Appendix Tab. 34 伐採許容量の算定

Timber production area (Gera Forest from Compertment 1 to 15) 26.500ha 320.4 ml/ba Standing volume Incremental yields (EFAP Annex 1.3 Table 2, Attachment Table 2.1) 0.98 ml/ha/year 0.306% Incremental rate 1 : Cutting cycle s : Selecting cutting rate p : incremental rate $(m-m\cdot s)1.0 p^{-1}=m$ $(1-s)1.0p^{1}=1$ 1.0 p⁻¹ = $\frac{1}{1-s}$ $1 \cdot \log 1.0 p = \log 1 - \log (1 - s)$ $1 = \frac{-\log(1-s)}{\log 1.0 p}$ s = 0.2 $1 = \frac{-\log 0.8}{\log 1.00306} = \frac{0.09691}{0.001327} = 13$ 26,500÷73≒363(ha) $320.4 \times 0.2 \times 363 = 23.261 (m)$ $1 = \frac{-1000.9}{1001.00306} \Rightarrow \frac{0.04516}{0.001327} \Rightarrow 34.5 \Rightarrow 35$ 26.500 ÷ 35 = 151 (ba) $320.4 \times 0.1 \times 757 = 24.254 \text{ (nf)}$ Estimation of illegal felling volum by encroachment Encroachment area : 263ha (Within Geta Forest, F1) Encroachment area (Within Fl. Tmber production area) = Timber Production area
Within Gera Forest, Fl $=263 \cdot \frac{26,500}{57,600} = 121 (ba)$

 $121 \times 0.3 = 36.3 (ha)$ $320.4 \times 36.3 = 11,630 (ml)$

Management Plan is cattied out.

On the assumption that 70% of the encroachment will be presented when the

Appendix Tab. 35 (1) 既存人工林の伐採量計算表

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Appendix Tab. 35 (2) 既存人工林の伐採量計算表

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Appendix Tab. 35 (3) 既存人工林の伐採量計算表

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Appendix Tab, 35 (4) 既存人工林の伐採量計算表

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Appendix Tab. 35 (5) 既存人工林の伐採量計算表

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Appendix Tab. 35 (6) 既存人工林の伐採量計算表

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Appendix Tab. 35 (7) 既存人工林の伐採量計算表

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Appendix Tab. 35 (8) 既存人工林の伐採量計算表

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Appendix Tab. 35 (9) 既存人工林の伐採量計算表

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	COMP.	Species	Area Pie	A Land	Age St	Stems/ DE	DBH TH		echanes (m)	m (m²/ h (y)	Aren Gau) Age	-	~~1	A. A.	1	thrin. /he(m²)	3 2	(24)	him	¥
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Appendix Tab. 36(1) 年次別造林計画面積(ベレデ フォレスト)

ſ				T	T	1	T			Ţ	1	27.0		Tica	17.					
		Remarks									Pinus patula, vearl	Cupressus lusitanica	Pinus patula	Cupressus lusitanica	Pinus patula, yeari	Eucalyptus spp.				
		Toati	213	7.2	19	999	22	136	25	1,153		4	2	4			9	17	1,170	
	Ì	year 10						21		2				4				4	134	
	ŀ	year 9					35	\$		124		4			. a than it some			4	128	
		year 8	73	27						100							Antion Trans		199	
		year?	110							110									110	
		year 6	33		61	92				117						-	9	7	124	0.8ha)
	Plant plan	усы 3			•	120				120			63					2	122	Belete (0.8ha)
	ř	year t				120				120									120	
		year 3				120				120									120	
		year 2				120				120									120	
		year I			:	9			. 52	112								:	112	
		Area available to plant (ha)	213	27	61	999	22	156	52	1,153		4	2	4		1	9	17	1,170	
		Area available to plant (%)	8	80	100	70	8	8	08											
		Турс	E	æ	F3	ድ	E	£	E		PL	Ρľ	PC	PL	P	P.L.	Р.			
	lition	Soil type	CMd	⊃Md	СМА	30.0 CMd NTh CMe	29.3 NTh-CMd, NTh	ν _T ν	VTh NTh-CMd		1.0 Cmu	8.3 Cmu	Ome	8.7 Cmu,CMe	19.3 NTh,NTh-CMd	43.3 CMd, CN4-NTh	43.0 CMd. CNd-NTh			4.
	Site condition	Stope (%)	34.0 CMd	18.0 CMd	40.4 CMd	30.0	29.3	27.2 NTh	40.0 NTh		1.0	8.3	1.9 Сти	8.7	19.3	43.3	43.0			
		Elevation (mln.) (m)	029'1	2,040	1,540	1,580	2,040	2,080	1,740	1	2,040	2,040	2,040	2,080	2,120	1,280	1.280		;;	
Bolete		Elevation (max.)(m)	1,940	2,100	1,860	2.160	2,376	2,300	0961		2,120	2,120	2,120	2,120	2,300	1,460	1.460			
		Area (ba)	266.0	34.0	61.0	809.0	97.0	195.0	65.0	1,527.0	1.0	8.3	1.9	8.7	19.3	0.9	9.9	46.5	1.573.5	shment
	Division	Subcompartment No.	8	88	010	8	904	98	8		018	020	021	023	027	018	017		<u> </u>	Nursery setablishment
กรฑค	င်	Compartment No.	8	02	03	60	03	ೞ	ક	1	20	20	02	20	02	8	8	l _		Nursen
Porest name		Forest / None-forest	ĹL.	Û.	ŭ.	Ĺ.	ı.	Œ	ú	Subtotal	(1 ,	ĹĹ.	(L	(L	ĹL.	le.	u	Subtota	Total	1

Appendix Tab. 36 (2) 年次別造林計画面積(ゲラ フォレスト)

	7	Remerks	138	622	73	401	44	76	14	53	88	040	53	131	136	5.6	22	191	273	201	119	171	114	112	5.5
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		year 8														╛	1			ଛି	119		_	_	320 Sedi
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	Ī	year 6							14	53	68	\$				Ì		150		Ì					325
	_	Year 5	138	8											136										303
	Plant plan	year 4		8	73							٦													273
	۵	year 3				Ē	3	76																	22 0
	Ì	year 2				Š																Ī			200
	ŀ	year ł		1		300			:							35									.156
		Area available to plant (ha)	138	229	73	104	44	76	34	53	32	40	53	131	136	9 8	24	191	273	201	119	171	114	112	2,717
		Arce available to plant (%)	8	80	08	8	8	100	100	8	8	100	33	100	70	8	8	8	8	8	8	8	8	æ	
		Туре	5.	£	F4	33	F3	14	F3	83	F3	33	74	F4 -	£	δ	E	b	E	Œ	E	ž.	æ	33	
	condition	Soft type	NTh Lpd-NTh	NTh, LPR-LVh	#LLN	NTh , LPg-LVh	NTA .		2	ל	Ż	Z	Ż.	NTA	Ż	Z	Z	z	NTb	AT.N	Z	Ż	2	z	
П	Site cor	Stope (%)	21.3	11.4	11.5	12.9	11.5	22.5	11.5	5.0	16.5	5.0	40.0	23.5	20.3	22.5	40.0	5.0	22.7	17.8	13.5	6.22	14.6	32.3	
	S	Elevation (min.) (m)	2,080	2,020	2,060	1.900	340	1,880	1,940	0061	1,920	1,940	2,360	2,260	2,060	2,020	2,320		1.940		L	2,200		_	щ
Gerta		Elevation (max.) (m)	2,280	<u> </u>	┖	<u> </u>	<u> </u>		ļ			ļ	L	٠						5.7	نسط				┝╌╣
		Arca (ha)	173.0	286.0	91.0	501.0	49.0	76.0	14.0	59.0	75.0	40.0	53.0	1	194.0	70.0	,	3		223.0	132.0	190.0			ല
	Division	Subcompartment No.	8	015			<u>. </u>	<u> </u>	<u>1 </u>				1	1	8			013	ı		I . i				
Forest name		Compartment No.	8	8	8	8	8	80	80	88	8	8	13	15	16	16	91	16	16	16	16	18	38	19	Total
Fore		Forest / None-forest	4	<u></u>	ú	í.	ú	ſz,	12	α	12.	<u></u>	ß	Ĺ	fr.	z	ε.	z	u.	ÇL,	(L	ĹL,	ſ2.	, u	\Box

