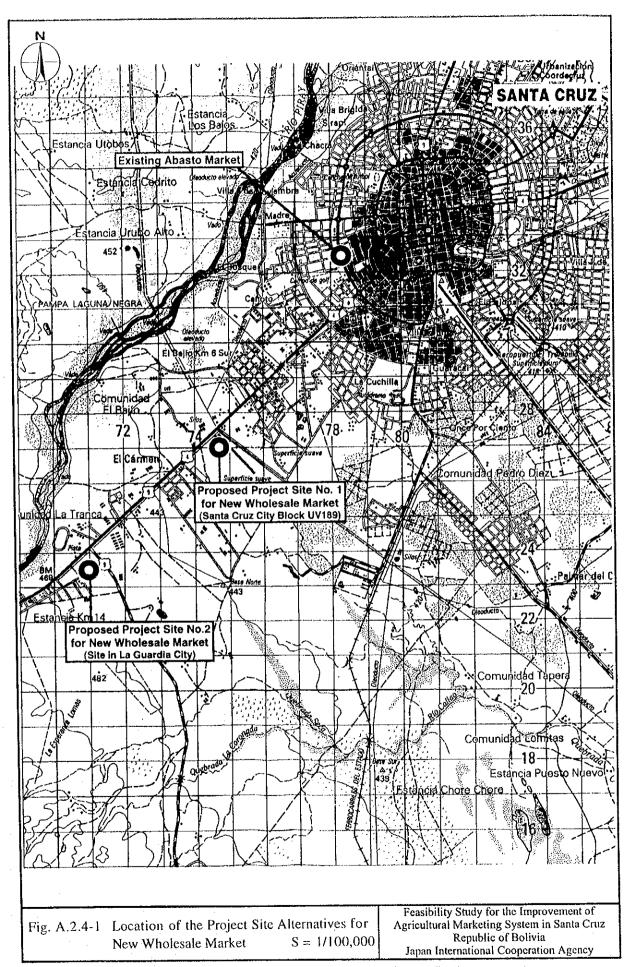


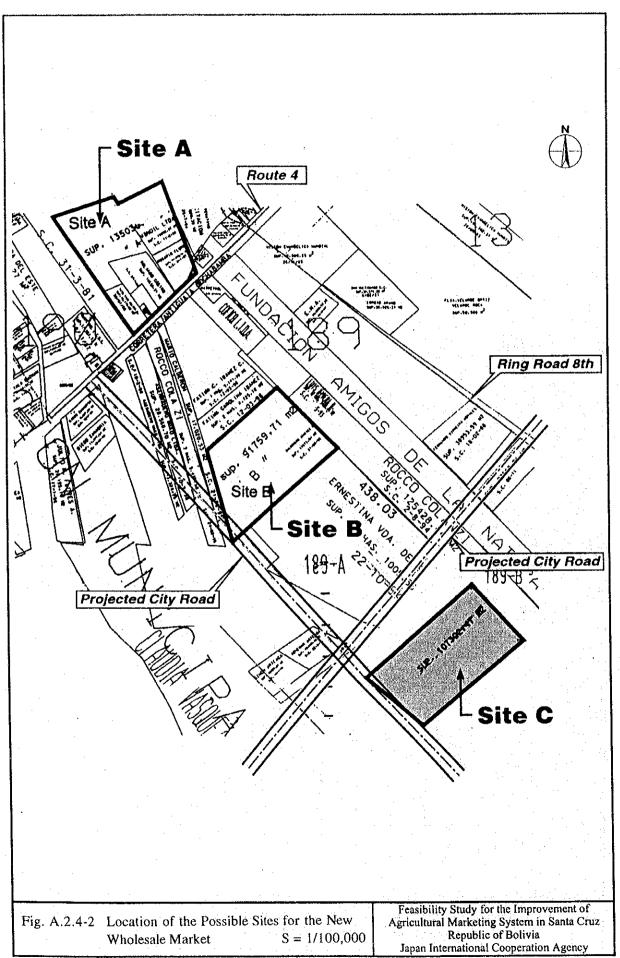
Fig. A.2.2-8 TRANSPORTATION COST BY DISTANCE

