Appendix F-21(1) Cost by operation year (Drainage and Infiltration Works, Damaged Forest)

	Damaged Fo	rest					
	Olt Co	unty	Dolj C	County	Total		
Operation	Operation	Cost	Operation	Cost	Operation	Cost	
year	Area ha	US\$	Area ha	US\$	Area ha	US\$	
3							
4	448.10	2,948	383.13	2,521	831.23	5,469	
5	1,500.00	9,870	1,500.00	9,870	3,000.00	19,740	
6		: .	1,500.00	9,870	1,500.00	9,870	
Total	1,948.10	12,818	3,383.13	22,261	5,331.23	35,079	

Appendix F-21(2) Cost by operation year (Drainage and Infiltration Works, Prevention Forest)

	Prevention Forest								
	Olt C	ounty	Dolj C	ounty	Total				
Operation	Operation	Cost	Operation	Cost	Operation	Cost			
year	Area ha	US\$	Area ha	US\$	Area ha	US\$			
3									
4	722.00	4,751	1,374.80	9,046	2,096.80	13,797			
5	1,051.90	6,922	1,116.90	7,349	2,168.80	14,271			
6			10.						
Total	1,773.90	11,672	2,491.70	16,395	4,265.60	28,068			

Appendix F-22(1) Reforestation Cost per ha. Forest mantle replantation

(Robinia pseudoacacia ,Gladi ,,Elaeag .)

			Labor			Materials			Machinery
Operations	Unit	Quantity	Productivity	Cost/unit	Cost	Quantity	Price	Cost	Contract
			Man/ha	US\$	US\$		US\$	US\$	US\$
Tilling by minibackhoe	ha	0.50	6.7	63.80	31.9	320	0.39	124.8	
Marking terrain planting	1000Point	10.000	10.0	4.21	42.1		4.		
Seedling transport	km	100	10.7	0.45	45.0	20	0.39	7.8	
Preparate seedling store	m	20	0.2	0.04	0.8				
Temporary storage	1000plant	10.000	0.2	0.08	0.8		·		
Planting	1000plant	10.000	33.3	14.03	140.3	. /-			
Robinia pseudoacacia	1000plant					2.500	13.5	33.8	. 1
Gladitschia triacanthos	1000plant					5.000	17.0	85.0	
Elacagunus angustifolia	1000plant			1.6		2.500	17.8	44.5	
Revising plantation	1000plant	0.200	4.1	86.5	17.3				1.5
Hoeing first year (1')	times/Liter	1	7.1	30.50	30.5	37.5	0.51	19.1	
Same (2')	times/Liter	1	5.7	24.40	24.4	30.0	0.51	15.3	
Blanking up (40%)	1000plant	4.000	38.4	40.4	161.6				
Robinia pseudoacacia	1000plant					1.000	13.5	13.5	
Gladitschia triacanthos	1000plant				,	2.000	17.0	34,0	
Elaeagunus angustifolia	1000plant					1.000	17.8	17.8	
Hoeing next year(1')	times/Liter	1	7.1	30.50	30.5	37.5	0.51	19.1	
Hoeing next year(2')	times/Liter	1	5.7	24.40	24.4	30.0	0.51	15.3	
Salvage cutting, Clearing	times	2	51.8	109.00	218.0				
(4th,8th)			TE SERIE	2.1					
Stacking stems (4th,8th)	pils	20	10.3	2.16	43.2				100
				1 1 1					
Subtotal			184.5	<u> </u>	810.8			430	0.0
Insurances quota		1.40		:	1,135.1				
Total	<u> </u>		<u> </u>		1,565.1	L			

Appendix F-22(2)Silvicultural System for Forest Mantle Replantation

For Forest mantle replantation

Plantation of Robinia, Gladi., Elaeag., Crataeg.

Operations	Ages	Ó	1	1	2		4		8	total
Preparation soil		. 1			1			-		
Plantation			1					-		
Revising plantation					1			-		
Hoeing				2	2					
Blanking up					1					
Weed control			111		77	. 14				
Salvage cutting							1		(1)	
Clearing							(1)		1	1.1
Costs	Labor	31.9	229.0	54.9	233.8		130.6		130.6	778.9
Insurances quota	1.40	44.7	320.6	76.9	327.3		182.8		182.8	1,135.1
	Materials	124.8	171.1	34.4	99.7		10.00			305.2
	Machinery		7						1.75	0.0
Total cost	USS	169.5	491.7	111.3	427.0		182.8		182.8	1,565.1

Appendix F-23 Improvement of Forest Roads

Item	Unit	Remarks
Operation Volume Q=10E(11D+8)	m³/h	53.08 E=0.55, D=0.15
(Bulldozer 11t)		
Total length	km	77
Road width	m	2.75
Subbase thickness	m	0.15
Roadbed volume	m ³	31762.5
Total productive machine hour	h	598.4
Productive machine hour by day	h	5.0
Productive machine day	· d	119.7
Unit cost of roadbed	US\$/m ³	6.90 Include transport fee
Rental charge for bulldozer	US\$/d/bull	400 Include labour fee
		 Section 1. A section of the section of
Sub Total(Roadbed)	US\$	219,052
Sub Total(Bulldozer)	US\$	47,871
Total	US\$	266,923

Appendix F-24 Total Cost for General Arboretum

Operations		Unit		Unit Cost	Cost	Note
Planting	Cutting	ha	25.3	90	2,277	
	Stumpage/Soil Preparation	ha	25.3	845	21,379	
	Planting	ha	12	572	6,864	
• • •	Tending	ha	12	1604	19,248	
	Thinning	ha	12	204	2,448	
Sub Total					52,216	
Main paths	Tamping	m²	2,300	1	2,300	
	Roadbed	m ³	460	3.5	1,610	
	Wood fence	Pieces	2,300	1.5	3,450	
Sub Total					7,360	
Branch paths	Tamping	m ²	4,900	1	4,900	
	Wood fence	Pieces	4,900	1.5	7,350	
Sub Total					12,250	
Information board	Digging	Pieces	180		270	
	Board	Pieces	90	50	4,500	
Sub Total					4,770	
Small arbor	Plop	Pieces	8		800	
	Roof	Pieces	8	450	3,600	
Sub Total				-1	4,400	
Car parks	Grading	m ²	8,000	2	16,000	
	Tamping	m ²	8,000	1	8,000	
	Roadbed	m ³	800	3	2,400	
Sub Total					26,400	
Turfed gardens	Turfe	m²	12,000		2,400	
	Fertilizing	kg	180			10years
	Brush cutting	year	30			10years
	Lawn mower		2	300	600	
Sub Total					6,780	
Repair cost					1140	
Total					115,316	

Appendix F-25(1) Total cost for Forestry Work Demonstration Forest

Ocol: Bals [142 B]

1.30 ha Damaged Grade: Moderate Artificial Forest Work

	Unit	Quantity	Cost/Unit	Cost US\$	Note
Cruising	ha	1.30	16.98	22	845×20.1\$/1000=16.98\$
Cutting, Bucking, yarding	m³	60.19	1.99	120	92.6m ³ ×1,3ha×50%=60.19m ³
Silvicultural, Tending	ha	1.30	2,005.40	2,607	Detail: F-25(2)
Drainage and Infiltration Work	ha	0.65	6.58	4	
Information Board	pieces	1	500.00	500	
Total				3,253	

Ocol: Bals [157 E]

2.40 ha Damaged Grade: Moderate Natural forest Work

	Unit	Quantity	Cost/Unit	Cost US\$	Note	
Cruising	ha	2.40	10.98	26	546×20.1\$/1000=10.98\$	The second second
Cutting, Bucking, yarding	m³	28.75	1.99	57	143.76m ³ ×20%=28.75m ³	
Drainage and Infiltration Work	ha	2.40	26.32	63	6.58\$×4=26.32\$	1
Information Board	picces	1	500.00	500		
Total				647		

Ocol: Craiova [145 A-1]

5.10 ha Damaged Grade: Strong Natural forest Work

1		0.10	Duninger Ott		Transfer forces work
	Unit	Quantity	Cost/Unit	Cost US\$	Note
Cruising	ha	5.10	25.01	128	1244×20.1\$/1000=25.01\$
Cutting(Cleaning)	ha	5.10	7.53	38	136.4m ³ ×10%×0.522\$=7.53\$/ha
Drainage and Infiltration Work	ha	5.10	26.32	134	6.58\$×4 =26.32\$
Information Board	pieces	1	500,00	500	
Total				800	

Ocol: Craiova [145 A-2]

4.40 ha Damaged Grade: Strong Artificial Forest Work

	Unit	Quantity	Cost/Unit	Cost US\$	Note
Cruising	ha	2.20	25.01	55	1244×20.1\$/1000=25.01\$
Cutting, Bucking, yarding	m ³	300.08	1.99	597	136,40m ³ ×4,40ha×50%=300.08m ³
Silvicultural, Tending	ha	4.40	1,885.00	8,294	Reforestation Cost F5 moderate
Drainage and Infiltration Work	ha	2.20	6.58	14	
Information Board	pieces	1	500.00	500	
Total				9,461	

Ocol: Craiova [145 A-3]

9.70 ha Damaged Grade: Strong Artificial Forest Work

	Unit	Quantity	Cost/Unit	Cost US\$	Note
Cruising	ha	9.70	25.01	243	1244×20.1\$/1000=25.01\$
Cutting, Bucking, yarding	m³	1323.08	1.99	2,633	136.40m ³ ×9.70ha=1323.08m ³
Silvicultural, Tending	ha	2.50	1,885.00	4,713	Reforestation cost F5 strong
Silvicultural, Tending	ha	2.40	1,871.90	4,493	Reforestation cost F6 strong
Silvicultural, Tending	ha	2.40	1,894.00	4,546	Reforestation cost F7 strong
Silvicultural, Tending	ha	2.40	1,892.50	4,542	Reforestation cost F8 strong
Information Board	pieces	4	500.00	2,000	
Total	1			21,168	

Total(OLT and DOLJ)

Place	Working Method	Arca ha	Direct Cost US\$	Include Indirect Cost US\$
Ocol: Bals [142 B]	Artificial Forest Work	1.30	3,253	3,741
Ocol: Bals [157 E]	Natural forest Work	2,40	647	744
Olt County Total		3.70	3900	4,485
Ocol: Craiova [145 A-1]	Natural forest Work	5.10	800	920
Ocol: Craiova [145 A-2]	Artificial Forest Work	4.40	9,461	10,880
Ocol: Craiova [145 A-3]	Artificial Forest Work	9.70	21,168	24,343
Dolj County Total		19.20	31,429	36,143
Total		22.90	35,329	40,628

Appendix F-25(2) Reforestation Cost per ha.