Appendix Tab. 37 既存人工林における保育計画

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7		4	7	⊉	17	1.7	17	81	18	18	18	19	7.7	22	7.	16	16	. A	4	5	24	9		Weeding	ACCUSE	18 F
	- Canada	٤	=	15 high	16		16	17	17	12	17	18	21	21	.23	15	18	1.5	1.1	18	23	8		Weeding	*CC+SS	., 15
æ	₹ <u>₹</u>			49		16					L			,					÷				49	¥	Ž.	1st 49 high
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5	\$ <u>\$</u>	┞		<u> </u>	-				-	_		1		_	Н	-		Н		_	-	H			1	_
	- Ac-	49 11 high		13	. #1	14	14	3 15 high	4 15 high	41 15 high	\$1	- 16	61	61	. 21	13 13 Mgft	4 13 Net	15	15	1 16 high	21	¢	126	Meeding	ALCOST	136 bigh
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33	Zet . Inj. Age rem	ြို့	0.	49.0 12.1st	13	13	13	7	14	14	4	51	81	18.0 18 high	20	21	12	7	14	SI .	8	5	. 67	Weeding	MACCHIN	49 1st 18 high
	₹			7	12 high	12 high	12 high				13 high	14 lst	17 high		-			13 high	13 hich	;-			1.00	Weeding	3	
2	Age (Ja)]	-	SI 12	7 12	4 12	=	2	13	24 13	14 14	7 17	17	19		11	1 13	2 13	14	01		-67	-	95.000	14 1st 53 high
	Are remarks	* . !st	×]×(10 access				12 1st	12 lst	12 1st			***		18 high	10 1st	10 1 10		24.5	13.14	18 Neh	3 Weeding		Veeding	2	
		I o	ł	49 10	=	=	=	22 55	7	41 12	2	13	16	91	- 18 - 18	13 10	-	-	.12	1.1	-	, ,	23	3 Weeding	49 access	126 txt 5 high
	Plunted Avea	L	L	L	<u> </u>	<u> </u>	£2	9	ź	Ŀ	Ç.	150 851	₽	123	1980	8961	88	15 gs	1986	: EB5	Ļ	1995		-	_	
#	75.5	85	ı	1988	1987	2861 6	1987	4 1986	1,986			5 1985	8 1982				١.	51								
	Ęį	_	٠.	Ľ	8.0	6.9	4.4	3.4	4.1	40.7	23.7	13.5	8.9	9.71	4.0		.4.0	-	2.2	1.8.2	0.1	2.6			:	
	Samolon	32 Cupressus lusituaien	34 Cupressus lustanics	30 Cupressus lusitanica	29 Cupressus Justaniea	30 Cupressus lusimnem	31 Capressus Justianica	14 Cupressus lusismica	15 Copressus lusitanica	16 Cupressus lusitunica	28 Cupressus lusitance	33 Cupressus lusitunes	44 Cupressus luntanica	52 Cupression Justianica	19 Cupressus Justanica	**		,	3	.35	",	2				
		Cuntin	Cum	Cupres	Cupres	Cupres	Cupres	Cupre	Cum	Cupre	Cupre	Cupre	Cupre	Cupres	Cupre	33 P. nerule	34 P. Dutula	20 P. percula	21 P. partuh	28 P. Pastula	18 P. netulu	2 E. allen			Total	
	3,6				L				<u> </u>							1	٠	L		Ŀ	<u> </u>		ĺ			
	Comp.	2	91	2	ç	90	\$	3	٣	80	9	8	8	٤	7	2	2	7	·	2	ľ	2		ì		
	į	ٷ	Ę	E E	Belete	Helete	Helote	Belete	Belete	Hekete	Belete	Selete	_	Pelete	Belete	Belete	S T	Selecte	Selecte	Belete	9	Belege				

Appendix Tab. 38 社会林業プログラムに適用可能な樹種のリスト

# 建绘用材 采获 遊蜂 学校田畑造成 iana	宝子村		15%田][3			1 %	ログラム別	
### ##################################	斯瓦	124	(本田)	世田	格客	多数招往的	聽家植林	ハ・ソファゾーン植林	蚕蜂指導智及
## # # # # # # # # # # # # # # # # # #		· [秦	研究五名	X X	# # #	くいませま	200		*
### ### ### ### ### ### ### ### ### ##	Acorio alhida	*			*		*		+
iana * * federicii * * andarin * * * nica * * * inca * * *	dooring decurrence	*	*			*	*		*
riana * * * * * * * * * * * * * * * * * *	Acaria accuración	*			*		*		*
	Albinio ochimnoriono	*					*		
* * * * * * * * * * * * * * * * * * * *	Allocation additional				*				*
nandarin *<	Allinger 18-addit teder terr			*		*	*		
* * * * * * * * * * * * * * * * * * *	Annona muricata			*	*	*	*		*
loqua * * * * * * * * * * * * * * * * * * *	Citrus-orange, mandarın				,				*
10qua	Cordia africana				*			1	
a * * * * * * * * * * * * * * * * * * *	Cupressus Jusitanica	*	*			*	*	•	
* * * * * * * * * * * * * * * * * * *	Eriobotrva japonica, loqua	*	*	*	*	*	*		K
773 * * * * * * * * * * * * * * * * * *	Firestantis orandis	*	*			*	*	*	
tus. citriodora	Ting Implie colima	*	*	ļ 		*	*	*	
ea robusta	Lucaiffico. Sairgia	*	*			*	*	*	
ea robusta * * * abyssinica * * * al leucocephala * * anceolata * * ia ferruginea * * kenyensis * * americana, avacado * *	tucalyptus. citriodora				*				*
ea robusta * * * abyssinica * * * a leucocephala * anceolata * * ia ferruginea * * kenyensis * * americana, avacado * *	Gatama					1	3		
abyssinica * * * ia leucocephala * anceolata * ia ferruginea * kenyensis * americana, avacado * *	Grevillea robusta	*	*			•			
anceolata * anceolata * ia ferruginea * kenyensis * americana, avacado * *	Hagenia abyssinica	*	*			*	*		
americana, avacado * * * * * * * * * * * * *	Leuraena Jeurocephala	*					*		
kenyensis * americana, avacado * * * * * * * * * * * * *	Massa Jancoolata	*				*	*		
kenyensis * * americana, avacado * *	Willottin formations	*				*	*		
americana, avacado **	Millettia iciiuginea	*		<u> </u>			*		
americana, avacado * *	UCOLEA KELIYELISIS			*		*	*		
avacado *				*		*	*		
*	- 1					1	,		
Sesbania sasban	Sesbania sasban		*			•			

Appendix Tab. 39 社会林業モデル候補村の集落あたり平均世帯数(住民参加の規模)

社会林業プログラム	District	Village	世帯数	Community 数	平均世帯数
学校苗畑造成	Seka Chekorsa	Sombo	932	9	104
	Gera	Chira	536	8	67
農家植林普及	Seka Chekorsa	Kishe	1,033	5	207
		Sombo Daru	1,495	16	93
	Gera	Chira	536	8	67
		Wegecha	.531	4	133
バッファーゾーン植林	Seka Chekorsa	Elke Togobe	1,534	14	110
		Komo Hari	1,352	12	113
	Gera	Gore Dako	370	3	123
		Dusta	784	8	98
		Dedo Boge	660	88	83
合計			9,763	95	103

Appendix Tab. 40 学校苗畑造成事業費用(1箇所あたり)

年次	費目	工程 (細目)	数量	単価	合計金額
				(Birr)	(Birr)
初年次	会議費	会場費	12[0]	100	1,200
·	İ	委員手当て	10人×8回	70	5,600
	資器材購入費				10,000
	種子採取経費		10人×10日	4	400
	小計				17, 200
2年次	苗畑造成	造成、整地、地ならし	0. 25ha	1,500/ha	375
	育苗作業	播種準備、育苗管理			10,000
	人件費	DAの給与	2人	600/人月	14,400
	建物	管理事務所兼倉庫	1棟	800	800
	小計				25, 575
·	合計				42,775

Appendix Tab. 41 農家植林普及事業費用(1 箇所あたり)

年次	費目	工程	数量	単価	合計金額
	1.			(Birr)	(Birr)
初年次(6か月)	資器材購入費				10,000
	小計				10,000
2年次 (1か年)	苗畑造成費	人力整地	0. 2ha	1,500/ha	300
	育苗作業費	種子採取~配布	60,000	0.2/本	12,000
	建物	管理事務所	1棟	800/棟	800 -
		* ラインク・(像小屋	1棟	300/棟	300
		倉庫	1棟	1,000/棟	1,000
	小討				14,400
	合計				24, 400

Appendix Tab. 42 (1) バッファーゾーン植林事業費用(デド ボゲ)

年次	費目	細目	数量	単価	合計金額
170				(Birr)	(Birr)
	プログラム作成経費	会議費	5人×6回	100	3,000
•		作成経費(測量~図面作成)	10011	50	5,000
	現地調査および	旅費	5 人×20日	50	5,000
	住民への説明経費				1,000
	小計				14,000
2	苗畑造成費	入力整地	0.5ha	1,500/ha	750
μ	育苗作業費	種子採取~山出し	374,362	0.2/本	
	建物	苗畑事務所	1棟	800/棟	
	XE 14	まず722 作業小屋	1棟	300/棟	300
	:	が介ソウス、休憩所兼倉庫	1棟	1,000/棟	
	小計				77,722
	合計				91,722

注:苗畑造成、育苗作業を地域住民の共間作業(Debo など)で実施する場合は、当該経費不要。

Appendix Tab. 42 (2) バッファーゾーン植林事業費用(ドゥスタ、ゴレ ダカ)

年次	費目	細目	数量	単価 (2:)	合計金額 (Birr)
初年次	プログラム作成経費	企議費	5人×6回	(Birr) 100	3,000
1014-57	プログラス行及程具	作成経費(測量~図面作成)	100 H	50	5,000
	現地調査および	旅費	5人×2011	50	5,000
	住民への説明経費	消耗品			1,000
	小計		0.11	1 500 A	14,000 600
2年次	苗畑造成費 育苗作業費	人力整地 種子採取~山出し	0. 4ha 351, 965	1,500/ha 0.2/本	70, 392
	建物	苗畑事務所	1棟	800/棟	800
		がライング (僕小屋	1 棟 1 棟	300/棟 1,000/棟	
		ガイドハウス、休憩所兼倉庫	1 1%	1,000/1末	73,092
	小計 合計		<u> </u>		87, 092