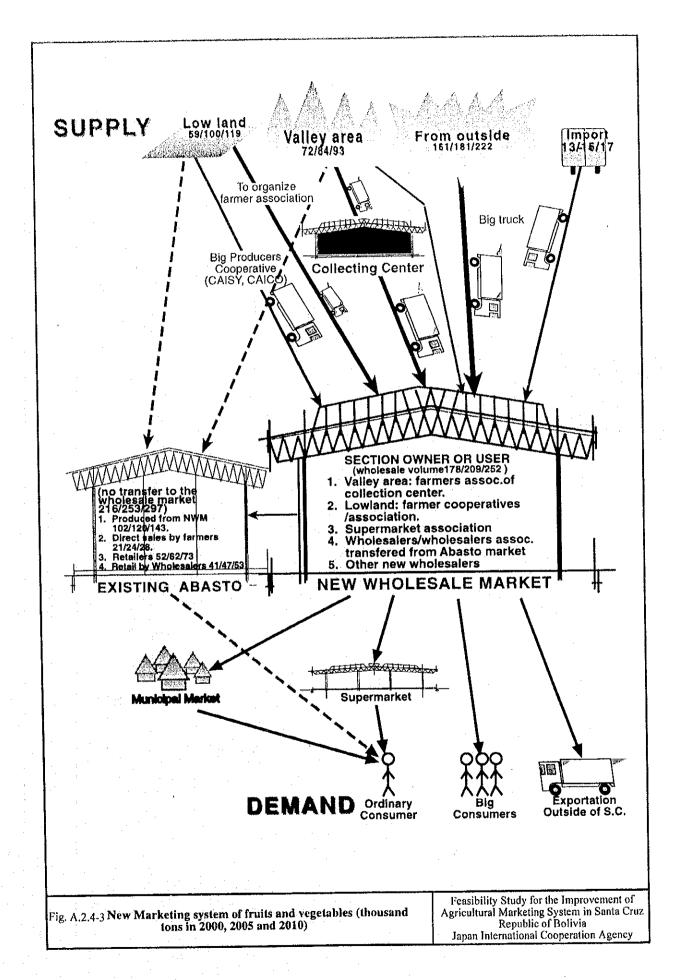


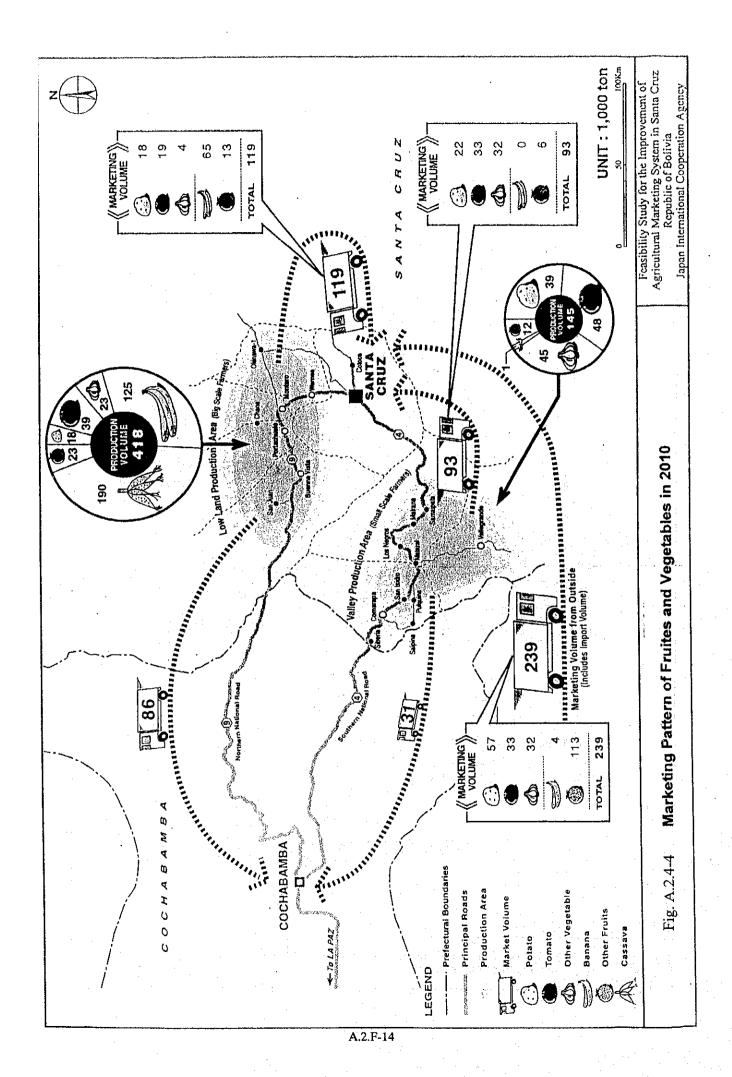


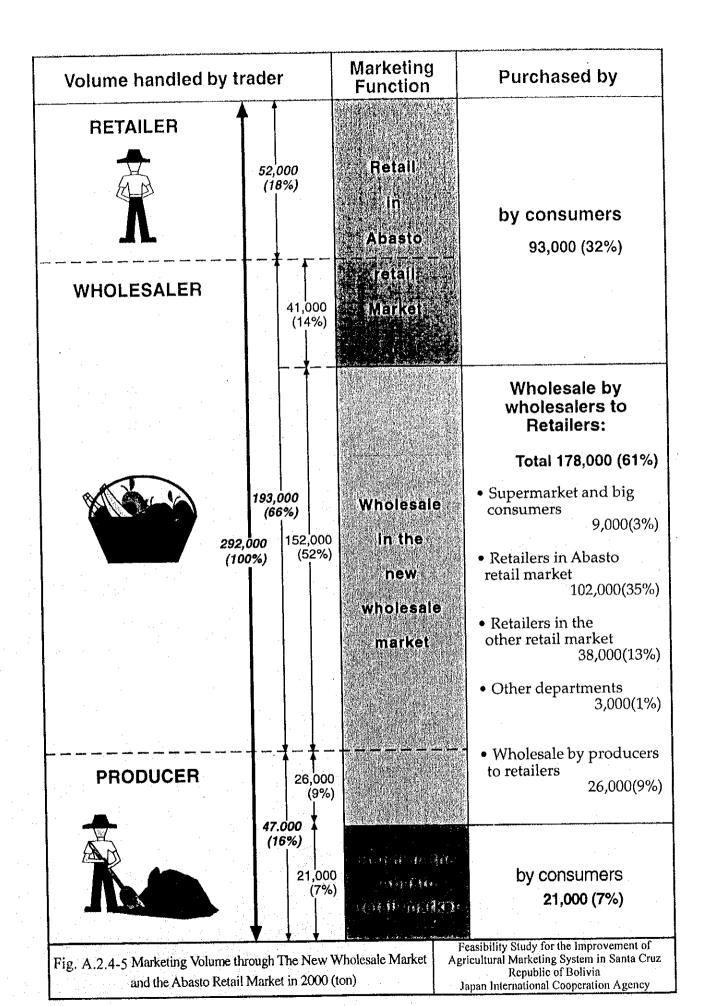
A.2.F-10

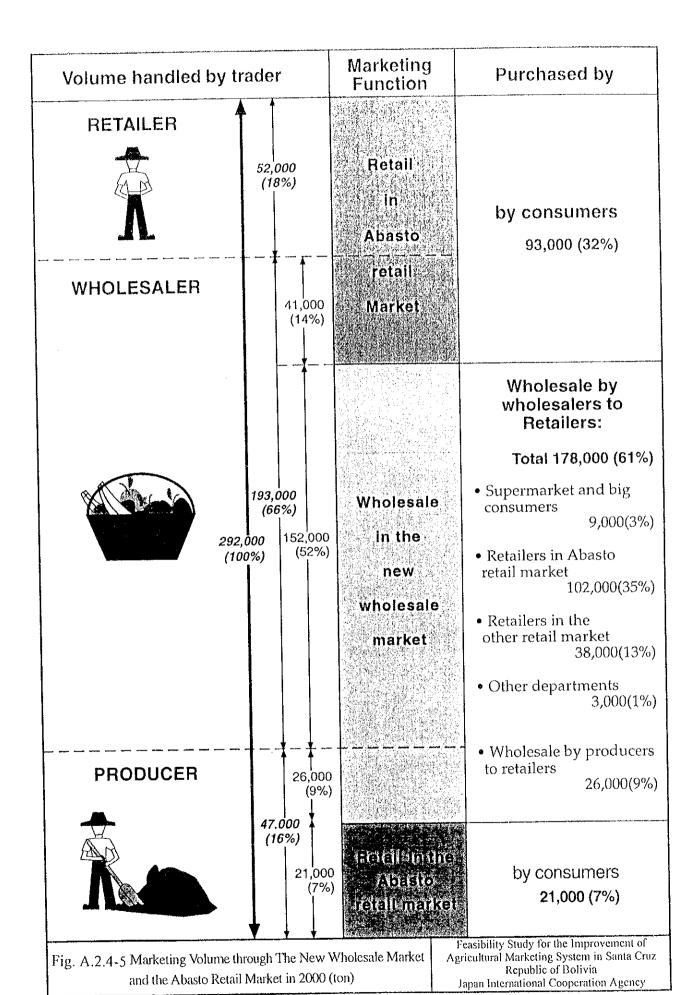






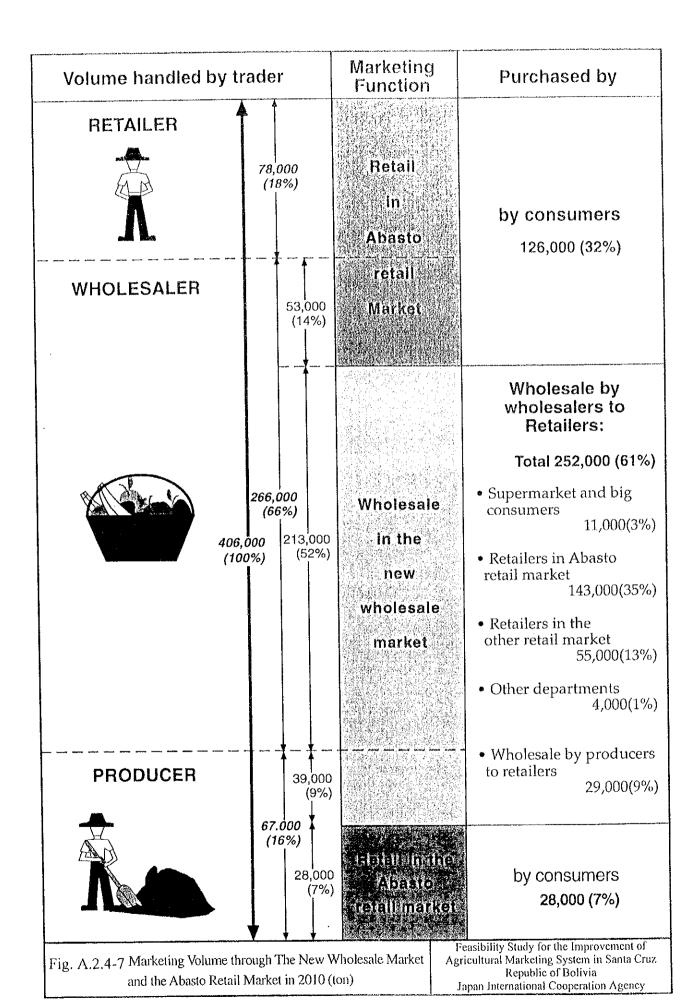




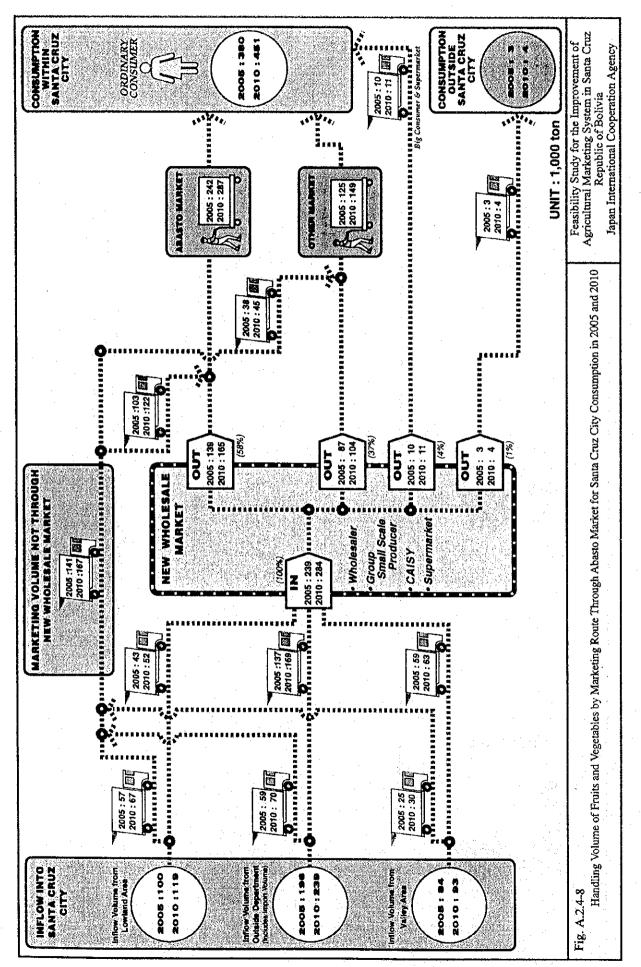


A.2.F-15

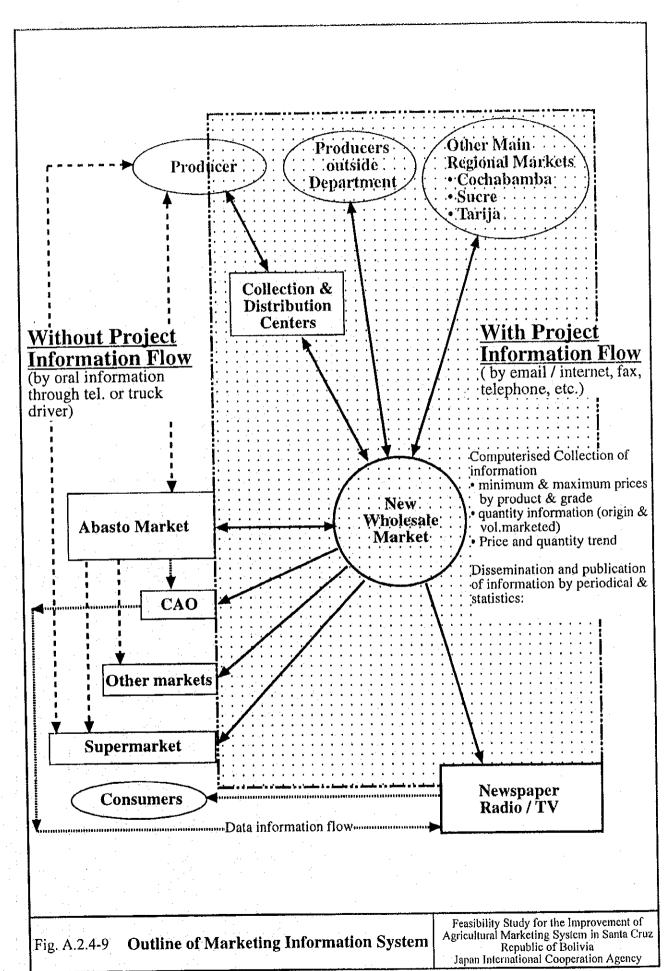
Volume handled by	trader	Marketing Function	Purchased by
RETAILER	62,000 (18%)	Retail in Abasto	by consumers 109,000 (32%)
WHOLESALER	47,000 (14%)	retail Market	
			Wholesale by wholesalers to Retailers:
-			Total 178,000 (61%)
	225,000 (66%) 2,000 00%) 178,000 (52%)		• Supermarket and big consumers 10,000(3%) • Retailers in Abasto retail market 120,000(35%) • Retailers in the other retail market 45,000(13%) • Other departments 3,000(1%)
PRODUCER	31,000		• Wholesale by producers to retailers 31,000(9%)
	55.000 (16%) 24,000 (7%	retall market	by consumers 24,000 (7%)
Fig. A.2.4-6 Marketing Volume t and the Abasto Reta	-	Wholesale Market Ag	easibility Study for the Improvement of ricultural Marketing System in Santa Cruz Republic of Bolivia Japan International Cooperation Agency