For Forestry Work Demonstration Forest, Bals (F6) Quercus spp. forest (Q.frainetto, Q.cerris, Others)

			Labor			Materials			Machinery
Operations	Unit	Quantity	Productivity	Cost/unit	Cost	Quantity	Price	Cost	Contract
			Man/ha	US\$	US\$		US\$	US\$	US\$
Tilling by minibackhoe	ha /Liter	0.5	6.7	63.80	31.9	320	0.39	124.8	
Marking terrain planting	1000Point	6.250	6.3	4.21	26.3		· .		
Seedling transport	km/Liter	100	10.7	0.45	45.0	20	0.39	7.8	
Preparate seedling store	m	20	0.2	0.04	0.8				
Temporary storage	1000plant	6.250	0.1	0.08	0.5				
Planting	1000plant	6.250	86.4	58.20	363.8				
Quercus frainetto	1000plant					0.833	20.5	17.1	
Quercus cerris	1000plant					2.917	15.3	44.6	
Pyrus pyraster	1000plant					0.417	20.0	8.3	*******
Others	1000plant				1 11 12	2,083	15.0	31.2	
Mulching (plastic film)	1000plant/km	3.750	7.5	8.42	31.6	2.250	62.0	139.5	
Revising plantation	1000plant	0.094	1.9	86.50	8.1		144		
Cutting seedling stems	1000plant	6.250	2.5	1.69	10.6				
Hoeing first year (1')	times/Liter	1	7.1	30.50	30.5	37.5	0.51	19.1	
Same (2')	times/Liter	1	5.7	24.40	24.4	30.0	0.51	15.3	
Blanking up (5%)	1000plant	0.312	3.0	40.40	12.6	100			
Q.frainetto	1000plant					0.062	20.5	1.3	
Q.cerris	1000plant	100				0.250	15.3	3.8	
Hoeing next year(1')	times/Liter	. 5	35.4	30.50	152.5	187.5	0.51	95.6	
Hoeing next year(2')	times/Liter	5	28.3	24.40	122.0	150.0	0.51	76.5	
Weed control	times	3	11.9	16.70	50.1			1 12 1	
Salvage cutting (7th,10th)	times	2	13.0	27.27	54.5	,			
Marking for clearing	times	2	0.4	0.88	1.8			1.0	
Clearing (15th,20th)	times	2	8.4	17.77	35.5				
Stacking stems	pils	6	2.9	2.02	12.1				a a
Subtotal					1014.6			585	(
Insurances quota		1.40			1420.4				
Total	4.1		1		2005.4		[] <u>-</u>	

Appendix F-26(1) Silvicultural system

For strong damaged stand of Quercus frainetto IV F5

Plantation of O.frainetto

				1 Janua	TOIL OF	թ.յլատ	eno							
Operations	Ages	0	1	1	2	3	4	5_	6	7	10	15	20	total
Soil Preparation		1												
Plantation			1											
Revising plantation					1									
Hoeing				2	2	2	2	2	2					
Weed control		·		1	1	1								
Blanking up					1									
Cutting seedling stems	Ţ				1									
Salvage cutting										1	1			
Clearing (1											1	1	
Costs	Labor		295.8	51.6	96.2	51.6	40.6	40.6	40.6	36.5	36.5	19.8	19.8	729.6
Insurances quota	1.40		414.1	72.2	134.7	72.2	56.8	56.8	56.8	51.1	51.1	27.7	27.7	1,021.4
	Materials		82.5	35.0	51.3	35.0	35.0	35.0	35.0					308.8
	Machinery	554.8												554.8
Total cost	US\$	554.8	496.6	107.2	186.0	107.2	91.8	91.8	91.8	51.1	51.1	27.7	27.7	1,885.0

Appendix F-26(2) Silvicultural system

For moderate damaged stand of Quercus frainetto IV F5

Plantation of O.frainetto

Operations	Ag	cs :	0	1	1	2	3	4	5	6	7	10	15	20	total
Soil preparation			1		:										
Plantation				1											
Revising plantation						1									
Hoeing					2	2	2	2	2	2					
Weed control			100		: 1	1	1								
Blanking up						1						-			
Cutting seedling stems						1								- 77	1.1
Salvage cutting									•		1	1			
Clearing													1	1	
					1.5										
Costs	Labor		31.9	436.4	71.6	140.8	71.6	54.9	54.9	54.9	27.3	27.3	24.7		1,021.0
Insurances quota		1.40	44.7	611.0	100.2	197.1	100.2	76.9	76.9	76.9	38.2	38.2	34.6	34.6	1,429.4
11.00	Materia	als	124.8	124.4	34.4	60.1	34.4	34.4	34.4	34.4					481.3
	Machin	тегу	. 0						1,1						0.0
Total cost		US\$	169.5	735.4	134.6	257.2	134.6	111.3	111.3	111.3	38.2	38.2	34.6	34.6	1,910.7

Appendix F-26(3) Silvicultural system

For strong damaged stand of Quercus frainetti, Q.cerris. III F6

Plantation of Q.frainetto, Q.cerris

the state of the s				E Palita	IOH OL	2 .jrum	· · · · · · · · · · · · · · · · · · ·	Certin						
Operations	Ages	0	1	1	2	3	4	5	6	7	10	15	20	total
Soil preparation		1	·			7.			•					
Plantation			1	4 44										
Revising plantation	. 1. 1				1									
Hoeing				2	- 2	2	2	2	2					
Weed control				1	1	1								
Blanking up					1									
Cutting seedling stems					1									
Salvage cutting										1	1			
Clearing			-									i	1	
	1, 11, 1									100				
Costs	Labor		295.8	51.6	96.2	51.6	40.6	40.6	40.6	36.5	36.5	19.8	19.8	
Insurances quota	1,40		414.1	72.2	134.7	72.2	56.8	56.8	56.8	51.1	51.1	27.7	27.7	1,021.4
American Artist	Materials	-	72.6	35.0	48.1	35.0	35.0	35.0	35.0					295.7
	Machinery	554.8										7	7.	554.8
Total cost	US\$	554.8	486.7	107.2	182.8	107.2	91.8	91.8	91.8	51.1	51.1	27.7	27.7	1,871.9

Appendix F-26(4) Silvicultural system

For moderate damaged stand of Quercus frainetto, Q. cerris. 111 F6

Plantation of Q.frainetto, Q.cerris

Operations	A 222	0		1	2	2.,,,,,,,,	4	6	77		10	16	20	total
	Ages	U					4	3	0		10	15	20	totat
Soil preparation		1								I			•	
Plantation			1											
Revising plantation					1									
Hoeing				2	2	2	2	2	2					
Weed control				i	ì	1								
Blanking up					1									
Cutting seedling stems	1				1									
Salvage cutting										1	1			
Clearing				1.								1	· 1	-
			:										- 19	
Costs	Labor	31.9	436.4	71.6	140.8	71.6	54.9	54.9	54.9	27.3	27.3	24.7	24.7	1,021.0
Insurances quota	1.40	44.7	611.0	100.2	197.1	100.2	76.9	76.9	76.9	38.2	38.2	34.6	34.6	1,429.4
	Materials	124.8	109.1	34.4	54.8	34.4	34.4	34.4	34.4	-				460.7
	Machinery	0												0.0
Total cost	US\$	169.5	720.1	134.6	251.9	134.6	111.3	111.3	111.3	38.2	38.2	34.6	34.6	1,890.1

Appendix F-26(5) Silvicultural system

For strong damaged stand of Quercus spp. 11 F7

Plantation of O.robur, O.petraea, O.cerris

Operations	Ages	0	1 1	1	2	3	4	5	6 1	7 1	10	15	20	total
Soil preparation	11gc3	<u> </u>							<u>`</u> _					iviei
Plantation														
Revising plantation								-						
Hoeing				2	2	2	2	2	2					
Weed control				1	1	1							7.7	
Blanking up	1 1 1 1 1 1		-		1						2.5			
Cutting seedling stems					1				7,					
Salvage cutting		2.9			-					1	1			
Clearing					:							1	1	
			14.											2.3
Costs	Labor		295.8	51.6	96.2	51.6	40.6	40.6	40.6	36.5	36.5	19.8	19.8	729.6
Insurances quota	1.40		414.1	72.2	134.7	72.2	56.8	56.8	56.8	51.1	51.1	27.7	27.7	1,021.4
	Materials		94.3	35.0	48.5	35.0	35.0	35.0	35.0					317.8
	Machinery	554.8												554.8
Total cost	US\$	554.8	508.4	107.2	183.2	107.2	91.8	91.8	91.8	51.1	51.1	27.7	27.7	1,894.0