注:苗畑造成、育苗作業を地域住民の共同作業(Debo など)で実施する場合は、当該経費不要。

Appendix Tab. 42 (3) パッファーゾーン植林事業費用 (エルケ トゴベ)

年次	費目	細日	数量	単価	合計金額
		. 11	1 1 1 1 1 1	(Birr)	(Birr)
初年次	プログラム作成経費	会議費	5人×6回	100	3,000
		作成経費 (測量~図面作成)	10011	50	5,000
	現地調査および	旅費	5 人×20日	50	5,000
	住民への説明経費	消耗品			1,000
	小計				14,000
2年次	苗畑造成費	人力整地	0. 2ha	1,500/ha	300
	育苗作業費	種子採取~由出し	95,990	0.2/本	19, 198
	建物	苗烟事務所。	1棟	800/棟	800
		ポライングイ僕小屋	1棟	300/棟	300
		がイドハウス、休憩所兼倉庫	1棟	1,000/棟	1,000
	小計				21,598
	合計				35, 598

注:苗畑造成、青苗作業を地域住民の共同作業(Debo など)で実施する場合は、当該経費不要。

Appendix Tab. 42 (4) バッファーゾーン植林事業費用 (コモ ハリ)

年次	費目	細目	数量	単価	合計金額
				(Birr)	(Birr)
初年次	プログラム作成経費		5人×6回	100	3,000
		作成経費 (測量~図面作成)	100H	50	5,000
	現地調査および	旅費	5 人×20日	50	5,000
	住民への説明経費	消耗品			1,000
	小計				14,000
2年次	苗畑造成費	人力整地	0. lha	1,500/ha	150
	育苗作業費	種子採取~由出し	54, 395	0.2/本	10,879
	建物	苗畑事務所	1棟	800/棟	800
		ボライング(僕小屋	1棟	300/棟	
	<u></u>	ガイドノウス、休憩所兼倉庫	1 棟	1,000/棟	1,000
	小計				13, 129
	合計				27, 129

注:苗畑造成、育苗作業を地域住民の共同作業(Debo など)で実施する場合は、当該経費不要。

Appendix Tab. 43 伝統的養蜂の指導普及および改善事業経費

我们	細目	数量	単価	合計金額
			(Birr)	(Birr)
改善委員会経費	会場費	3 🕅	100	300
	委員手当て	5人×3回	100	1,500
現地調査費	旅費	5人×60日間	50	15,000
,,,,,,,,,,	消耗品			5,000
指導普及事業費	旅費	5 人×6 0 日間	50	15,000
1114711777777	普及册子作成	1,000部	20	20,000
	消耗品			5,000
合計		<u> </u>		61,800

Appendix Tab. 44 天然林伐採経費の算出根拠

- 1 Survey for trees to be felled
 - Number of upper story of Fl forest : 456/ba
 - Proportion of commercial species in the above number: 43.7%
 - Number of commercial species: 456×0.437 = 199/ha
 - Number of felting tree: 199×0.2(felling rate) = 40/ha
 - Fellig volume per ha: 320.4×0.2=64.08 m/ha
 - Survey area: 11,630 ÷ 64.08 = 182ha
 - Efficiency of the survey: 40 trees/1 group, 1 day \rightarrow t ba/1 group, 1 day 4(Birr/day) $\times 2 \times 182 = 1$, 456(Birr)
- 2 Measurement of felled trees
 - Efficiency of measurement: 20 trees/I group.1 day \rightarrow 0.5 ha/I group, 1 day 4(Birr/day) $\times 2 \times 182 \div 0.5 = 2.912(Birr)$

Appendix Tab. 45 人工林伐採経費

依城區稿(ha)									1			10/0	12/
		年次	-1	2	က	4	'n	٥	•	ø	D.	<u></u>	
英領	年次 作業	収穫(m³)									0.001	0 601	202
Currescus lucitanica	金	ļ	72.3	9.5			69.4			,	700.0	136.0	0.000
Copi cocco increase	生	. 0	50 B	28 7		40.7	39.8	54.2	7.5	18.3	28.5		328.3
rinus patula	· 27 至 7 1	3 (?	3	F2 &		12.5	8.00	102.3	74.4	37.8	89.2	400.6
Grevillea robusta 🚓	之 宜	200			9.00	<u>م</u>	3			4	4.0	6.0	15.9
	70年代					;;	0 1	0 73	0.83	70.0	85.0	0.06	440.0
Eucalyptus spp.	4至	_				,	0.40	0.4.0	2 6		000	2002	0 100
	6. 题 9.	33	27.3	19.6		20.4		•	107.0). •	200) (200
	全題も	co.	9.5	17.7		30.3		23.8				>. * *	1000
	12 配金	. .			35.1	13.5	19.4	8.4					4.07
	2000年	,					7.3						7.3
Hagenia abvesince						1.0				,) C
Lanina and a second	今四									1.0			7
Vivad	(少)						1.0						1.0
会核镓勒 (BiE)										·	(7	7
		年次		2	က	4	တ	9	7	x 0	J)	10 01	ia In
奏編	年次 布黎	A(相Birl/ha										000	000
essus lusitanica	至女	٦,	Γ	1,472			11,104	(t		600	25,600	30,720	80,454 50,004
Pinus patula	四分	8	9,108	15,966		7,326	1,104	9,750	765.1	#67°°	0,100	0	# b = 0 = =
A Constitution of the Control	3	10			15.544		3,625	8,932	29,667	21,576	10,962	25,868	116,174
Crevilled roousta	₹ 1					1.824	•			3,840	3,840	5,760	15,264
							2.376	2.816	2,992	3,476	3,740	3,960	19,360
Eucalyptus spp.	大 <u>三</u>	7.		9 156		2 244	: :		11.836	7.040	7,480	8,690	42,449
	三 三 5 5 5	V	200) to to		, id		4.403		,		066 6	24,975
	阿女	m		6,2,0	•	0,00	0	000 F					15,280
	13 配 次	4	-		7,020	2,700	0000	1,000					5.183
	18 主伐					(5,165						180
Hagenia abyssinica	三三次	180				180				180			180
Juniperus procera	三									2			180
Mixed	配役	:					180						
								200	1 . C	332 36	59 019	20 998	358 336
₩ <	題。		25,381	22,869	22,564	18,056 1,824	5,183	190.12	45,645	3,840	3,840	5,760	20,447
ta (c	1+1×												

Appendix Tab. 46 収穫表を基にした伐採木価格の平均値計算表

1) Transmission pole/fimber Species Group 2, Eucalyptus grandis/Eucalyptus saligna Plants/ha: 1,600

Site class: 24 m³/ha Production model No: 7

	LIOIL MOU					Thinned	/Removed			
Age	Tree height (m)	DBH (cm)	Operaton		Sawlogs	Trans.	Small poles	Fuel- wood		Unit price
				Unit price	125.4	102.0	77.8	46.8	Sub total	(Birr/ m³)
4.0	13.8	12.4	Thioning 1	m³ Birr			6.0 466.8	8.0 374.4	14.0 841.2	60.1
6.0	18.2	16.8	Thinning 2	m ³ Birr	4.5 564.3	manadi mana dake man-madan nibu bibah di Alimanan	16.5 1,283.7	12.0 561.6		73. 0
9.0	23.1	23.9	Thioning 3	m³ Birr	7. 7 965. 6	·	25.4 1,976.1	22.0 1,029.6		72. 1
13.0	27.0	32.5	Thinning 4	m ³ Birr	15,0 1,881.0			15.0 702.0		84.4
18.0	30.1	38.5	Final Felling	m³ Birr	74.0 9,279.6			41.5 1,942.2	222.0 21,298.3	95. 9

2) Timber

Species:Groom 3. Cupressus Insitanica/Grevillea robusta/Pinus patula Plants/ha: 1,600

Site class: 24 m³/ha Production model No. 9

	T	nout				Thinned	/Removed			
Age	Tree height (m)	DBH (cm)	Operaton		Savlogs	Trans. pole	Small poles	Fuel- wood		Unit price
			-	Unit price	193.8		77.8	14.8	Sub total	(Birr/ m³)
8.0	12.6	17.8	Thinning 1	m³ Birr	3.0 581.4		8.0 622.4	37.0 547.6		36.5
12.0	17.7	24.4	Thinning 2	m ³ Birr	27.0 5,232.6		5.0 389.0	22.0 325.6		110.1
18.0	22.5	32.2	Thinning 3	m³ Birr	65.0 12,597.0		5. 0 389. 0	18.0 266.4	88.0 13,252.4	150.6
26.0	25.5	38.3	Final felling	m³ Birr	328.0 63,566.4	, makinipi, pulik ab-19a (kibikum kalifika) se	8.0 622.4	50.0 740.0	386.0 64,928.8	168.2

Source: The Orgat-Stedforest Consortium, Forest Products Pricing and Marketing Study Vol. 2. Ministry of Agriculture, 1990