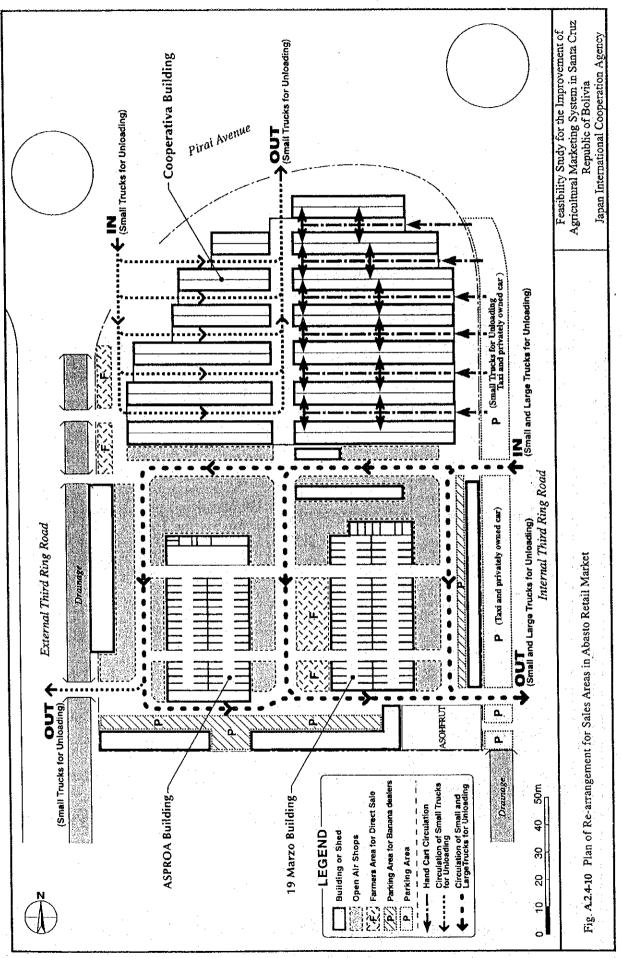


A.2.F-17

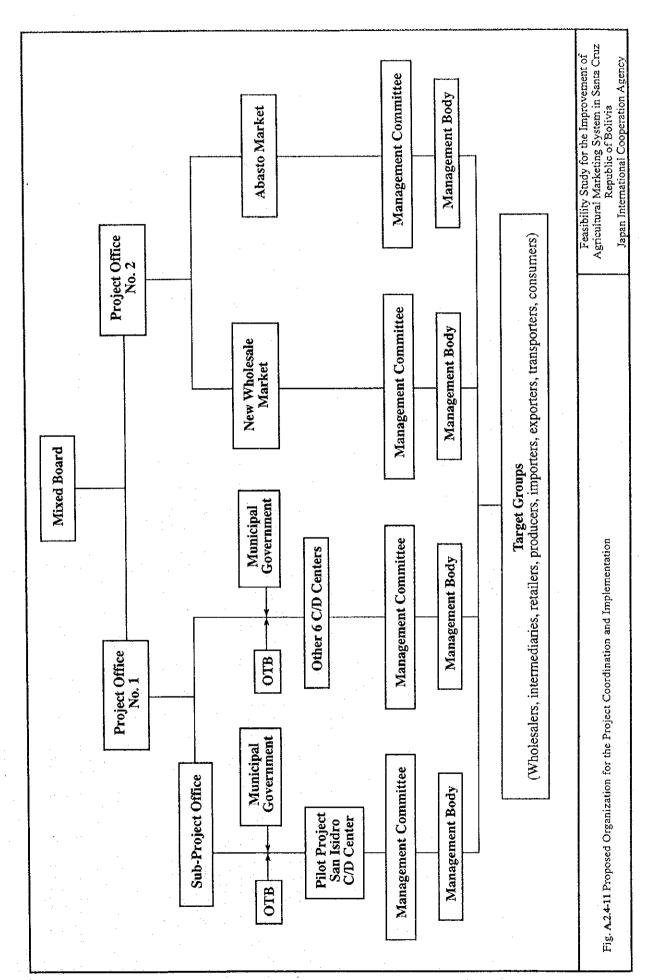


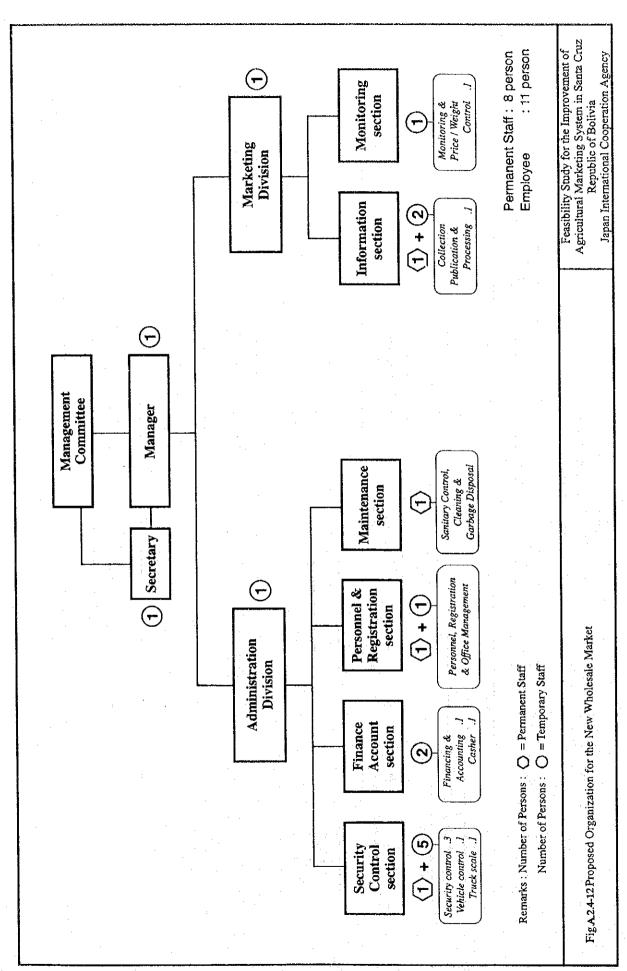
A.2.F-18

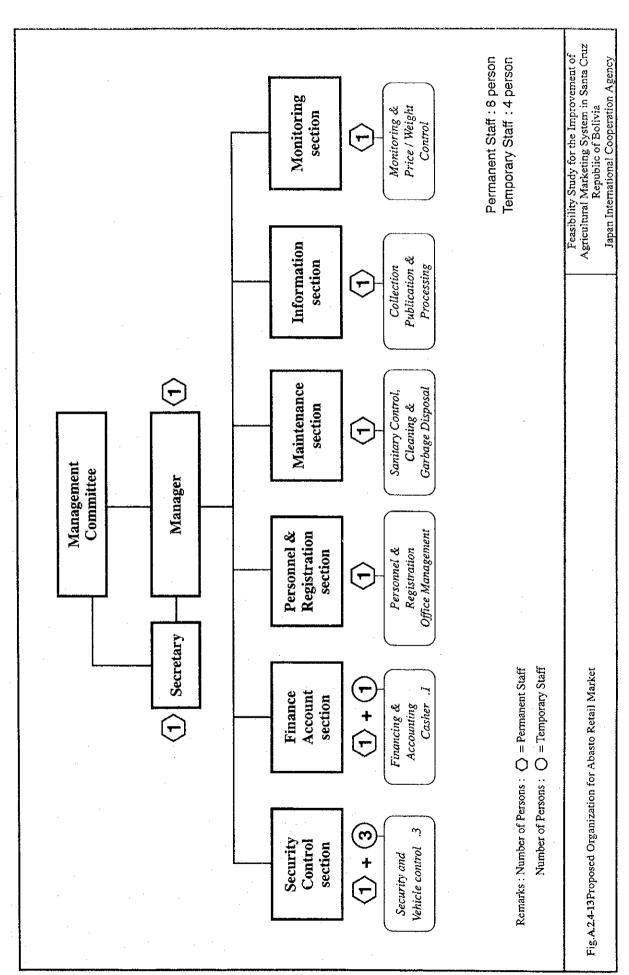


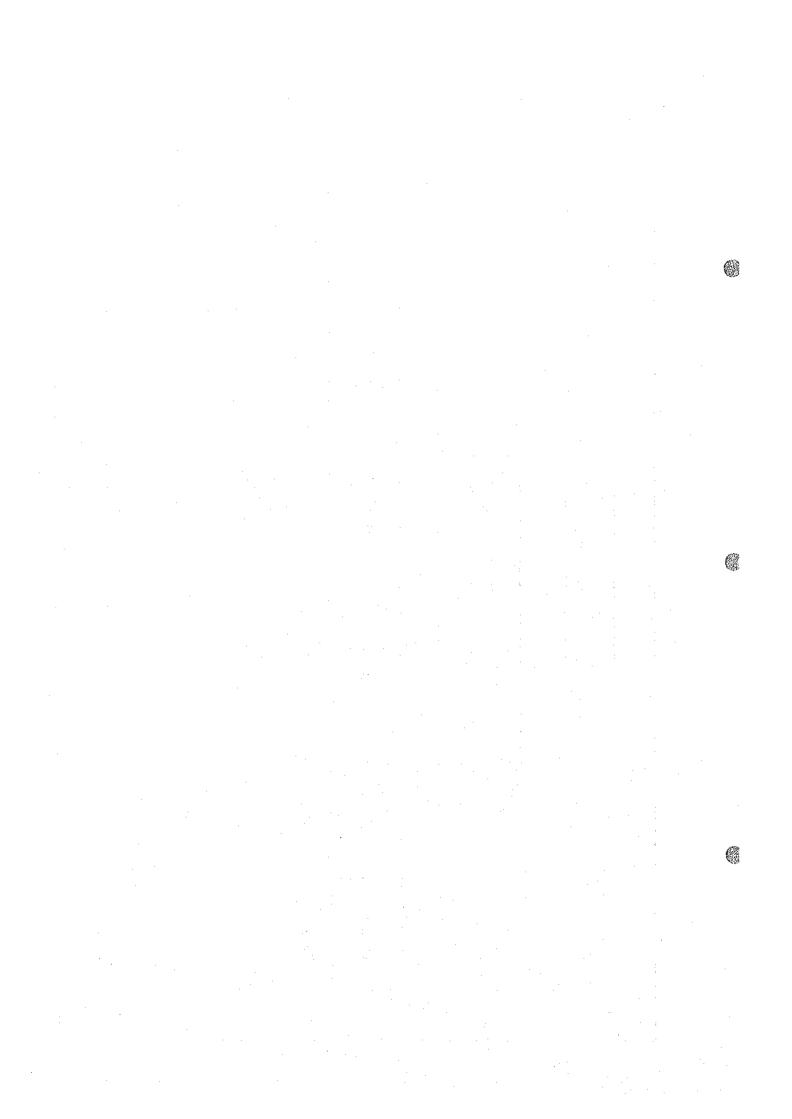