Appendix F-26(6) Silvicultural system

For moderate damaged stand of Quercus spp. II F7

Plantation of Q.robur, Q.petraea, Q.cerris Operations Soil preparation Ages 10 20 total Plantation Revising plantation Hoeing Weed control Blanking up Cutting seedling stems Salvage cutting Clearing Costs Labor 31.9 436.4 71.6 140.8 71.6 54.9 54.9 54.9 27.3 27.3 24.7 24.7 1,021.0 Insurances quota 1.40 44.7 611.0 100.2 197.1 100.2 76.9 76.9 76.9 38.2 38.2 34.6 1,429.4 Materials 124.8 34.4 55.6 34.4 34.4 34.4 108.2 34.4 460.6 0.0 Total cost

Appendix F-26(7) Silvicultural system

For strong damaged stand of Quercus mixed 1F8
Plantation of Oxobur, Oxotraea, Frazinus excelsion

				Lama		y. room	v.per	, ueu, 1	ratina	s exceis				
Operations	Ages	0	1	1	2	3	4	5	6	7	10	15	20	total
Soil preparation		1]					
Plantation			1								7.			
Revising plantation					ĺ									
Hoeing				2	2	2	2	2	2					
Weed control				1	1	1	.,							
Blanking up					1									
Cutting seedling stems					ì									-
Salvage cutting										1	1			
Clearing									,,_			î	1	
Costs	Labor		295.8	51.6	96.2	51.6	40.6	40.6	40.6	36.5	36.5	19.8	19.8	729.6
Insurances quota	1.40		414.1	72.2	134.7	72.2	56.8	56.8	56.8	51.1	51.1	27.7	27.7	1,021.4
	Materials		93.2	35.0	48.1	35.0	35.0	35.0	35.0					316.3
	Machinery	554.8		<u> </u>										554.8
Total cost	USS	554.8	507.3	107.2	182.8	107.2	91.8	91.8	91.8	51.1	51.1	27.7	27,7	1,892.5

Appendix F-26(8) Silvicultural system

For moderate damaged stand of Quercus mixed IF8 Plantation of Q.robur, Q.petraea, Fraxinus excelsior

the state of the s				r tallia	TOIL OF	Q.room	, 2.pe	racu, 1	THEATTER.	S excels				
Operations	Ages	0	1	1	2	3	4	5	6	7	10	15	20	total
Soil preparation		1												
Plantation			1		9						4.5			
Revising plantation	2				1									
Hoeing				2	2	2	2	2	2		· ·			
Weed control				1	1	1								
Blanking up		_			1									
Cutting seedling stems					1							1		
Salvage cutting										1	1			
Clearing												1	1	1 %
4 - 4 - 4														
Costs	Labor	31.9	436.4	71.6	140.8	71.6	54.9	54.9	54.9	27.3	27.3	24.7		1,020.9
Insurances quota	1.40	44.7	611.0	100.2	197.1	100.2	76.9	76.9	76.9	38.2	38.2	34.6	34.6	1,429.3
	Materials	124.8	107.2	34.4	54.8	34.4	34.4	34.4	34.4					458.8
	Machinery	0											· ·	0.0
Total cost	US\$	169.5	718.2	134.6	251.9	134.6	111.3	111.3	111.3	38.2	38.2	34.6	34.6	1,888.1

Appendix F-26(9) Silvicultural system

For strong damaged stand of Robinia pseudoacacia F9 Str. F10 Str.

Plantation of Robinia pseudoocacia, Gladitschia triacanthos, Elaeagnus angustifolia

Operations	Ages	0	1	1	2		4	8	total
Soil preparation		1							
Plantation	1		1						
Revising plantation				-	1				
Hoeing				2	2	1			
Blanking up					1				
Weed control	43.5								
Salvage cutting	:						- 1	 (1)	
Clearing	4.						(1)	1	
art and a second									
Costs	Labor		358.2	44.1	133.6		65.3	65.3	666.5
Insurances quota	1.40		501.5	61.7	187.0		91.4	91.4	933.1
	Materials		78.2	27.5	55.7	- 1-			161.4
	Machinery	828,1							828.1
Total cost	USS	828.1	579.7	89.2	242.7		91.4	 91.4	1,922.6

Appendix F-26(10) Silvicultural system For moderate damaged stand of Robinia pseudoacacia, Above 20 years F9 Plantation of Robinia pseudoacacia, 50%

Operations	Ages	0	1	1	2	4	 8	total
Soil preparation						,,,,,,	 	
Plantation			1					
Revising plantation					1			
Hoeing				2	2			
Weed control				1				
Blanking up					1			
Cutting seedling stems			Ī		1			
Salvage cutting	T		I			_ 1	 (1)	
Clearing	1					(1)	1	
Costs	Labor		196.8	110.7	189.9	65.3	65.3	628.0
Insurances quota	1.40		275.5	155.0	265.9	91.4	91.4	879.
	Materials		62.9		13.5			76.
	Machinery							
Total cost	US\$		338.4	155.0	279.4	91.4	91.4	955.

Appendix F-26(11) Silvicultural system For moderate damaged stand of Robinia pseudoacacia, under 20 years F10 Plantation of Robinia pseudoacacia, 20%

				Ligilia	TOLL OF A	KODIMIL	e pseuu	Outatio	i, 2070	
Operations	Ages	0	1	1	2		4		8	total
Soil preparation		-								
Plantation			1							
Revising plantation					1					
Hoeing				2	2					
Weed control				1						
Blanking up		100			1					
Cutting seedling stems					1		,			
Salvage cutting	r 1						1		(1)	
Clearing							· (1)		1	
Costs	Labor		99.3	114.6	116.8		65.3		65.3	461.3
Insurances quota	1.40		139.0	160.4	163.5		91.4		91.4	645.8
	Materials	-	42.6		5.4					48.0
	Machinery									0
Total cost	US\$		181.6	160.4	168.9		91.4		91.4	693.8

Appendix F-26(12) Silvicultural system For strong damaged stand of Robinia pseudoacacia F11 Plantation of Q.frainetto, Q.cerris

Operations	Ages	0	1	1	2	3	4	5	6	7	10	15	20	total
Soil preparation		1												
Plantation			1									·		
Revising plantation					1					1	:	- 1	7.5	
Hoeing				- 2	2	2	2	2	2					
Weed control				1	1	1		·			1.0		7.5	- 11
Blanking up	4 4 2			:	1									
Cutting seedling stems					1								5"	1.1.1
Salvage cutting										1	1		1	
Clearing											. 1	1	1	-
:								į					•	
Costs	Labor		295.8	51.6	96.2	51.6	40.6	40.6	40.6	36.5	36,5	19.8	19.8	729.6
Insurances quota	1.40		414.1	72.2	134.7	72.2	56.8	56.8	56.8	51.1	51.1	27.7	27.7	1,021.4
	Materials		76,6	35.0	48.1	35.0	35.0	35.0	35.0	- 1	1.44			299.7
	Machinery	554.8									1			554.8
Total cost	USS	554.8	490.7	107.2	182.8	107.2	91.8	91.8	91.8	51.1	51.1	27.7	27.7	1,875.9

Appendix F-26(13) Silvicultural system For moderate damaged stand of Robinia pseudoacacia F11

				riantat	ton or	z.jraine	eno, Q.	cerris						
Operations	Ages	0	1	1	2	3	4	5	6	7	10	15	20	total
Soil preparation		1												
Plantation			1											
Revising plantation					1									<u> </u>
Hoeing				2	2	2	2	2	2					
Weed control				1	1	1								
Blanking up					1									
Cutting seedling stems					1		-							
Salvage cutting										ī	1			
Clearing												1	1	
Costs	Labor	15.9	218.2	35.8	70.5	35.8	27.5	27.5	27.5	13.6	13.6	12.3	12.3	510.4
Insurances quota	1.40	22.3	305.5	50.1	98.7	50.1	38.4	38.4	38.4	19.1	19.1	17.2	17.2	714.6
	Materials	62.4	58.8	17.2	27.6	17.2	17.2	17.2	17.2					234.8
	Machinery	0												0
Total cost	US\$	84.7	364.3	67.3	126.3	67.3	55.6	55.6	55.6	19.1	19.1	17.2	17.2	949.4

Appendix F-26(14) Silvicultural system For strong damaged stand of *Populus* spp. F13 Plantation of *Q. robur, Fraxinus excelsior, Tilia platyphillos*

Operations	Ages	0	1	1	2	3	4	5	6	7	10	15	20	total
Soil preparation		1							1					
Plantation			1		1.									
Revising plantation					1									
Hoeing			1	2	2	2	2	2	2					
Weed control				1	1	1								
Blanking up					1									
Cutting seedling stems					1									
Salvage cutting										1	1			
Clearing									: 1			1	1	100
4.00			1			,								
Costs	Labor		462.4	92.2	166.1	92.2	58.7	58.7	58.7	54.6	54.6	30.7	30.7	1,159.6
Insurances quota	1.40	87	647.4	129.1	232.5	129.1	82.2	82.2	82.2	76.4	76.4	43.0	43.0	1,623.4
e factoriale for the second	Materials		114.9	36.7	58.8	36.7	36.7	36.7	36.7					357.2
	Machinery	828.1												828.1
Total cost	US\$	828.1	762.3	165.8	291.3	165.8	118.9	118.9	118.9	76.4	76.4	43.0	43.0	2,808.7

Appendix F-26(15) Silvicultural system For moderate damaged stand of *Populus* spp. F13 Plantation of *Populus alba*

Operations	Ages	0	1	1	2	3	4		7	total
Soil preparation		1								
Plantation	1		1		-					
Revising plantation				1				-		
Hoeing				2	2	2				
Cutting buds		250		1	1					
Blanking up				-	. 1					
Weed control	1.1				7	1	1			
Pruning	4 6 1 7 4		10.00						1	1.5
Costs	Labor		44.0	75.6	72.2	58.7	33.5		41.1	325.1
Insurances quota	1.40	177	61.6	105.8	101.1	82.2	46.9		57.5	455.1
	Materials		155.0	36.7	67.3	36.7				295.7
	Machinery	828.1								828.1
Total cost	US\$	828.1	216.6	142.5	168.4	118.9	46.9		57.5	1,578.9