Stumpage price (Source: FWCD(Oromia)) Birr/m³

	Indigenous	Cyprus / pine	Eucalyptus
Sawlog	292.1	193.8	125.4
logging & Skidding	42.2	38.8	38.8
Fuelwood	54.8	14.8	46.8

Appendix Tab. 47 人工林伐探収入

以海绿(m3)								ļ	c	6	C	J	201	1014
			年次	-1	23	'n	-) '	J.	٥	-	0	•	2	; ;
英	千次	右袜	収穫(m,*)									7,680	916	23.708
Cupressus lusitanica	00	間伏 1	48	2,914	583			3,315	6	0	79.	956 6	1	31,092
Pipus patula	12	超伏 2	54	4,396	6.994		6,712	4,225	4,030 0.00	000;	4104	2000	14.413	55,635
Grevillea robusta \$	18		88			6,502	•	1,307	5,418	11,547	0,010 0,010	2,000	4 011	14,050
	- 56	父	386				1,553	004	000	050	30.1	001	1.260	6.160
Firestontus con	4	間校 1	14					756	988	70.6 0	1,100	064,1	0,100	10.722
The specification	<u>.</u>	今の記念	33	3.366	1,711		1,067			9,616	2,112	*****	0,00	203.01
	> 0	50000000000000000000000000000000000000	100 100	518	2,106		2,203		2,901				2,67	000"0"
	0.00	マ く 会 記 記 記 記 に た た た た た た た た た に た た た た に た た た に た に た た た に た た に た に た た に た た に た に た に た た た た た た た た た た た た た た た と た と	3 6)	•	3,638	2.261	3,461	993					10,555
	3 0	r 乙全	212					2,495						2,495
Marinio characina		(全)					41		i I					* 6
ragella adjosilica		全 至 至									191			The C
Juriperus procera		全						58						88
Allxed		<u> </u>												
以入(Birr)									K	i.	٥	٥	C,	
			午次	- 	2	က	4	ın	۵	•	0	Đ	2	
李	子子	企 新	英衙1251年/年3	1								000	700 000	OCE 242
Cupressus Jusitanica	-	超久 1	36.5		21,280			120,998	010	030 12	198 156	280,320	*00.000	3.423.230
Pinus patula	12	配依 2	110.1	484,000	770,039		738,991	465,173		7,000	1 207 170		2 170 598	8.378.631
Grevillea robusta	18	題決め	150.6			979,201		196,834	7 107,188		707 170		674 650	2.363.205
	92	主次	168.2				261,209	3 3 7 1 7	0.01	20.00	120,100	71 510	75 796	370 217
Eucalyptus spp.		間依 1	60.1		•		1	45,430	55,650	017,70	154 176	163.812	190.3111	1,439,779
	9	超次 2	73.0	. 4	124,903		188,77		900 169	30C130F	21117	20000	214,137	771.326
		置令 3	72.1	37,348	151,843	!	158,836		701,507					873.792
		配会を	84.4			307,047	190,828	292,108	83,804					228 272
		学	95.5					238,273		;				2.247
Hagenia abyssinica		調次	54.8	į			2,247				10,467			10,467
Juniperus procera		調後	54.8					000 9			•			6,380
Mixed		間次	110.0					0,000						
				- 1					1 759 901 9 292 900	1	1 656 840	1 896 154	2.987.156	16,141,412
ដ		(2) (2) (3)		873.427	068,065	1,068,065 1,286,248 1,168,793		1,126,929 238,273	7,00,00,1	- 1	- 1		674,650	2,601,478
ţ.	1	#11X												

Appendix Tab, 48 年次毎の保育経費

保育作業面積												1		
. ``	许	\$100 PM	华 康 父 位	-∢	71		₹*	s.	۵		x 0	Tr	2	0
Cupressus lusitanica		極鉄、下刈り、補植	ha	160	192	205	235	255	569	254	252	263	246	2,331
Pinus patula	-	- Naiso	ha		160	192	205	235	255	269	254	252	263	2,085
Grevillea robusta 🕸	63	し か わ と 、	ha			160	192	205	235	255	569	254	252	1,822
	c	校打ち(Access pruning)	ha	49			160	192	205	235	255	569	254	1.619
	S	5 枚打ち(First pruning)	ha	126	14	49			160	192	205	235	255	1,236
	œ	校打ち(High pruning)	ha	S	53	18	126	14	14			160	192	285
Eucalyptus spp.		複数、下刈り、補植	ha	54	\$	89	6/	85	œ	85	84	87	82	27.8
	<u> </u>	N × 15	ha		54	64	88	79	82	8	85	25	83	969
	22	しるむや・孫钦	pa			54	\$	89	79	82	8	85	₹	609
	3	一つる切り・除伐	ha				54	64	89	42	88	90	2	525
在来繼		複製、下刈り、補植	ha	54	64	99	79	85	90	85	84	28	28	778
	-1	NXID.	ha		54	64	88	42	85	8	82	%	83	969
	S.	2 FXU9.	hà			54	\$	89	79	82	8	82	\$	609
	က	NEW CONTRACTOR	ha				54	64	68	73	88	06	S	525
	4	4 つる切り	ha					ጄ	2	æ ;	5	& :	S 1	440
	7	校打ち(しるむり・除役)	ha							54	64	99	79	265
、保査作業経費 (Birr	<u> </u>				·				:	:	;			
1			一类类		2	8	4	5	9	7	×	6	10	10 合計
華編	年次	乔 株	東角(Bir)	ı	•	•			1					
Cupressus lusitanica		植栽、下刈り、補植	136	21,760	26,112	27,880	31,960	34,680	36,584	34,544	34,272	35,768	33,456	317,016
Pinus patula		で変化	25		8,320	9,984	10,660	12,220	13,260	13,988	13,208	13,104	13,676	108,420
Grevilles robusts 3	2	しんとで、深衣	09			009,6	11,520	12,300	14,100	15,300	16,140	15,240	15,120	109,320
	က	校打ち(Access pruning)	100	4,900			16,000	19,200	20,500	23,500	25,500	26,900	25,400	161,900
	ഗ	校打ち(First pruning)	120	15,120	1,680	5,880			19,200	23,040	24,600	28,200	30,600	148,320
	8.	校打ち(High pruning)	140	700	7,420	2.520	17,640	1,960	1,960			22,400	26,880	81,480
Eucalyptus spp.		植栽、下刈り、補植	136	7,344	8,704	9.248	10,744	11,560	12,240	11,560	11,424	11,832	11,152	105.808
		- Axio	52		2,808	3,328	3,536	4,108	4,420	4,680	4,420	4,368	4,524	36,192
	7	しんわら、深分	9			3,240	3,840	4.080	4,740	5,100	5,400	5,100	5,040	36,540
	3	しるむと・帯会	99				3,240	3.840	4,080	4,740	5,100	5.400	5,100	31,500
在米養		植栽、下刈り、補植	184	9,936	11,776	12,512	14,536	15,640	16,560	15,640	15,456	16,008	15,088	143,152
		TX15	02		3,780	4,480	4,760	5,530	5,950	6,300	5,950	5,880	6,090	48,720
	61	一人名の	5			3,780	4,480	4,760	5,530	5,950	6,300	5,950	2,880	42,630
	(L)	TXID.	70				3,780	4,480	4,760	5,530	5,950	6,300	5,950	36,750
	4	しかきを	8					4,860	5,760	6,120	7,110	7,650	8,100	39,600
	2-	校打ち(つる切り・除伐)	06					-		4.860	2,760	6,120	7.110	23.850
a				49 760	70600	92459	136696	139218	169644	180852	:86590	216220	219166	1.471.198
				22,02										

Appendix Tab, 49 道路整備算出根拠

```
Extension of roads improvement: 47 km (5 Roads)
      Surface grading : 60% - 27.6"
                    : 20 n -> 9.2 n
      Graveling
1 Surface grading by bulldover
      1km/4 hours (1 day)
      27.6km ÷ 1km = 27.6 days 4 hours × 27.6 days = 110.4 hours
      110.4 × 400 (Birr/hour) = Birr 44.160
2 Graveling (3m in width × 0.2m thickness of graveling)
      0.6 \,\mathrm{m}/\mathrm{m} \times 9.2 \,\mathrm{km} \times 1,000 = 5,520 \,\mathrm{m}
      5.520 m × 3 ton/m = 15,560 ton 16,560 ton ÷ 6 ton = 2,760 (losties)
       140 (Birr/1 lorry) × 2,760 = Birr 386,400
3 Labourers
      20m/1 day (5 labourers/1 group)
       (27.6 + 9.2) km \times 1.000 \div 20 = 1.840 days
       1.840 \times 4(Birr/day) \times 5(labourers) = Birr 36.800
4 Simple bridges (10m in length × 3m in width, 2 bridges)
       8 logs (8, 72 m)
                             8.72 \times 364 (Birr/m<sup>2</sup>) = Birr 3.200
       bulldozer
                    400 (Birr/hour) × 4 hour = Birr 1,600
       laboucers
                    10(labourers) \times 3(days) \times 4(Birr/day) = Birr 120
       3,200+1,600+120=Birr 4,920 4,920×2=Birr 9,840
```