A.2.F-20









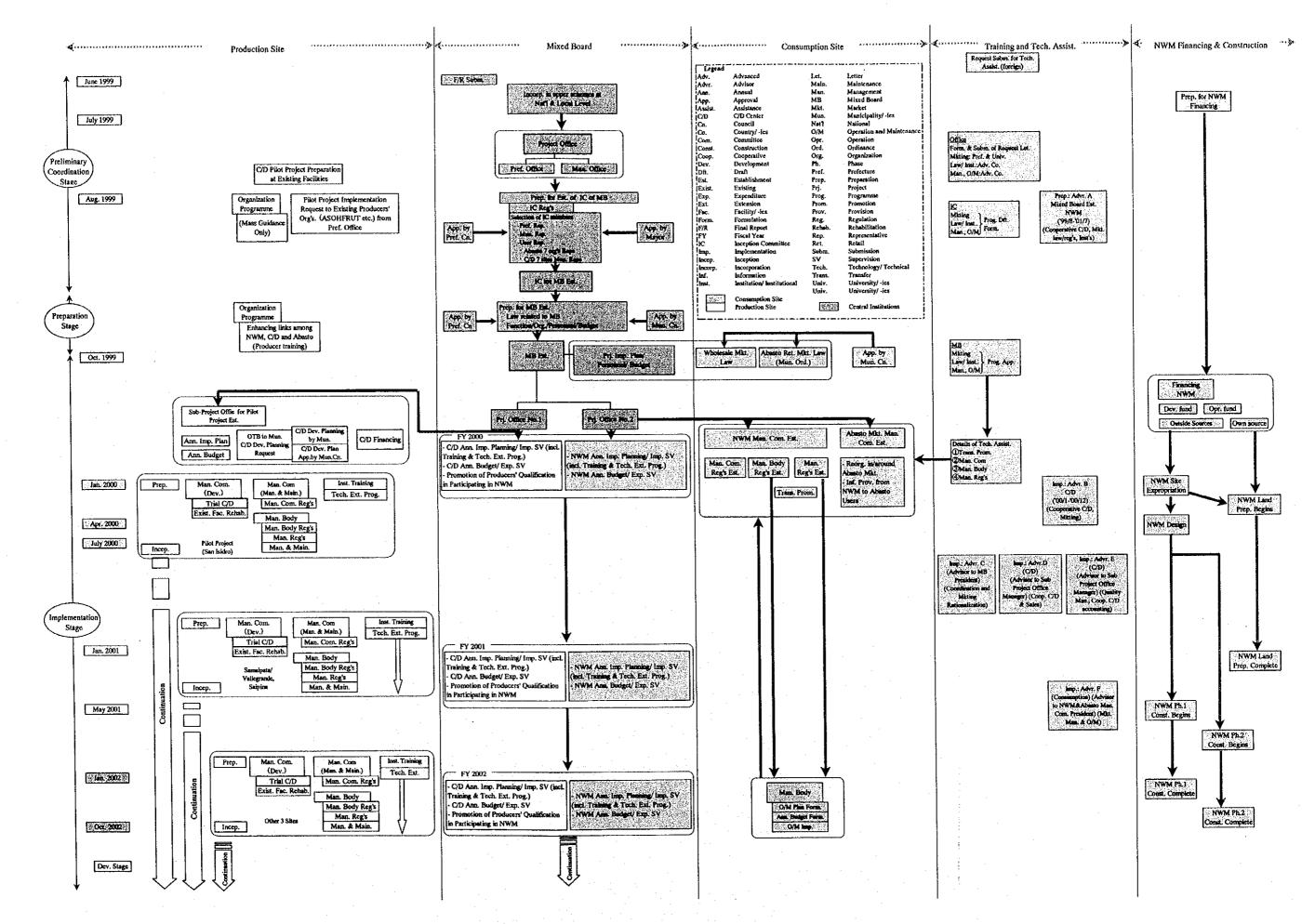


Fig. A.2.6-1 Project Implementation Process

Fig. A.2.6-1 Project Implementation Process

Table A.2.2-1 POPULATION BY PROVINCE IN SANTA CRUZ DEPT.