			Labor			Materials			Machinery
Operations	Unit	Quantity	Productivity	Cost/unit	Cost	Quantity	Price	Cost	Contract
			Man/ha	US\$	US\$		US\$	US\$	US\$
Stumpage removal	ha	0.67		760.5					509.5
Stumpage gathering	ha	0.67		inc.a					
Soil preparation	ha	0.67		inc.a					
Scarifying	ha	0.67		inc.a				-	
Ploughing	ha	0.67		45.1	:				30.2
Disk harrowing	ha	0.67		22.5					15.1
Marking terrain planting	1000Point	4.002	4.0	4.21	16.8	•			
Seedling transport	km/Liter	100	10.7	0.45	45.0	20	0.39	7.8	
Preparate seedling store	m	20	0.2	0.039	0.8				
Temporary storage	1000plant	4.002	0.1	0.077	0.3				
Planting	1000plant	4.002	55.3	58.2	232.9				
Quercus frainetto	1000plant					2.668	20.5	54.7	
Others	1000plant					1.334	15.0	20.0	
Revising plantation	1000plant	0.060	1.2	86.5	5.2	· · · · · ·		8.33	
Culting seedling stems	1000plant	4.002	1.6	1.69	6.8	3.45			
Hoeing first year (1')	times/Liter	1	5.3	22.56	22.6	38.1	0.51	19.4	
Same (2')	times/Liter	1	4.3	18.04	18.0	30.5	0.51	15,6	
Blanking up (20%)	1000plant	0.800	7.7	40.4	32.3				
Q.frainetto	1000plant		7.			0.800	20.5	16.4	
Hoeing next year(1)	times/Liter	5	26.6	22.56	112.8	190.5	0.51	97.2	
Hoeing next year(2')	times/Liter	5		18.04	90.2	152.5	0.51	77.8	
Weed control	times	3	7.9	11.05	33.2			3 M 34	1
Salvage cutting (7th, 10th)	times	2	17.4	36.53	73.1				
Marking for clearing	times	2		0.63	1.3		I		
Clearing (15th, 20th)	times	2	6.0	12.7	25.4				
Stacking stems	pils	6	3,1	2.16	13.0		l		
						1			
Subtotal		7 7 34		1 1	729.6			308.8	554.8
Insurances quota		1.40)		1021.4				
Total				8 88 8	1835.0			· · · · · · · · · · · · · · · · · · ·	

Appendix F-27(2) Reforestation Cost per ha.

For Moderate Damaged Stand IV F5 Quercus spp.forest (Q.frainetto)

			Labor		*	Materials	4.1		Machiner
Operations	Unit	Quantity	Productivity	Cost/unit	Cost	Quantity	Price	Cost	Contract
		10.00	Man/ha	US\$	US\$		US\$	US\$	US\$
Tilling by minibackhoe	ha/Liter	0.5	6.7	63,8	31.9	320	0.39	124.8	
Marking terrain planting	1000Point	6,250	6.3	4.21	26.3				
Seedling transport	km/Liter	100	10.7	0.45	45.0	20	0.39	7.8	
Preparate seedling store	· m	20	0.2	0.039	0.8		1 1 1 1		
Temporary storage	1000plant	6.250	0.1	0.077	0.5				
Planting	1000 plant	6.250	86.4	58.2	363.8		1.1		
Quercus frainetto	1000plant	11.				4.167	20.5	85.4	
Others	1000plant					2.083	15.0	31.2	
Revising plantation	1000plant	0.094	1.9	86.5	8,1				
Cutting seedling stems	1000plant	6,250	2.5	1.69	10.6				
Hoeing first year (1')	times/Liter	1	7.1	30.5	30.5	37,5	0.51	19.1	
Same (2)	times/Liter	1	5.7	24.4	24.4	30	0.51	15.3	
Blanking up (20%)	1000plant	1.250	12.0	40.4	50.5			144 1	
Q.frainetto	1000plant					1.250	20.5	25.6	
Hoding next year(1')	times/Liter	5	35.4	30.5	152.5	187.5	0.51	95,6	
Hoeing next year(2')	times/Liter	5	28.3	24.4	122.0	150	0.51	76.5	
Weed control	times	3	11.9	16.7	50.1				
Salvage cutting (7th, 10th)	times	2	13.0	27.27	54.5				
Marking for clearing	times	2	0.4	0.88	1.8			1.7	
Clearing (15th, 20th)	times	2	8.4	17,77	35.5				
Stacking stems	pils	6	2.9	2.02	12.1	1777			
	1. 1. 1.				1111				
Subtotal	T				1,020.9		/	481.4	
Insurances quota		1.40)	8 297	1,429.2	72.0			
Total	1				1,910.7	[

Appendix F-27(3) Reforestation Cost per ha.

· ·			Labor			Materials			Machinery
Operations	Unit	Quantity	Productivity	Cost/unit	Cost	Quantity	Price	Cost	Contract
			Man/ha	US\$	US\$		US\$	US\$	US\$
Stumpage removal	ha	0.67		760.5					509.5
Stumpage gathering	ha	0.67		inc.a			,		
Soil preparation	ha	0.67		inc.a					
Scarifying	ha	0.67		inc.a					
Ploughing	ha	0.67		45.1					30.2
Disk harrowing	ha	0.67		22.5					15.1
Marking terrain planting	1000Point	4.002	4.0	4.21	16.8				
Seedling transport	km	100	10,7	0,45	45.0	20	0.39	7.8	
Preparate seedling store	m	- 20	0.2	0.039	0.8				
Temporary storage	1000plant	4.002	0.1	0.077	0.3			· · · · · ·	
Planting	1000plant	4.002	55.3	58.2	232.9		~~~~		
Quercus frainetto	1000plant					0.534	20.5	10.9	
Quercus cerris	1000plant		11			1.867	15.3	28.6	
Pyrus pyraster	1000plant					0.267	20.0	5.3	
Others	1000plant					1.334	15.0	20.0	
Revising plantation	1000plant	0.060	1.2	86.5	5.2				
Cutting seedling stems	1000plant	4.002	1.6	1.69	6.8				1
Hoeing first year (1)	times/Liter	1	5.3	22.56	22.6	38.1	0.51	19.4	
Same (2')	times/Liter	1	4.3	18.04	18.0	30.5	0.51	15.6	
Blanking up (20%)	1000plant	0.800	7.7	40.4	32.3	1			
Q frainetto	1000plant					0.160	20.5	3.3	
Q.cerris	1000plant	1.0			3.75	0.640	15.3	9.8	
Hoeing next year(1')	times/Liter				112.8	190.5	0.51	97.2	
Hoeing next year(2')	times/later				90.2	152.5	0.51	77.8	
Weed control	times	3		11.05	33.2			·	
Salvage cutting (7th, 10th)	times	2		36.53	73.1				
Marking for clearing	times	2	0.3		1.3				
Clearing (15th, 20th)	times	2			25.4	1			
Stacking stems	pils	6	3.1	2.16	13.0				
Subtotal			ļ		729.6			295.7	554.8
Insurances quota		1,40	 		1,021.4				
Total		<u> </u>	<u> </u>	<u> </u>	1,871.9]			<u></u>

Appendix F-27(4) Reforestation Cost per ha.

For Moderate Damaged Stand III F6
Quercus spp.forest (Q.frainetto, Q.cerris, Others)

			Labor			Materials			Machiner
Operations	Unit	Quantity	Productivity	Cost/unit	Cost	Quantity	Price	Cost	Contract
			Man/ha	US\$	US\$		US\$	US\$	US\$
Tilling by minibackhoe	ha/Liter	0.5	6.7	63.80	31.9	320	0.39	124.8	
Marking terrain planting	1000Point	6.250	6.3	4.21	26.3				
Seedling transport	km/Liter	100	10.7	0.45	45.0	20	0.39	7.8	
Preparate seedling store	m	20	0.2	0.04	0.8				
Temporary storage	1000plant	6,250	0.1	0.08	0.5				
Planting	1000plant	6.250	86.4	58.20	363.8				
Quercus frainello	1000plant			Γ		0.833	20.5	17.1	
Quercus cerris	1000plant		l			2.917	15,3	44.6	
Pyrus pyraster	1000plant		. 1			0.417	20.0	8.3	
Others	1000plant					2.083	15.0	31.2	
Revising plantation	1000plant	0.094	1.9	86.50	8.1			1	
Cutting seedling stems	1000plant	6.250	2.5	1.69	10.6				
Hoeing first year (1)	times/Liter	45.1	7.1	30.50	30.5	37.5	0.51	19.1	
Same (2')	times/Liter	. 1	5.7	24.40	24.4	30.0	0.51	15.3	
Blanking up (20%)	1000plant	1.250	12.0	40.40	50.5		i		7
Q.frainetto	1000plant					0.250	20.5	5.1	
Q.cerris	1000plant					1.000	15.3	15.3	
Hoeing next year(1')	times/Liter	5	35.4	30.50	152.5	187.5	0.51	95.6	3.5
Hoeing next year(2)	times/Liter	5	28.3	24.40	122.0	150.0	0.51	76.5	
Weed control	times	3	11.9	16.70	50.1				
Salvage cutting (7th, 10th)	times	2	13.0	27.27	54.5			:	
Marking for clearing	times	2	0.4	0.88	1.8				
Clearing (15th,20th)	times	2	8.4	17.77	35.5				
Stacking stems	pils	6	2.9	2.02	12.1				
	1		```			1			<u> </u>
Subtotal	-				1,020.9		: 1	460.9	
Insurances quota		1.40		1	1,429.2				
Total	!		1		1,890.1				

Appendix F-27(5) Reforestation Cost per ha.