Total: 44, 160 + 386, 400 + 36, 800 + 9, 840 = Birr 477, 200

Appendix Tab. 50 農業普及員宿舎の建築コスト事例

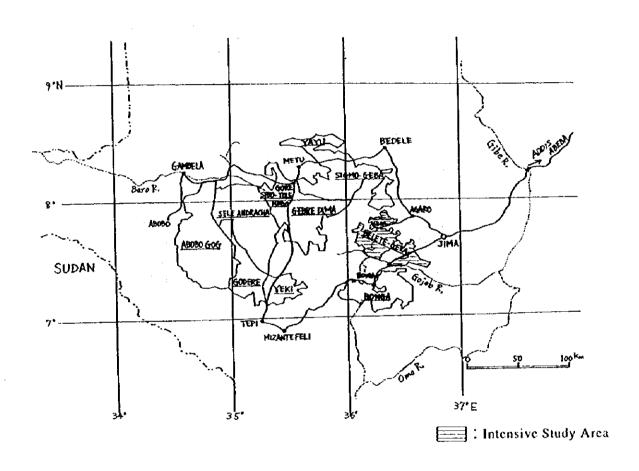
			·	単位;Birr
Village		Helo Seboka	Kachama	Sedi Loya
建物の等級		標準	高級	標準
建築年	作	1997	1993	1996
建築期間	か月	: 4	4	9
耐用年数	年間	30	35	?
総費用金額	Birr	13,420	19,659	14,092
内訳	資材費計	8,867	14,659	8,789
	木材	244	: 0	
	トタン板	2,584	2,584	l
	粘土	100	2,000	
	7 1177	700	1,440	
	セメント	847	2,825	
	ペンキ	190	500	
	その他	4,202	5,310	
	人件費計	4,553	5,000	5,303

Appendix Tab. 51 プロジェクトの収入・支出

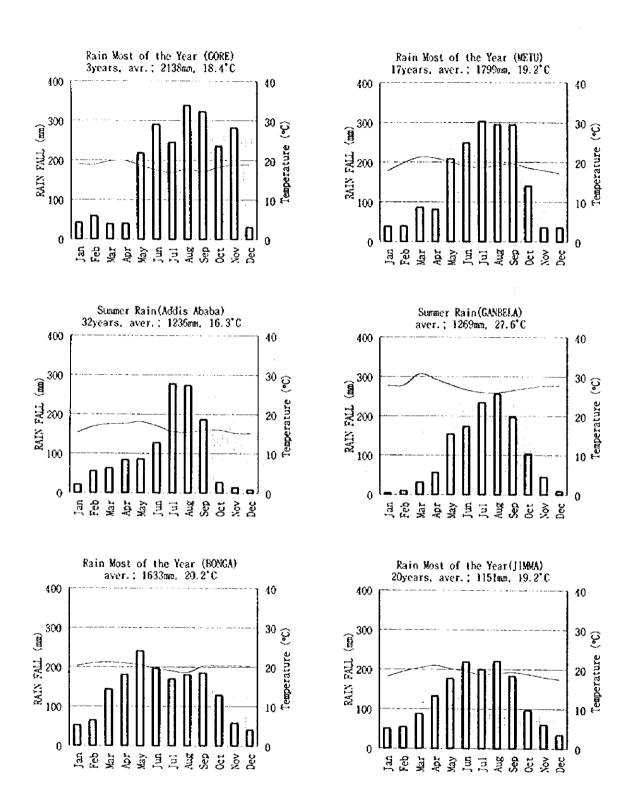
A.大·女出

Ŧ											(FB ir:)
	第 1 年 次	第2年於	第3年秋	第4年次	純5年次	第6年改	第7年次	第8年次	第9年次	第10年次	d a
神体 配子	30	30	30	30	10	101	10	10	10	10	180
女林·昭市	39	35	32	32	53	45	1.1	61	88	125	581
治杖·保護	504	454	485	603	637	681	999	119	126	602	6, 136
4.0林鄉	103	118	61	112	61	53	29	25	37	25	684
施設整備	465	347	337	171	16		4			3	1,343
から存	1,430	829	675	421	287	1,347	1,017	157	237	437	7,497
als	2, 571	1.813	1,620	1,369	1.064	2, 136	1,890	1.551	1,098	1,309	16,421
東西路中	460	504	504	504	504	504	. 504	504	504	504	4,996
今 計 (a)	3,031	2.317	2,124	1.873	1,568	2,640	2,394	2.055	1,602	1,813	21,417
\ \ \	_	-		·						•	
导涨名	第1年次	第2年次	第3年次	第4年秋	第5年次	辫6年次	第7年次	第8年次	第9年次	第10年次	4 .
天然林	876	1,168	1,461	1,753	2,045	2,045	2.045	2,045	2.045	2,045	17,528
人工林	873	1,068	1,286	1,430	1,365	1,754	2, 324	2,509	2,472	3,662	13,743
国	873	1.068	1,286	1, 169	1,127	1,754	2,324	1,657	1,896	2,987	16, 141
선 				261	238		***	852	576	675	2.602
合 計(b)	1.749	2.236	2,747	3, 183	3,410	3,799	4,369	4,554	4,517	5.707	36, 271
	_	<u> </u>	_	_	- -	· -	_	_			
を を (p-4)	△ 1,282	4	623	1.310	1.842	1,159	1,975	2, 499	2.915	3,894	14,854

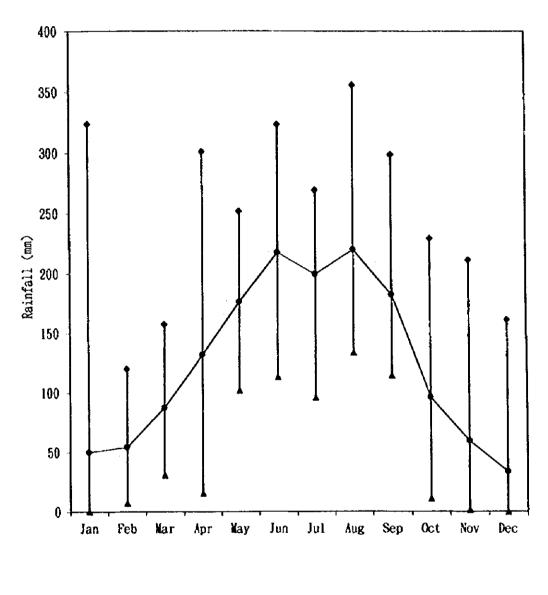




Appendix Fig. 1 スタディエリア内の NFPA 位置図(10 NFPAs)