	1995	1996	1997
1. Andre Ibanez	927,197	967,590	1,009,379
1) Santa Cruz City	838,464	874,991	912,781
		(+4.32%)	(+4.32%)
2) Others	88,733	92,599	96,598
2. Valley area	66,416	65,924	65,414
1) Vallegrande	27,098	26,899	26,692
2) Florida	22,769	22,512	22,250
3) Caballero	16,549	16,513	16,472
3. Others	558,941	568,002	577,158
Santa Cruz Dept.	1,552,554	1,601,516	1,651,951
•	•	(+3.15%)	(+3.15%)

Source: Anuario Estadistico 1997, Instituto Nacional de Estadistica (INE)

Table A.2.2-2 SUPPLY AND DEMAND OF FRUIT AND VEGETABLE IN SANTA CRUZ DEPT. (1994)

							Unit: 1,000 tons
	Supply			Demand			
	Production	Inflow	Total	Consumption	Outflow	Total	S/D Balance
Valley	94	0	94	22	20	42	+52
Low land	292	6	298	183	. 77	260	+38
SC City	.0	143	143	233	0	233	-90
Total	386	149	535	438	97	535	0

Table A.2.2-3 SUPPLY AND DEMAND OF ROOT CROP IN SANTA CRUZ DEPT. (1994)

							Unit: 1,000 tons	
	Supply		Demand			*		
	Production	Inflow	Total	Consumption	Outflow	Total	S/D Balance	
Valley	25	0	25	14	4	18	+7	
Low land	162	3	165	87	68	155	+10	
SC City	0	35	35	52	. 0	52	-17	
Total	187	38	225	153	72	225	0	

Source: JICA Study Team, 1994

Table A.2.2-4 SUPPLY AND DEMAND OF VEGETABLE IN SANTA CRUZ DEPT. (1994)

			<u> </u>	<u> </u>		Unit: 1,000 tons
Supply			Demand			
Production	Inflow	Total	Consumption	Outflow	Total	S/D Balance
61	0	61	5	- 15	20	+41
23	2	25	22	0	22	+3
0	39	39	83	0	83	-44
84	41	125	110	15	125	0
	Production 61 23 0	Production Inflow 61 0 23 2 0 39	Production Inflow Total 61 0 61 23 2 25 0 39 39	Production Inflow Total Consumption 61 0 61 5 23 2 25 22 0 39 39 83	Production Inflow Total Consumption Outflow 61 0 61 5 15 23 2 25 22 0 0 39 39 83 0	Supply Demand Production Inflow Total Consumption Outflow Total 61 0 61 5 15 20 23 2 25 22 0 22 0 39 39 83 0 83

Source: JICA Study Team, 1994

Table A.2.2-5 SUPPLY AND DEMAND OF FRUIT IN SANTA CRUZ DEPT. (1994)

·								Unit: 1,000 tons
	Supply	,			Demand			
	Produc	tion	Inflow	Total	Consumption	Outflow	Total	S/D Balance
Valley		8	0	8	3	1	4	+4
Low land		107	1	108	74	9	83	+25
SC City		. 0	69	69	98	0	98	-29
Total		115	70	185	175	10	185	0

Table A.2.2-6 SUPPLY AND DEMAND OF FRUIT AND VEGETABLE IN SANTA CRUZ DEPT. (1998)

Unit: 1,000 tons

	Supply			Demand				
	Production	Inflow	Total	Consumption	Outflow	Total	S/D Balance	
Valley	117	0	117	21	22	43	+74	
Low land	362	. 0	.362	212	93	305	+57	
Import	•	13	13			-	+13	
SC City	. 0	143	143	287	0	287	-144	
Total	479	156	635	520	125	635	0	

Table A.2.2-7 SUPPLY AND DEMAND OF ROOT CROP IN SANTA CRUZ DEPT. (1998)

Unit: 1,000 tons Demand Supply Production Inflow Total Consumption Outflow Total S/D Balance Valley 54 0 54 13 8 21 +33 192 0 192 101 76 177 Low land +15 12 12 +12 Import 0 17 64 -47 SC City 17 0 64 29 275 116 84 267 Total 250 +13

Source: JICA Study Team, 1998

Table A.2.2-8 SUPPLY AND DEMAND OF VEGETABLE IN SANTA CRUZ DEPT. (1998)

							Unit: 1,000 tons
	Supply			Demand			
	Production	Inflow	Total	Consumption	Outflow	Total	S/D Balance
Valley	50	0	50	5	14	19	+31
Low land	21	0	21	25	0	25	-4
Import		0	0	-	0	0	0
SC City	. 0	65	65	102	0	102	-37
Total	71	65	136	132	14	146	-10

Source: JICA Study Team, 1998

Table A.2.2-9 SUPPLY AND DEMAND OF FRUIT IN SANTA CRUZ DEPT. (1998)

							Unit: 1,000 tons
	Supply			Demand			
	Production	Inflow	Total	Consumption	Outflow	Total	S/D Balance
Valley	13	0	13	. 3	0	3	+10
Low land	149	0	149	86	. 17	103	+46
Import	-	1	. 1	• -	•		+1
SC City	0	61	61	121	0	121	-60
Total	162	62	224	210	17	227	-3