•			Labor	~~~~		Materials			Machinery
Operations	Unit	Quantity	Productivity	Cost/unit	Cost	Quantity	Price	Cost	Contract
]		Man/ha	US\$	US\$		US\$	US\$	US\$
Stumpage removal	ha	0.67		760.5				1	509,5
Stumpage gathering	ha	0.67		inc.a					
Soil preparation	ha	0.67	1,1	inc.a					
Scarifying	ha	0.67		inc.a					
Ploughing	ha	0.67		45.1					30.2
Disk harrowing	ha	0.67		22.5					15.1
Marking terrain planting	1000Point	4.002	4.0	4.21	16.8				
Seedling transport	km	100	10.7	0.45	45.0	20	0.39	7.8	
Preparate seedling store	m	20	0.2	0.039	0.8				
Temporary storage	1000plant	4.002	0.1	0.077	0.3				1
Planting	1000plant	4.002	55.3	58.2	232.9				
Quercus robur	1000plant					2.401	17.0	40.8	1
Quercus petraea, etc	1000plant					0.801	16.8	13.5	
Quercus cerris	1000plant		:	31 T		0.800	15.3	12.2	
Others	1000plant					1.334	15.0	20.0	1
Revising plantation	1000plant	0.060	1.2	86.5	5.2				1
Cutting seedling stems	1000plant	4.002	1.6	1.69	6.8				
Hoeing first year (1')	times/Liter	1	5.3	22.56	22.6	38.1	0.51	19.4	
Same (2)	times/Liter	1	4.3	18.04	18.0	30.5	0.51	15,6	
Blanking up (20%)	1000plant	0.800	7.7	40.4	32.3				
Quercus robur	1000plant					0.480	17.0	8.2	
Quercus petraea, etc	1000plant					0.320	16.8	5.4	
Hoeing next year(1')	times/Liter	5	26.6	22.56	112.8	190.5	0.51	97.2	
Hoeing next year(2)	times/Liter			18.04	90.2	152.5	0.51	77.8	
Weed control	times	3	7.9	11.05	33.2				
Salvage cutting (7th, 10th)	times	2	17.4	36,53	73,1				
Marking for clearing	times	2		0.63	1.3				
Clearing (15th, 20th)	times	2		12.7	25.4	.			
Stacking stems	pils	6	3.1	2.16	13.0				
Subtotal		- 1 · 1			729.6			317.8	554.8
Insurances quota	1 :	1.40			1,021.4				
Total		1	T		1,894.0				

Appendix F-27(6) Reforestation Cost per ha.

For Moderate Damaged Stand Il F7 Quercus spp. forest (Q.robur, Others)

			Labor	· · · · · · · · · · · · · · · · · · ·		Materials			Machinery
Operations	Unit	Quantity	Productivity	Cost/unit	Cost	Quantity	Price	Cost	Contract
			Man/ha	US\$	US\$		US\$	US\$	US\$
Tilling by minibackhoe	ha/Liter	0.5	6.7	63.80	31.9	320	0.39	124.8	
Marking terrain planting	1000Point	6.250	6.3	4.21	26.3				
Seedling transport	km/Liter	100	10.7	0.45	45.0	20	0.39	7.8	16.6
Preparate seedling store	III	20	0.2	0.04	0.8				
Temporary storage	1000 plant	6.250	0.1	0.08	0.5				
Planting	1000plant	6.250	86.4	58.20	. 363,8				
Quercus robur	1000plant					2.500	17.0	42.5	
Quercus petraea, etc	1000plant	1.5			1	0.834	16.8	14.0	1.5
Quercus cerris	1000plant			5 35 5		0,833	15.3	12.7	100
Others	1000plant					2.083	. 15.0	31.2	
Revising plantation	1000plant	0.094	1.9	86.50	8.1				
Cutting seedling stems	1000plant	6.250	2.5	1.69	10,6				
Hoeing first year (1')	times/Liter	1	7.1	30.50	30.5	37.5	0.51	19.1	
Same (2)	times/Liter	1	5.7	24.40	24.4	30.0	0.51	15.3	1 100
Blanking up (20%)	1000plant	1.250	12.0	40.40	50.5			100	
Quercus robur	1000plant					0.750	17.0	12.8	
Quercus petraea, etc	1000plant					0.500	16.8	8.4	5 5 77
Hoeing next year(1)	times/Liter	5	35.4	30.50	152.5	187.5	0.51	95.6	
Hoeing next year(2')	times/Liter	5	28.3	24.40	122.0	150.0	0.51	76.5	1
Weed control	times	3	11.9	16.70	50,1			100	50 (45.5)
Salvage cutting (7th, 10th)	times	2	13.0	27.27	54.5		1		
Marking for clearing	times	2	0.4	0.88	1.8			100	
Clearing (15th, 20th)	times	2	8.4	17.77	35.5		,	1.7%	
Stacking stems	pils	6	2.9	2.02	12.1				
	,				14.15				
Subtotal			T		1,020.9			460,8	1 - 1
Insurances quota		1,40			1,429.2		1 1		
Total					1,890.0				

Appendix F-27(7) Reforestation Cost per ha.

			Labor			Materials			Machinery
Operations	Unit	Quantity	Productivity	Cost/unit	Cost	Quantity	Price	Cost	Contract
			Man/ha	US\$	US\$		US\$	US\$	USS
Stumpage removal	ha	0.67		760.5					509.5
Stumpage gathering	ha	0.67		inc.a					
Soil preparation	ha	0.67		inc.a					
Scarifying	ha	0.67		inc.a					
Ploughing	ha	0.67		45.1					30.2
Disk harrowing	ha	0.67		22.5					15.1
Marking terrain planting	1000Point	4.002	4.0	4.21	16.8				
Seedling transport	km	100	10.7	0.45	45.0	20	0.39	7.8	
Preparate seedling store	m	20	0.2	0.039	0.8			·	
Temporary storage	1000plant	4,002	0,1	0.077	0.3				
Planting	1000plant	4.002	55.3	58.2	232.9				
Quercus robur	1000plant					2.001	17.0	34.0	
Q.petraea, Q.peduncliflora	1000plant					0.800	16.8	13.4	
Fraxinus excelsior	1000plant	7.7	11,1			1.201	15.0	18.0	
Others	1000plant	·-··		7		1.334	15.0	20.0	
Revising plantation	1000plant	0.060	1.2	86.5	5.2	·			
Cutting seedling stems	1000plant	4.002	1.6	1.69	6.8				
Hoeing first year (1')	times/Liter		5.3	22,56	22.6	38.1	0.51	19.4	
Same (2)	times/Liter		4.3	18.04	18.0		0.51	15.6	†
Blanking up (20%)	1000plant	0.800	7.7	40.4	32.3				f
Quercus robur	1000plant				1	0.400	17.0	6.8	<u> </u>
Q.petraea, Q.peduncliflora	1000plant					0.160	16.8	2.7	· · · · · · · · · · · · · · · · · · ·
Fraxinus excelsior	1000plant				· .	0.240	15.0	3.6	
Hoeing next year(1')	times/Liter	5	26.6	22,56	112.8		0.51	97.2	
Hoeing next year(2')	times/Liter	5		18.04	90.2	152.5	0,51	77.8	
Weed control	times	3	7.9	11.05	33.2				
Salvage cutting (7th, 10th)	times	2		36.53	73.1	 			† · · · · · · · · · · · · · · · · · · ·
Marking for clearing	times	2		0.63	1.3				
Clearing (15th, 20th)	times	2	<u> </u>	12.7	25.4				
Stacking stems	pils	6	3.1	2.16	13.0				
Subtotal			1		729.6			316.3	554.8
Insurances quota	†	1.40	1		1,021.4				†
Total	4.5			 	1,892.5				i .

Appendix F-27(8) Reforestation Cost per ha.

For Moderate Damaged Stand 1 F8

Quercus spp. mixed forest (Q.robur Fraxinus excelsior Others)

Oti	1 17	O15	Labor	Cost/unit	Cost	Materials	Price	Cost	Machiner Contract
Operations	Unit	Quantity	Productivity			Quantity			
			Man/ha	US\$	ÚS\$	222	US\$	US\$	USS
Filling by minibackhoe	ha/Liter	0.5	6.7	63.80	31.9	320	0.39	124.8	
Marking terrain planting	1000Point	6.250	6.3	4.21	26.3		0.00		
Seedling transport	km/Liter	100	10.7	0.45	45.0	20	0.39	7.8	
Preparate seedling store	m	20	0.2	0.04	0.8				
Temporary storage	1000plant	6.250		0.08	0.5				
Planting	1000plant	6.250	86.4	58.20	363.8				
Quercus robur	1000plant			S		2.083	17.0	35.4	
Q.petraea, Q.peduncliflora	1000plant					0.834	16.8	14.0	
Fraxinus excelsior	1000plant			7.11		1.250	15.0	18.8	4
Others	1000plant					2.083	15.0	31.2	<u> </u>
Revising plantation	1000plant	0.094	1.9	86.50	8.1		1.1		
Cutting seedling stems	1000plant	6,250	2.5	1.69	10.6				
Hoeing first year (1')	times/Liter	1	7.1	30.50	30.5	37.5	0.51	19.1	
Same (2)	times/Liter	1	5.7	24.40	24.4	30.0	0.51	15.3	
Blanking up (20%)	1000plant	1.250	12.0	40.40	50.5				
Quercus robur	1000plant					0,625	17.0	10.6	
Q.petraea, Q.peduncliflora	1000plant	1.000	9.9			0.250	16.8	4.2	
Fraxinus excelsior	10.00	1 112	1221			0.375	15.0	5.6	
Hoeing next year(1')	times/Liter	5	35.4	30.50	152.5	187.5	0.51	95.6	
Hoeing next year(2)	times/Liter	5	28.3	24.40	122.0	150.0	0.51	76.5	
Weed control	times	3	11.9	16.70	50.1				
Salvage cutting (7th, 10th)	times	2	13.0	27.27	54.5				
Marking for clearing	times	2	0.4	0.88	1.8	<u> </u>			
Clearing (15th,20th)	times	2	8.4	17.77	35.5				
Stacking stems	pils	6	2.9	2.02	12.1				
Subtotal	1				1,020.9			459.0	
Insurances quota	T	1.40			1.429.2				
Total	 		1		1,888.2	1			