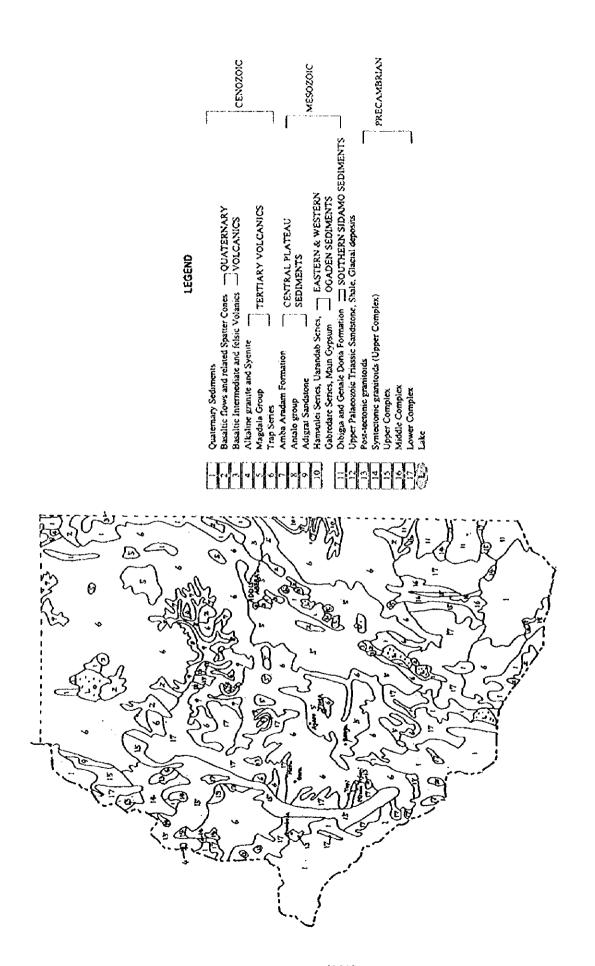


Appendix Fig. 2 月別平均降水量および平均気温

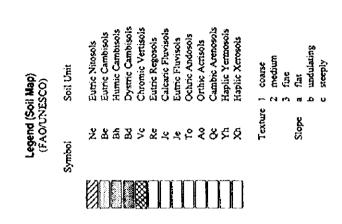


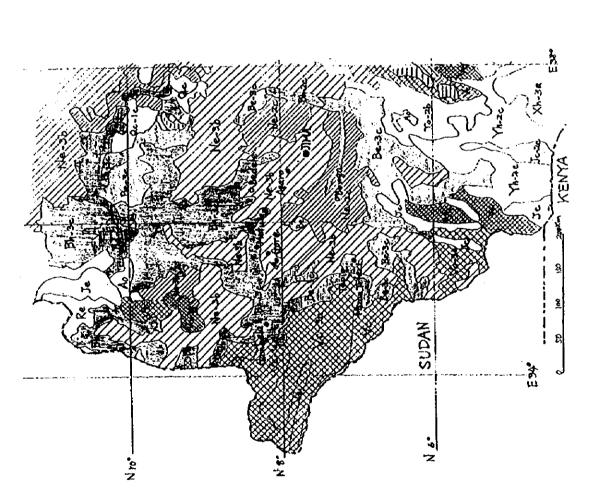
→ Nean (mm) • Maximum ▲ Minimum

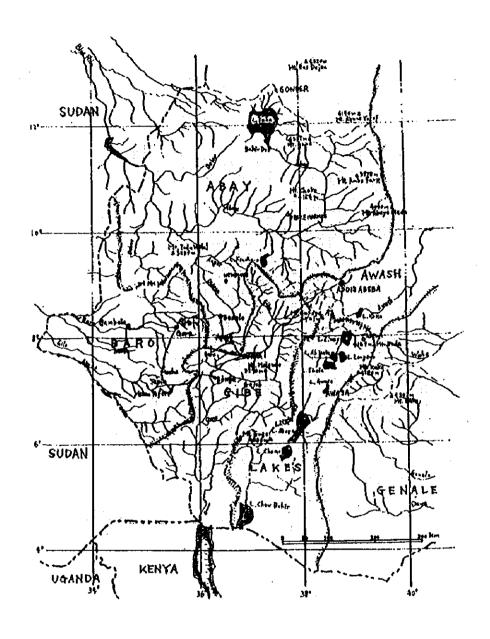
Appendix Fig. 3 ジマにおける月別降水量の変動(1976 - 1995)



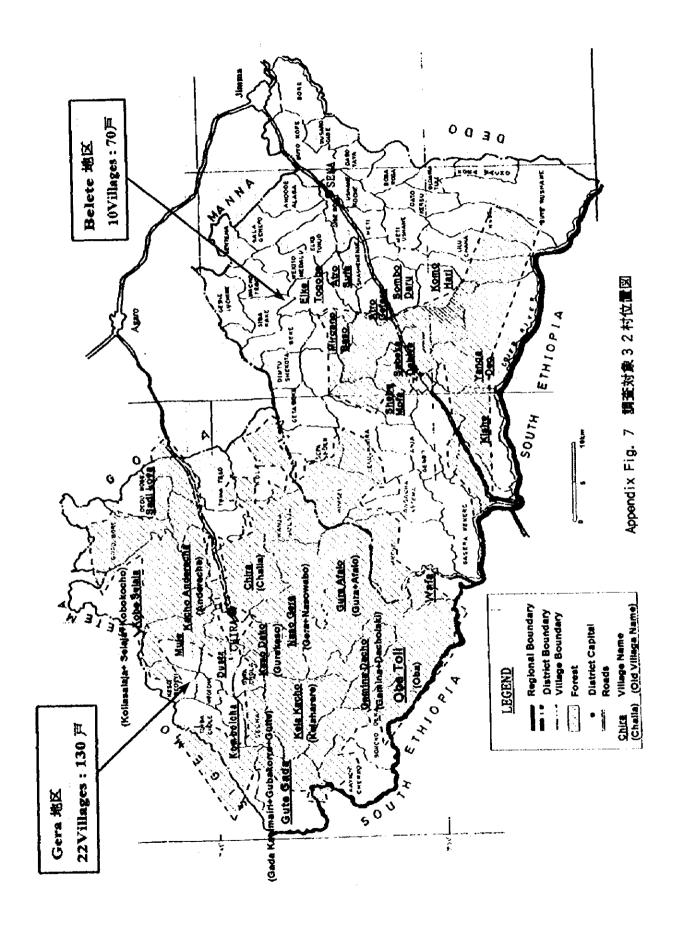
Appendix Fig. 5 エティオピア南西部の土壌







Appendix Fig. 6 エティオピア南西部の水系(South-west Ethiopia)



Soil Profile

									Γ
Profile No.	Location			Date	Weather		Suveyor		
Land form			34	Elevation	Slope	Land use or Vegetation	ation		
Parent Material		Drainage		Moisture Condition		Groundwat	Groundwater table (m)		1
1. Horizon symbol			,	п	В	М	٧	N.	Π
2. Depth of top and bottom of horizon	of horizon		1	1	-		•	1	
3. Boundary of horizon			% •	D 2 0 2 0	p 3 > #	9 C K d	3 c g d	2 C &	v
4. Form of boundary			1 A 8	Q . w s Q	a i w s	s w i b	s w i b		آء
S. Colour	· wet								
•	· dry		bd4 Beede7 B1 64	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4					٦
6. Mottling	- abundance		E C B	a 2	e v	L C TH	f c m	Į o J	P
	· size			r B		, .			v
	contrast		p ,	d P J d	d P	f d	t d p	P	4
	· colour			***************************************					
7. Texture	fine earth		.S 1 S	33	S 1 S	SIS	S 1 S	3 3	ပ
			% 1 ×	1 8	S L Si C	SLSiC	S 1 S C	SLS	U
a	· large particle · Size (cm)	(cm)							
		*			***************************************				٦
8. Structure	· grade		# H	4 H &	2 El *	* E	1 w m s	8	3
	· type		7 C C C C C C C C C C C C C C C C C C C	v pcbspg v	Dc bspg *	D C D & D SC V	DCbspgv	PC DS D #	>
•	· size		E	y E J y	3 E J	t m c	f no c	f B	ؠ
9. Consistence	· wet . stickness	300	Sy S Sz Sz	S S S S S	15 to 5 v5	Sv S Sa Sa		S S	ç
_	- plasticity	notice.	ፈላ ፈ ሜ ሲ።	4× 4 48 41 4	47 49 47	av a de au	Ty da da	٠ مر ما مر	ę,
c ,	· moist		lo, ví, ír, Fi, vF, eF	F 10, vf. ft. Ft. vF. cF	3, 4, ft, ft, ef	b, A, fr. Fi. vF. eF	b, ví, fr. Fi, vf. eF	lo, vf, fr, Fi, vF, eF	9
•	Ą		lo, S, eH, H, vH, eH	H b. S. st. H. vt. et	ю, S, s.Н, Н, v.Н, е.Н	ю, S, sH, H, vH, eH	lo, S, sH, H, vH, cH	10, S, s.H, H, v.H, e.H	딍
10. Others (Outain, Cemerkation, pores pains, Efflorescene, pH, Roots, Humus Dip, Ben. Hardness (mm), etc)	on, pores pans, Efflor en, Hardness (men), e	escene,							