Table A.2.2-10 PRODUCTION OF FRUIT AND VEGETABLE IN BOLIVIA

Unit: tons 1993/94 **Product** Nation/Dept. 1994/95 1995/96 1996/97 Potato Bolivia 631,999 604,735 715,702 788,715 Santa Cruz 36,477 50,779 57,800 63,845 Cochabamba 137,593 125,570 145,000 159,004 Cassava Bolivia 292,921 309,328 298,772 333,638 Santa Cruz 158,460 165,000 170,750 185,995 Cochabamba 32,039 35,246 40,526 43,347 Tomato Bolivia 48,731 63,637 58,973 80,001 Santa Cruz 40,419 55,580 48,075 67,625 Banana Bolivia 100,700 150,928 147,689 146,204 Santa Cruz 15,405 16,000 18,794 19,644 Cochabamba 71,955 121,651 114,178 109,880 Platano Bolivia 328,515 339,191 346,206 366,607 Santa Cruz 116,400 108,000 112,019 115,358 Soybean Bolivia 709,892 871,184 861,636 940,820 Santa Cruz 691,671 853,010 843,030 921,953

Source: Anuario Estadisco 1997 (INE)

Table A.2.2-11 ORIGIN/DESTINATION OF FRUIT AND VEGETABLE IN SANTA CRUZ DEPT. (1994)

						Un	it: 1,000 to
	Valley	Low land	SC City	Sub-total	Outside SC	Export	Total
Valley	22	0	52	74	20	0	94
Low land	0	177	38	215	77	0	292
SC City	0	5	0	5	. 0	0	5
Sub-total	22	182	90	294	97	0	391
Outside SC	0	1	143	144	-	0	1440
Total	22	183	233	438	97	0	535

Table A.2.2-12 ORIGIN/DESTINATION OF ROOT CROP IN SANTA CRUZ DEPT. (1994)

			1			Unit:1,000 ton		
	Valley	Low land	SC City	Sub-total	Outside SC	Ехроп	Total	
Valley	14	. 0	7	21	4	- 0	25	
Low land	0	84	10	94	68	0	162	
SC City	0	2	. 0	2	0	0	2	
Sub-total	. 14	86	17	117	72	0	189	
Outside SC	0	1	35	36	•	0	36	
Total	14	87	52	153	72	0	225	

Source: JICA Study Team, 1994

Table A.2.2-13 ORIGIN/DESTINATION OF VEGETABLE IN SANTA CRUZ DEPT. (1994)

	* * * * *		*			Un	Unit:1,000 to		
	Valley	Low land	SC City	Sub-total	Outside SC	Export	Total		
Valley	5	0	41	. 46	15	0	61		
Low land	0	20	3	23	0	0	23		
SC City	0	2	0	2	0	0	2		
Sub-total	5	22	44	71	15	. 0	. 86		
Outside SC	. 0	. 0	39	. 39	· -	0	39		
Total	5.	22	83	110	15	0	125		

Source: JICA Study Team, 1994

Table A.2.2-14 ORIGIN/DESTINATION OF FRUIT IN SANTA CRUZ DEPT. (1994)

					Unit: 1,000 tor		
	Valley	Low land	SC City	Sub-total	Outside SC	Export	Total
Valley	3	0	4	7	1	0	8
Low land	0	73	25	98 .	. 9	0	107
SC City	0	1	0	- 1	0	0	1
Sub-total	3	74	29	106	10	0	116
Outside SC	0	0	69	69	· •	0	69
Total	3	74	98	175	10	0	185

Table A.2.2-15 ORIGIN/DESTINATION OF FRUIT AND VEGETABLE IN SANTA CRUZ DEPT. (1998)

						Unit: 1,000 tons		
	Valley	Low land	SC City	Sub-total	Outside SC	Export	Total	
Valley	21	0	72	93	24	0	117	
Lowland	0	212	59	271	91	0	362	
SC City	0	0	0	0	0	0	0	
Sub-total	21	212	131	364	115	0	479	
Outside SC	0	0	143	143	_	0	143	
Import	0	0	13	13	0		13	
Total	21	212	287	520	115	0	635	

Table A.2.2-16 ORIGIN/DESTINATION OF ROOT CROP IN SANTA CRUZ DEPT. (1998)

	<u> </u>	<u> </u>			34 to 150	Unit: 1,000 t		
	Valley	Low land	SC City	Sub-total	Outside SC	Export	Total	
Valley	13	0	17	30	5	0	35	
Low land	0	101	10	111	81	0	192	
SC City	0	0	0	. 0	0	0	0	
Sub-total	13	101	27	141	86	0	227	
Outside SC	0	0	26	26	•	0	26	
Import	0	0	12	12	0	n (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	12	
Total	. 13	101	65	179	86	0	265	

Source: JICA Study Team, 1998

Table A.2.2-17 ORIGIN/DESTINATION OF VEGETABLE IN SANTA CRUZ DEPT. (1998)

·			<u> </u>		<u> </u>	Unit: 1,000 tons		
	Valley	Low land	SC City	Sub-total	Outside SC	Export	Total	
Valley	5	0	51	56	13	0	69	
Low land	0	25	8	33	. 5	. 0	38	
SC City	. 0	0	0	0	0	0	0	
Sub-total	5	25	59	89	18	0	107	. '
Outside SC	0	0	43	43		0.	43	
Import	0	0	0	. 0	. 0	•	0	
Total	5	25	102	132	18	0	150	

Source: JICA Study Team, 1998

Table A.2.2-18 ORIGIN/DESTINATION OF FRUIT IN SANTA CRUZ DEPT. (1998)

				$\mathcal{L}_{\mathcal{A}} = \mathcal{L}_{\mathcal{A}} = \mathcal{L}_{\mathcal{A}}$	Unit: 1,000 tons		
	Valley	Low land	SC City	Sub-total	Outside SC	Export	Total
Valley	3	0	4	7	6	0	13
Low land	0	86	41	127	: 5	0	132
SC City	0	. 0	0	0	. 0	0	0
Sub-total	3	86	45	134	11	0	145
Outside SC	0	0	74	74	-	0	74
Import	0	0	1	. 1	0		• 1
Total	3	86	120	209	11	1	220