Robinia pseudoucacia Axest (R pseudoucacia Gladuschia Viacanthos "Elocognus angustifolia")

			Labor			Materials			Machinery
Operations	Unit	Quantity	Productivity	Cost/unit	Cost	Quantity	Price	Cost	Contract
			Man/ha	US\$	US\$		US\$	US\$	US\$
Stumpage removal	ha	1.00		436,3					436.3
Stumpage gathering	ha	1.00		124.7					124.7
Soil preparation	ha	1.00		74.8					74.8
Scarifying	ha	1.00		124.7					124.7
Ploughing	ha .	1.00		45.1				1	45,1
Disk harrowing	ha	1.00		22.5					22.5
Marking terrain planting	1000Point	5.000	5.0	4.21	21.1				
Seedling transport	km	100	10.7	0.45	45.0	20	0.39	7.8	
Preparate seedling store	m	10	0.1	0.039	0.4				
Temporary storage	1000plant	5.000	0.1	0.077	0.4				1 - 1 - 1
Planting	1000plant	5.000	69.2	58.25	291.3	1.5	1		
Robinia pseudoacacia	1000plant			1		4.250	13,5	57.4	
Gladitschia triacanthos	1000plant					0.500	17.0	8.5	
Elacagunus angustifolia	1000plant		I			0.250	17.8	4.5	
Revising plantation	1000plant	0.100	2.1	86.5	8.7			1.5	
Hoeing first year (1')	times/Liter	1	5.7	24.46	24.5	30.0	0.51	15.3	
Same (2)	times/Liter	ī	4.5	19.57	19.6	24.0	0.51	12.2	
Blanking up (40%)	1000plant	2.000	19.2	40.4	80.8		1 V 4 E		
Robinia pseudoacacia	1000plant]	1	1		1.700	13.5	23.0	
Gladitschia triacanthos	1000plant					0.200	17.0	3.4	
Elaeagunus angustifolia	1000plant	l				0.100	17.8	1.8	
Hoeing next year(1')	times/Liter	1	5.7	24.46	24.5	30.0	0.51	15.3	
Hocing next year(2)	times/Liter	1	4.5	19.57	19.6	24.0	0.51	12.2	
Salvage cutting, Clearing	times	2	25.9	54.50	109.0	1 1		7	
(4th,8th)				1		I			1
Stacking stems (4th,8th)	pils	10	5.1	2.16	21.6				
Subtotal		ļ	157.7	 	666.2	ļ	ļ ———	161.3	828.1
Insurances quota		1.40	<u> </u>	ļ	932.7		l	101.	020.1
Total		1.4		 	1,922.1				
IOIGI		L	1	<u> </u>	1,744.1		L		1 1 1 1

Appendix F-27(10) Reforestation Cost per ha.

For moderate damaged stand of Robinia F9

Robinia pseudoacacia forest (R.pseudoacacia planting 50%)

				 			 		
	150		Labor	<u> </u>		Materials	- Fall - 111		Machinery
Operations	Unit	Quantity	Productivity	Cost/unit	Cost	Quantity	Price	Cost	Contract
		11.	Man/ha	US\$	US\$		USS	US\$	USS
Marking terrain planting	1000Point	2.500	2.5	4.21	10.5	8.0			
Seedling transport	km	100	8.1	0.34	34.0	20	0.39	7.8	
Preparate seedling store	តា	5	0.1	0.052	0.3				
Temporary storage	1000plant	2.500	0.1	0.103	0.3			100	
Planting	1000plant	2.500	36.0	60.69	151.7	41.7	0.51	21.3	
Robinia pseudoacacia	1000plant			4 4		2.500	13.5	33.8	
Revising plantation	1000plant	0.050	1.0	86.5	4.3				
Hoeing first year (1')	times	1	10.0	42.00	42.0		7	7.7	
Same (2)	limes	1	8.4	35.20	35.2			1 1 1 t	
Weed control	times	1	8.0	33.47	: 33.5	15.			
Blanking up (40%)	1000plant	1.000	9.6	40.4	40.4	1		2	
Robinia pseudoacacia	1000plant		T			1.000	13.5	13.5	
Cutting seedling stems	times	1	16.2	68.03	68.0			· · · · · · · · · · · · · · · · · · ·	
Hoeing first year (1')	times	1	10.0	42,00	42.0				
Same (2)	times	i	8.4	35.20	35,2				
Salvage cutting, Clearing	times	2	25.9	54.50	109.0				
(4th,8th)	1	1 2 2 2	1 -11					1 2 1	
Stacking stems (4th,8th)	pils	10	5.1	2.16	21,6				
							1,1 (4,1)	100	
Subtotal	T		149.2		628.0		15 to 160	76.3	
Insurances quota		1.40)		879.2				
Total		T			955.5				

Appendix F-27(11) Reforestation Cost per ha.

			Labor	~ ~~	***************************************	Materials	,		Machinery
Operations	Unit	Quantity	Productivity	Cost/unit	Cost	Quantity	Price	Cost	Contract
			Man/ha	US\$	USS		US\$	USS	US\$
Marking terrain planting	1000Point	1.000	1.0	4.21	4.2				
Seedling transport	km	100	8.1	0.34	34.0	20	0.39	7.8	
Preparate seedling store	m	5	0.1	0.052	0.3				
Temporary storage	1000plant	1.000	0.0	0.103	0.1				
Planting	1000plant	1.000	14.4	60.69	60.7	41.7	0.51	21.3	
Robinia pseudoacacia	1000plant					1,000	13.5	13.5	
Revising plantation	1000plant	0.020	0.4	86.5	1.7		· · · · · · · · · · · · · · · · · · ·		
Hoeing first year (1')	times	ī	4.0	16.80	16.8				
Same (2)	times	1	3,3	14.08	14.1				[
Weed control	times	1	19.9	83,68	83.7				
Blanking up (40%)	1000plant	0.400	3.8	40.4	16.2			1 1 1	
Robinia pseudoacacia	1000plant					0.400	13.5	5.4	
Cutting seedling stems	times	1	16.2	68.03	68.0				
Hoeing first year (1')	times	1	4.0	16.80	16.8				
Same (2')	times	1	3.3	14.08	14.1				
Salvage cutting, Clearing	times	2	25.9	54.50	109.0				17 11 11
(4th,8th)			7.5						
Stacking stems (4th,8th)	pils	10	5.1	2.16	21.6				
				1.					
Subtotal		7	109.6		461.2			48.0	
Insurances quota		1.40			645.7				
Total		-			693.7				

Appendix F-27(12) Reforestation Cost per ha.

For strong damaged stand of Robinia F11
Robinia pseudoacacia forest (Q.frainetto, Q.cerris)

	and the		Labor		11 1 11	Materials	· .		Machinery
Operations	Unit	Quantity	Productivity	Cost/unit	Cost	Quantity	Price	Cost	Contract
	ļ ————		Man/ha	US\$	USS		US\$	US\$	US\$
Stumpage removal	ha	0.67		760.5					509.5
Stumpage gathering	ha	0,67		inc.a					
Soil preparation	ha	0.67		inc.a	,				
Scarifying	ha	0.67	1000	: inc.a	10				
Ploughing	ha	0,67		45.1					30.2
Disk harrowing	ha	0.67		22.5					15.1
Marking terrain planting	1000Point	4.002	4.0	4.21	16.8				
Seedling transport	km	100	10.7	0.45	45.0	20	0.39	7.8	
Preparate seedling store	m ·	20		0.039	0.8			-	
Temporary storage	1000plant	4.002	0.1	0.077	0.3		1 1 1 1		
Planting	1000plant	4.002	55.3	58.2	232.9				
Quercus frainetto	1000plant				1.0	0.534	20.5	10.9	
Quercus cerris	1000plant					2.134	15.3	32.7	
Pyrus pyraster	1000plant					0.267	20.0	5,3	
Others	1000plant			1	7	1.334	15.0	20.0	
Revising plantation	1000plant	0.060	1.2	86.5	5.2				
Cutting seedling stems	1000plant	4.002	1.6	1.69	6.8				
Hoeing first year (1')	times/Liter	1	5.3	22.56	22.6	38.1	0.51	19.4	1.1
Same (2)	times/Liter	. 1	4.3	18.04	18.0	30.5	0.51	15.6	
Blanking up (20%)	1000plant	0.800	7.7	40.4	32.3		1.5	5	2.4
Q.frainetto	1000plant					0.160	20.5	3.3	
Q.cerris	1000plant		100	100		0.640	15.3	9.8	
Hoeing next year(1')	times/Liter	5	26.6	22.56	112.8	190.5	0.51	97.2	
Hoeing next year(2)	times/Liter	5	21.3	18.04	90.2	152.5	0.51	77.8	
Weed control	times	3	7.9	11.05	33.2			8 a 3a	
Salvage cutting (7th, 10th)	times	2	17.4	36.53	73.1		1		
Marking for clearing	times	2	0.3	0.63	1.3			17 .	
Clearing (15th,20th)	times	2	6.0	12.7	25.4				
Stacking stems	pils	6	3.1	2.16	13.0				
<u> </u>	<u> </u>	l			T				
Subtotal	1 1			9.0	729.6		i i	299.7	554.8
Insurances quota		1.40			1,021.4				1 1.4
Total	1	 	1	<u> </u>	1,875.9				1

Appendix F-27(13) Reforestation Cost per ha.