Appendix Fig. 8 (1) 土壤斯面調香業

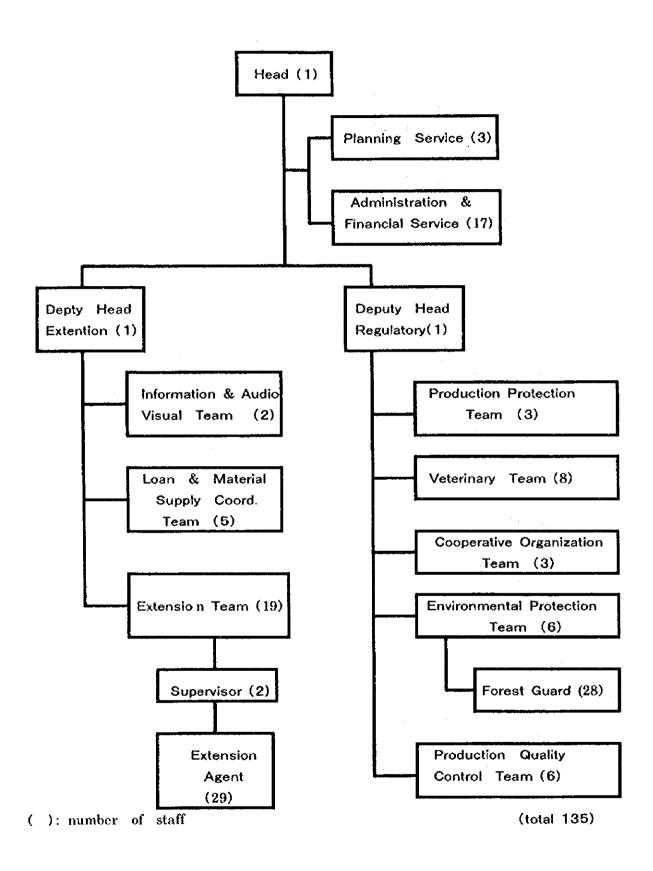
				Location					
	•	•	•	•	•	 •	•	9	

Soil Profile

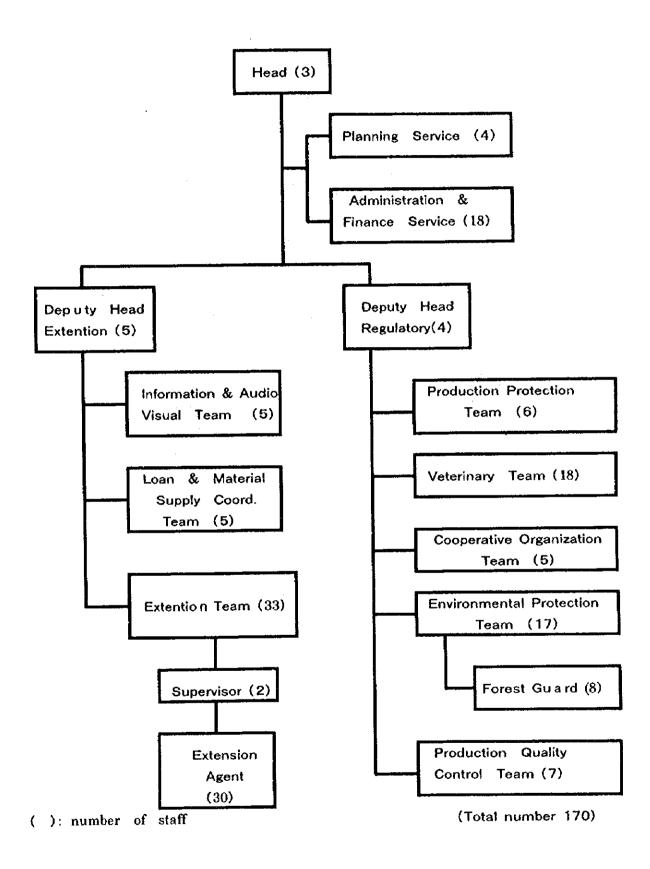
Profile No. 27	rocation Belete		Tugo Milki	Date Jan. 11 - 97	-97 Wester Fine	ine	Surveyor Hiros.	Surveyor Hiroshi TAKATOH Surveyor TESFAYE MULUGETA
Land form	Steeps			Erration 2365m	Store 15-30°		Land use or Vegetation Natural forest	forest
Parent Material	Basalt	Drainage	Well	Moisture Condition	Wet	Groundwi	Groundwater table (m)	
1. Horizon symbol			7 -	п Д≥	日 Bナ,	W Btz	v B+3	Ú
2. Death of too and bottom of horizon	ctom of horizon		2 - 0	J 2	15- 40	OE - 07	70 - 100	~ 001
			9	0 0	9 9	9	, (E) d	D & O
			•	b s 🕒 i b	ء •	•	0	٥
5. Colour	· wet		/c a	77 977	15 9x4 < 18 9x4 < 111 9x4 <	74.47	>+XD.3/	CTR 5/6
	Ė		S/X X/S	318 72		K.3/7/3	X/ X/ ~~	
6. Morting	· abundance		, ,	1 c m	E C III	f c m	e o	9
	- 8126		6	v E	f B c	, E	t s	a J
	· contrast		į d	α P + α	f d D	4 4 4	d p 3	d p J
	· colour							
7. Texture	· fine earth		.S 7 S) IS 7 S)) is 1 s		S 1 S	S 1 S
			SLS	C S T S O	S L Si C	SIC	S L Si C	SLSC
	· large particle • Size (cm)	ze (cm)	J U	Σ Ε~Γ; ς	Z,Z	i.	し、こ	しい
	•	%						(
8. Structure	- spade		€ ③ -	# E	₽ E D		\$ E	* (E)
	adic .		A G A B A G	γ β α Θ α β γ	, x a .) c (Q :) g .	2 C 60 2 G	1 2 2 2 2 4 A
	- size		# (9	Ā	ر آهر پ	(F)	Ē	(3) E
9. Consistence	cys - 12m·	speknese	8 (8) SH		જ જ જ	န လေ လ	જ	S (S) S
	₹,	 plasticity 	\$ ₽ ₽		તું. (a) જે	4 (3) % %	4 (P) 42	\$ P
	· moust		lo, vf. fr. Fi, vF. eF	ef to, vf. fr. Fi. vF. eF	lo, vf. fr. Fi. vF. eF.	lo, vf, fr, Fi, vF, eF	lo, vf. fr. Fi. vF. eF	b, vf. ir, V, vř. er
	ţ		10, S, s.H, H, v.H, e.H	H D. S. SH. H. VH. eH	lo, S, s.H, H, v.H, e.H	lo, S, 4H, H, vH, eH	lo, S, sH, H, vH, eH	. b, S, sH, H, vH, cH
10. Others (Cutana, Cemana, Roots, Humus D.	Others (Cutara, Cementation, porces pans, Efflorracene, pH. Roots, Hurns Dip, Ben, Hardress (mm), etc.)	lorescene, . etc)	Frot-405	Sant - come	Sant - c.	Rut - faut	Root - for (Root - vary fair Root - vary fair	Rat-rayster
					i	25×30	B	setter you
					:	nite Role	Mita Kale	
			Herminers	Handness	Hardwas	Hardness	Hardness 19 mm	Herdness 2/ mon
			Sois Hd	PH 4.87	59% Hd	DH 4.76	X63 Hd	79% Hd

Appendix Fig. 9 (1) 土壤断面間強栗記入例

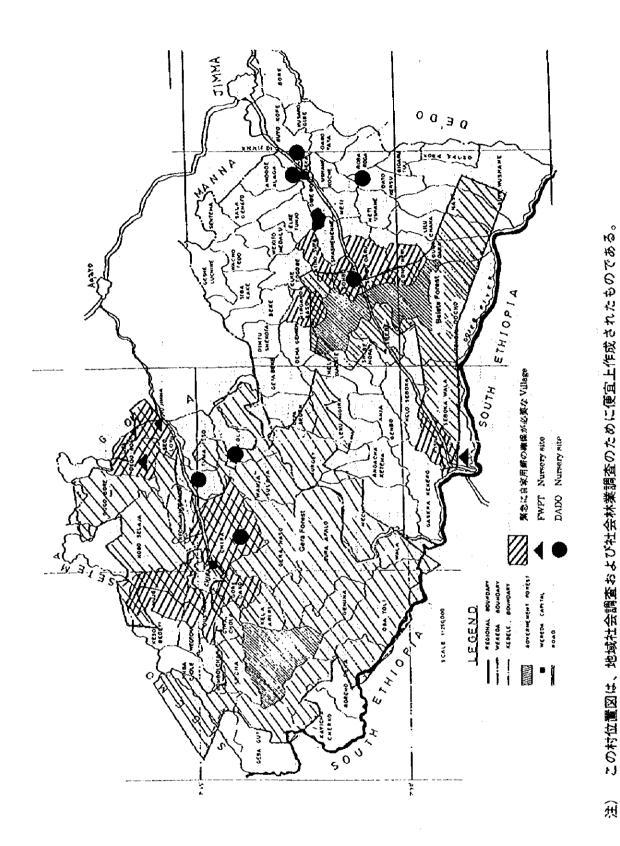
Appendix Fig. 9 (2) 土壤断面調査票記入例



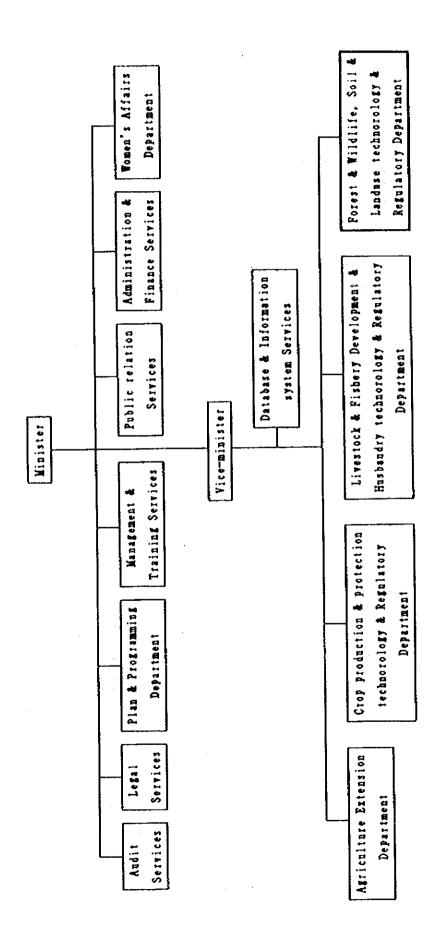
Appendix Fig. 10 セカ チョコルサ DADO の組織図(1997年)



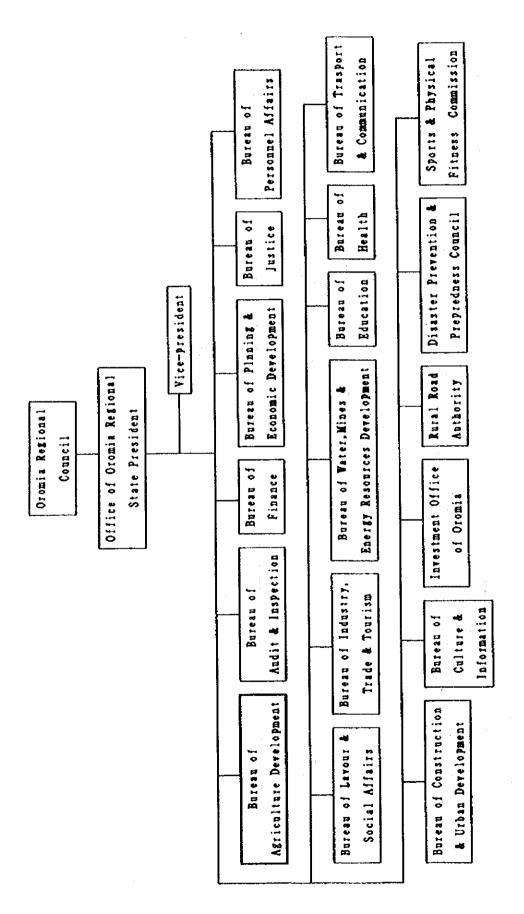
Appendix Fig. 11 ゲラ DADO の組織図 (1997年 予定)