		4	Labor	*.		Materials	 -		Machinery
Operations	Unit	Quantity	Productivity	Cost/unit	Cost	Quantity	Price	Cost	Contract
			Man/ha	USS	US\$		US\$	USS	USS
Tilling by minibackhoe	ha/Liter	0.25	3.3	63,80	15.95	160	0.39	62.4	
Marking terrain planting	1000Point	3.125	3.1	4.21	13.2				
Seedling transport	km/Liter	100	5.3	0.23	22.5	20	0.39	7.8	
Preparate seedling store	m	10	0.1	0.04	0.4				
Temporary storage	1000plant	3.125	0.1	0.08	0.2				
Planting	1000plant	3.125	43.2	58.20	181.9				
Quercus frainetto	1000plant		15.55			0.694	20.5	14.2	
Quercus cerris	1000plant					1.389	15.3	21.3	
Others	1000plant	1.0	·	:		1.042	15.0	15.6	
Revising plantation	1000plant			86.50	4.1				
Cutting seedling stems	1000plant	3,125			5.3				
Hoeing first year (1')	times/Liter	1	. 7.1	15.25	15.3	18.8	0.51	9.6	
Same (2')	times/Liter	1	5.7	12.20	12.2	15.0	0.51	7.7	
Blanking up (20%)	1000plant	0.625	6.0	40.40	25.3				
Q.frainetto	1000plant					0.125	20.5	2.6	
Q.cerris	1000plant		,		100	0.500	15.3	7.7	
Hoeing next year(1')	times/Liter	5	35.4	15.25	76.3	93.75	0.51	47.8	
Hoeing next year(2)	times/Liter	5	28.3	12.20	61.0	75.0	0.51	38.3	
Weed control	times	3	6.0	8.35	25.1				
Salvage cutting (7th, 10th)	times	2	6.5	13.64	27.3				
Marking for clearing	times	2	0.2		0.9				
Clearing (15th, 20th)	times	2	4.2	8,89	17,8				
Stacking stems	pils	6	1.4	1.01	6.1				
(0.14.1)		<u> </u>	<u> </u>		610.4	ļ		2210	
Subtotal		ļ		ļ	510.4	4		234.8	
Insurances quota	<u> </u>	1.40	<u>'</u>	ļ	714.6	<u> </u>			
Total	.l	L	L	<u> </u>	949.4	<u> </u>	L	L	<u> </u>

Appendix F-27(14) Reforestation Cost per ha.

For strong damaged stand of Populus F13
Populus spp. forest (Q.robur, Fraxinus excelsior, Others)

			Labor		. 1.	Materials			Machinery
Operations	Unit	Quantity	Productivity	Cost/unit	Cost	Quantity	Price	Cost	Contract
	7		Man/ha	USS	US\$		UŠ\$	US\$	US\$
Stumpage removal	ha	1.00		760.5			3.5		760.5
Stumpage gathering	ha	1.00		inc.a					
Soil preparation	ha	1.00		inc.a					
Scarifying	ha	1.00	7	inc.a				11 11	
Ploughing	ha	1.00	1 4 1	45.1				 -	45.1
Disk harrowing	ha	1.00		22.5					22.5
Marking terrain planting	1000Point	6.667	6.7	4.21	28.1		1,445		
Seedling transport	km	100	10.7	0.45	45.0	20	0.39	7.8	
Preparate seedling store	m	20	0.2	0.039	0.8				
Temporary storage	1000plant	6.667	0.1	0.077	0.5				
Planting	1000plant	6.667	92.2	58.2	388.0			3.4	
Quercus robur	1000plant	19.7				3.556	17.0	60.5	
Fraxinus excelsior	1000plant					0.889	15.0	13.3	
Others	1000plant		1 7 7 7 7 7			2.222	15.0	33,3	
Revising plantation	1000plant	0.100	2.1	86.5	8.7	1.00	1.		
Cutting seedling stems	1000plant	6.667	2.7	1.69	11.3				
Hoeing first year (1')	times/Liter	- 1	7.6	32.60	32.6	40.0	0.51	20.4	
Same (2')	times/Liter	j	6.1	26.08	26.1	32.0	0.51	16.3	
Blanking up (20%)	1000plant	1.333	12.8	40.4	53.9				-
Quercus robur	1000plant					1.066	17.0	18.1	1.5
Fraxinus excelsior	1000plant					0,267	15.0	4.0	
Hoeing next year(1')	times/Liter	5	37.8	32.60	163.0	200.0	0.51	102.0	+ + 1
Hoeing next year(2)	limes/Liter	5	30.3	26.08	130.4	160.0	0.51	81.6	13 No. 15
Weed control	times	3	23.8	33.47	100.4	A			
Salvage cutting (7th, 10th)	times	2	25.9	54.55	109.1	-			
Marking for clearing	times	2	0.5	0.95	1.9		1.1	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Clearing (15th, 20th)	times	7	9.0	18.95	37.9				3 1, 3
Stacking stems	pils	10	5.1	2.16	21.6				
			- 1		1				1.1.1
Subtotal	T	· · · · · ·	1		1,159.1			357.4	828.1
Insurances quota		1.40			1,622.8	T			·
Total			1		2,808.2				

Appendix F-27(15) Reforestation Cost per ha.

·			Labor			Materials			Machinery
Operations	Unit	Quantily	Productivity	Cost/unit	Cost	Quantity	Price	Cost	Contract
			Man/ha	US\$	US\$		US\$	USS	US\$
Stumpage removal	ha	1.00		436.3		1			436.3
Stumpage gathering	ha	1.00		124.7					124.7
Soil preparation	ha	1.00		74.8					74.8
Scarifying	ha	1.00		124,7					124.7
Ploughing	ha	1.00	5.7	45.1					45.1
Disk harrowing	ha	1.00		22.5					22.5
Marking terrain planting	1000Point	0.625	0.6	4.21	2.6				
Seedling transport	km	100	1.2	0.05	5.0	20	0.39	7.8	
Planting	1000plant	0.625	8.6	58.2	36.4				
Populus alba	1000plant					0.625	235.5	147.2	
Revising plantation	1000plant	0.100	2.1	86.5	8.7				
Hoeing first year (1)	times/Liter	1	7.6	32.60	32.6	40.0	0.51	20.4	
Same (2')	times/Liter	1	6.1	26.08	26.1	32.0	0.51	16.3	
Blanking up (21%)	1000plant	0,130	1.2	40,4	5.3				
Populus alba	1000plant					0.130	235.5	30.6	
Hoeing next year(1')	times/Liter	2	15,1	32.60	65.2	80.0	0.51	40.8	
Hoeing next year(2)	times/Liter	2	12.1	26.08	52.2	64.0	0.51	32.6	100
Weed control (4th)	times	i	8.0	33.47	33.5	[· · · · · · · · · · · · · · · · · · ·			
Cutting buds (1t,2d)	times	2	3.9	8.22	16.4				
Pruning (7th)	times	1	9.8	41.11	41.1	, ,			
Subtotal			76.2		325.0			295.8	828.1
Insurances quota		1.40		, .	455.0				
Total					1,578.8				

Appendix F-28(1) Labor Volume by Operation Year

Year	Oli) Cursing	Log production	Ground clearance	Planting	Tending	D.I.W	Forest mantle replantation	Total Man-Day
2	1,469							1,46
3	1,803	7,834	228					9,86
4	2,461	9,629	284	10,531	1,849	221	80	25,05
5	2,913	13,158	578	16,373	6,900	798	1,050	41,77
6	4,117	15,947	425	29,236	13,038	399	1,937	65,09
7	4,737	21,978	2,826	36,951	22,056		1,481	90,02
8	3,962	25,199	3,592	57,972	25,906		856	117,48
9		21,077	2,935	74,221	41,415		416	140,00
10				61,115	54,316		220	115,6
11					45,519			45,5
12		energia de la compressión de l			32,147		372	32,5
13	270				29,865		416	30,5
14	540				26,870		220	27,6
15	1,102				15,054		ļ	16,1
16	1,614				6,680			8,2
17	100				4,490	· · · · · · · · · · · · · · · · · · ·		4,4
18	100				6,248			6,34
19	202			-	5,417	* .		5,6
20	405				1,014		{	1,4
21	602				1,175	<u> </u>	7.77	1,7
22 23	63				3,412 4,839		 	3,4
23	127	 			4,839	· · · · · · · · · · · · · · · · · · ·	 	4,9 4,3
25	254	ļ			1,019		} -	1,2
26	378				1,175			1,5
27	370	!			3,412	 	 	3,4
28		<u> </u>		174. 37. 3	4,382			4,3
29					3,611		 	3,6
S-total	27,119	114,822	10,868	286,399	366,050	1,418	7,048	813,7
33	387	11.,011	10,000	203,073	0.00,000		1,010	3
34	775							7
35	1,559							1,5
36	2,319							2,3
37						7		
38	602		14 A 1					6
39	835							8
40	1,331							1,3
41	1,522	2						1,5
42	4,213							4,2
43	5,419							5,4
44	4,472	2						4,4
48								2
49					14 5			1
50								
51								(
52				, , , , ,		7 1 1		1,
53								2,7
54	<u></u>	9]	<u> </u>	<u> </u>	<u> </u>	<u> </u>	9.00	1,8
					* 44			
- 50		•						100 4 100
58	121							
58 59	121	8				. 1		
58 59 60	121 168 0 267	8						2
58 59 60 61	3 12 168 0 267 1 300	8 7 6				. 1		1
58 59 60 61 62	3 123 0 165 0 265 1 306 2 84	8 7 6 7				. 1		2
58 59 60 61 62 63	123 168 168 168 168 168 168 168 168 168	8 7 6 7				. 1		1,1
58 59 60 61 62	121 163 164 165 165 166 166 166 166 166 166 166 166	8 7 6 7 7 9				. 1		1,
58 59 60 61 62 63	12 166 166 166 166 166 166 166 166 166 1	8 7 6 6 7 9				. 1		1,1
58 59 60 61 62 63 64	12 166 166 166 166 166 166 166 166 166 1	8 7 6 7 7 9 9						1,
58 59 60 61 62 63 64	12 16 26 30 84 3 1,08 4 89	8 7 6 7 7 9 9						1,
58 59 60 61 62 63 64 68 69	12 16 16 16 16 16 16 16 16 16 16	8 7 7 6 7 9 9 9						2 3 8 1,1
58 59 60 61 62 63 64 68 69 70	12 16 16 16 17 16 16 16 16 16 16 16 16 16 16	8 7 7 6 7 9 9 9 5 4 6						1,6
58 59 60 61 62 63 64 68 69	12 16 16 16 16 16 16 16 16 16 16	8 7 7 6 7 9 9 9 5 4 6 1						