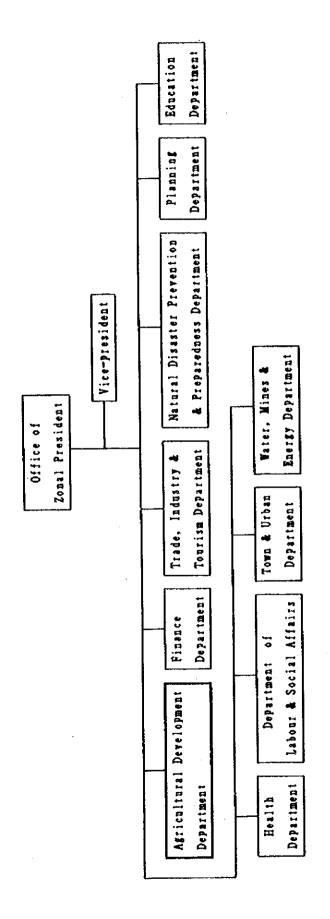
Appendix Fig. 12 緊急に自家用薪の確保が必要な村と苗畑の位置



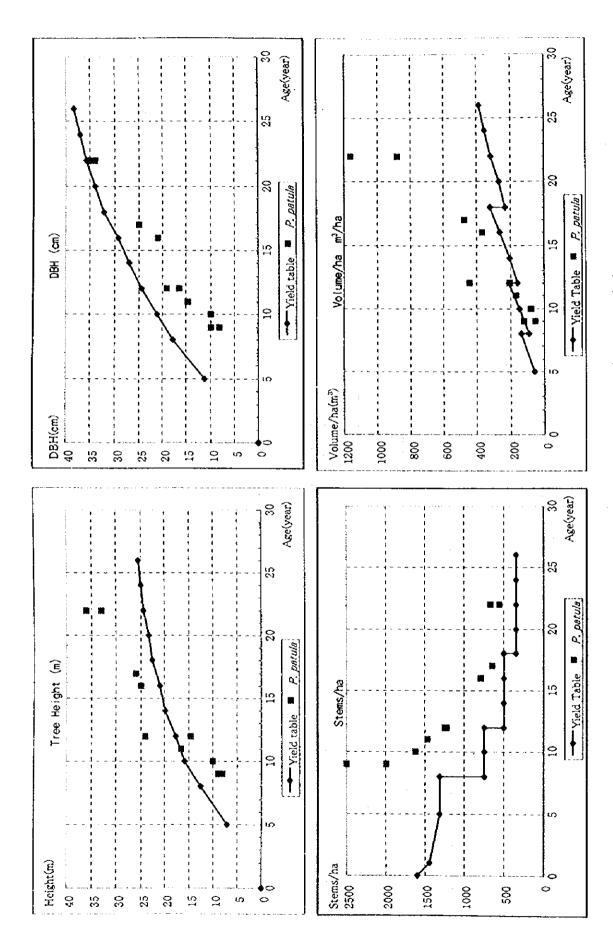
Appendix Fig. 13 MoAの組織図



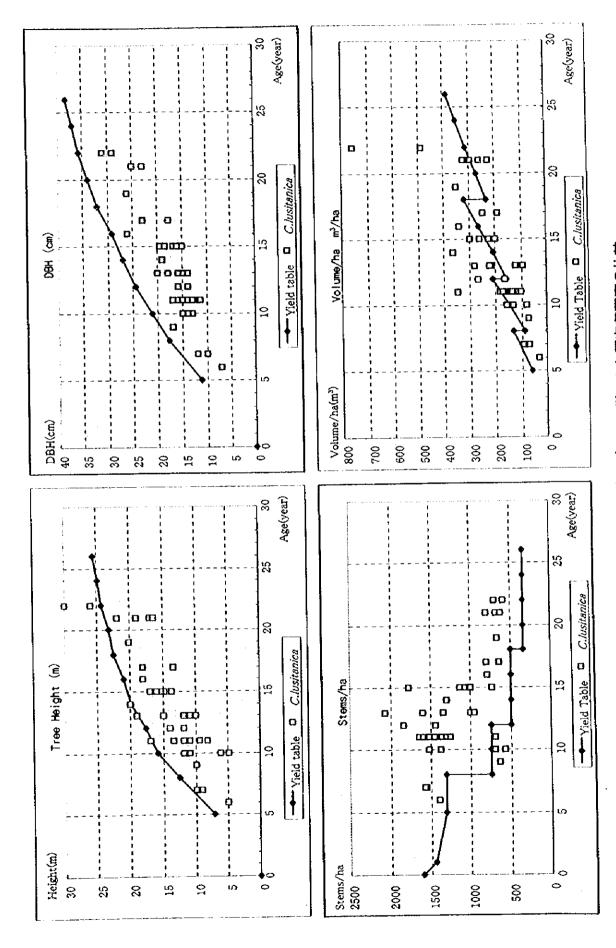
Appendix Fig. 14 オロミア州の行政機構



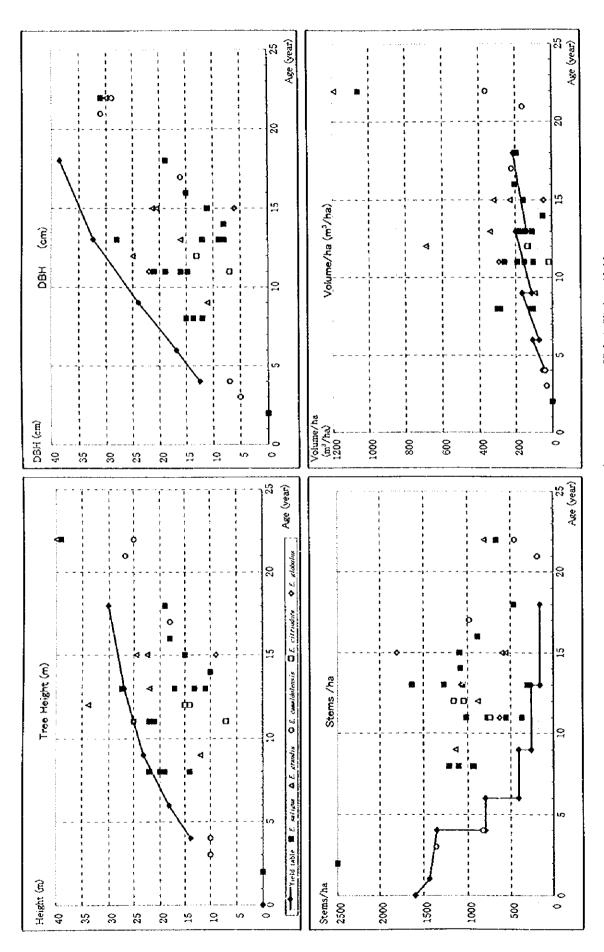
Appendix Fig. 15 オロミア生内ゾーンの作政権権



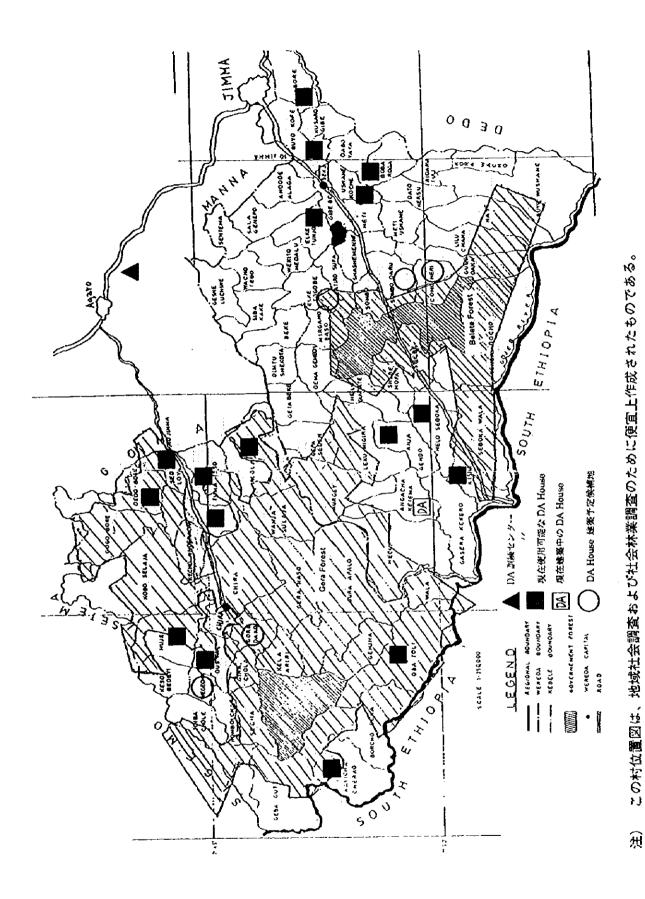
Appendix Fig. 16 Pinus patula人工林のプロットデータと既存収穫表の比較



Appendix Fig. 17 Cupressus Jusitanica 人工林のプロットデータと既存収穫表の比較



Appendix Fig. 18 Eucalyptus spp. 人工林のプロットデータと既存収穫表の比較



Appendix Fig. 19 農業普及員宿舎の位置と建築候補地