Total (Dolj and C	Oli)							Total
Operation Year	Cursing	Log production	Ground clearance	Planting	Tending	D.I.W	Forest mantle replantation	Man-Day
	<u>-</u>	production	CRESTANCE				- replantation	
78	69	· · · · · · · · · · · · · · · · · · ·						69
79	96	:						96
80	152							152
81	175							175
82	482							482
83	620							620
84	512							512
123	433							433
124	604							604
125	963							963
126	1,103							1,103
127	3,025					4.25		3,025
128	3,893							3,893
129	3,210	<u> </u>						3,210
								
143	459	<u> </u>	· · · · · · · · · · · · · · · · · · ·					459
144	640							640
145	1,020	<u> </u>	•					1,020
146	1,168							1,168
147	3,206		- 1 - 1					3,206
148	4,125 3,402							4,125
149	3,402	l	L		LJ		<u> </u>	3,402
163	487						T	487
164	678							678
165	1,081			· · · · · · · · · · · · · · · · · · ·				1,081
166	1,237							1,237
167	3,396							3,396
168	4,370							4,370
169	3,604					11.1	<u>-</u>	3,60
S-total	81,364	200					<u> </u>	81,327
Total	108,483	114,822	10,868	286,399	366,050	1,418	7,048	895,051

*Remark D.I.W: Drainage and Infiltration Works

Appendix I	·-28(2)	Labor Volume by Operation Year	ſ

Test Production Pergartics Pergartics Pergartics Percental Perce	LW ma	399	12 19 19	40 520 936 977 186 220	11,95 6,29 3,29 4,64 4,13 1,03
Training Production Produ	102 399	107 399 399 399	12 19	40 520 936 977 670 186 220	983 6,64 18,27, 30,95 49,62 69,45; 85,60 33,11; 23,71 22,81 21,31 11,95 6,29 3,29 4,64 4,13 1,03
2	102 399	399	12 19 19	40 520 936 977 670 186 220	6,64 18,27 30,95 49,62 69,45; 85,60 33,11 23,71 22,81 11,95 6,29 3,29 4,43 1,03
4 715 3,228 80 2,222 378 119 40 6,782 1,746 6,401 204 8,309 1,471 5 785 3,805 174 3,743 1,343 1,333 399 530 10,819 2,128 9,333 404 12,630 5,517 6 1,212 4,180 125 6,246 2,715 1,001 15,479 2,905 11,767 300 22,909 10,323 7 1,449 6,460 744 7,180 4,233 504 20,570 3,288 15,518 2,032 29,711 17,823 8 1,190 7,707 985 15,354 6,807 186 32,229 2,772 17,492 2,607 42,618 19,099 9 6,330 763 20,165 10,985 230 38,474 14,747 2,172 54,056 30,429 10 12,409 12,409 12,409 12,409 12,409	399	399	9	520 936 977 670 186 220	18,27 30,95 49,62 69,45 85,25 101,59 85,60 33,11 22,81 21,31 11,95 6,29 3,29 4,64 4,13 1,03
5 785 3,805 174 3,743 1,333 399 530 10,819 2,128 9,353 404 12,630 5,517 6 1,212 4,180 125 6,246 2,715 1,000 15,479 2,905 11,767 300 22,900 10,323 7 1,449 6,460 744 7,180 4,233 504 20,570 3,788 15,918 2,902 2,9712 17,492 2,607 42,618 19,099 9 6,330 763 20,165 10,986 230 38,474 14,747 2,172 54,056 30,429 10 11 11 11 12,409 12,409 12,409 12,409 12,409 12,409 12,409 12,409 12,409 12,331 10 11 12 8,620 186 8,866 122,527 13 6 7,496 230 7,732 264 22,527 13 13 14 24 6,287 6,287 6,311	399	399	9	520 936 977 670 186 220	30,95 49,62 69,45; 85,25; 101,59 85,60 33,11; 22,81 21,31 11,95 6,29 3,29 4,64 4,13
6 1,212 4,180 125 6,246 2,715 1,001 15,479 2,905 11,767 300 22,990 10,323 7 1,449 6,460 744 7,180 4,233 504 20,570 3,288 15,518 2,082 29,771 17,823 8 1,190 7,707 983 15,354 6,807 186 32,229 2,772 17,492 2,607 42,618 19,999 9 6,330 763 20,165 10,986 230 38,474 14,747 2,172 54,056 30,429 10 15,938 14,105 30,013 45,177 40,211 41,105 30,413 45,177 40,211 11 1 12,409 124,09 124,09 124,09 230 7,322 264 223,527 13 6 7,496 230 7,732 264 223,593 14 24 6,287 6,311 516 20,583		395	9	936 977 670 186 220 186 186	49,62 69,45 85,25 101,59 85,60 33,11 23,71 22,81 21,31 11,95 6,29 3,299 4,64 4,13
7 1,449 6,460 744 7,180 4,233 504 20,570 3,288 15,518 2,082 29,771 17,823 8 1,190 7,707 985 15,354 6,807 186 32,229 2,772 17,492 2,607 42,618 19,099 9 6,330 763 20,165 10,986 230 38,474 17,472 2,472 54,056 30,429 10 15,938 14,105 30,043 45,177 40,211 11 11 12,409 12,409 12,409 45,177 40,211 12 8,620 186 8,806 23,527 13 6 7,496 230 7,732 264 22,369 14 24 6,287 6,311 516 20,583 15 39 4,159 4,198 1,063 10,895 16 62 1,936 1,998 1,552 4,744 17 1,195	399		1	977 670 186 220 186 186	69,45: 85,25: 101,59: 85,60: 33,11: 23,71: 22,81: 21,31: 11,95: 6,29: 3,29: 4,64: 4,13: 1,03:
8 1,190 7,707 985 15,354 6,807 186 32,229 2,772 17,492 2,607 42,618 19,099 9 6,330 763 20,165 10,986 230 38,474 14,747 2,172 54,056 30,429 10 15,938 14,105 30,013 14,747 2,172 54,056 30,429 10 45,177 40,211 11 11 12,409 12,409 12,409 12,409 33,110 33,110 12 8,620 185 8,806 230,7732 264 22,527 13 6 7,496 230 7,732 264 22,539 14 24 6,287 6,311 516 20,583 10,895 16 62 1,936 1,988 1,063 10,895 16 62 1,935 1,198 1,552 4,744 17 1,198 1,198 1,198 1,198 1,474 1,744 11 1,474 1,198 1,488 193 3,941 30 <		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		670 186 220 186 186	85,25 101,59 85,60 33,11 23,71 22,81 21,31 11,95 6,29 3,29 4,64 4,13 1,03
9				186 220 186 186	101,59 85,60 33,11 23,71 22,81 21,31 11,95 6,29 3,29 4,64 4,13
10				220 186 186	85,60 33,11 23,71 22,81 21,31 11,95 6,29 3,29 4,64 4,13
11				186	23,71 22,81 21,31 11,95 6,29 3,29 4,64 4,13
12				186	22,81 21,31 11,95 6,29 3,29 4,64 4,13
14 24 6,287 6,311 516 20,583 15 39 4,159 4,198 1,063 10,895 16 62 1,936 1,998 1,552 4,744 17 1,195 1,195 3,295 18 2 1,702 1,704 98 4,546 19 9 1,476 1,485 193 3,941 20 13 370 383 392 644 21 23 413 436 579 762 22 905 905 2,507 2,507 23 1 1,326 1,327 62 3,513 24 6 1,168 1,174 121 3,973 25 8 370 378 246 649 26 14 413 427 364 762 27 905 905 905 2,207 28 1,189 1,189<		3 5 5 7 7 3 3			21,3i 11,95 6,29 3,29 4,64 4,13 1,03
15 39		6 6 7 8 8 8		220	11,95 6,29 3,29 4,64 4,13 1,03
16 62 1,936 1,998 1,552 3,295 18 2 1,702 1,704 98 4,546 19 9 1,476 1,485 193 3,941 20 13 370 383 392 644 21 23 413 436 579 762 22 905 905 905 2,507 23 1 1,326 1,327 62 3,513 24 6 1,168 1,174 121 3,073 25 8 370 378 246 649 26 14 413 427 364 762 27 905 905 905 905 26 14 413 427 364 762 27 905 905 905 28 1,189 1,189 1,189 29 942 942 S-total 6,645 34,268 2,931 70,848 93,888 518 2,907 212,005 20,474 80,554 7,937 215,551 272,162 33 9 34 36 94 94 94,225 35 55 55 55 55 55 55		1 5 5 1 1 2 7 3 3			6,29 3,29 4,64 4,13 1,03
17		5 1 1 2 7 3 3			3,29 4,64 4,13 1,03
18		5 1 1 2 2 7 3 3 3			4,64 4,13 1,03
19 9 1,476 1,485 193 3,941		7			4,13 1,03
20		1 2 7 3 3		<u> </u>	1,03
22 905 905 2,507 23 1 1,326 1,327 62 3,513 24 6 1,168 1,174 121 3,973 25 8 370 378 246 649 26 14 413 427 364 762 27 905 905 2,507 28 1,189 1,189 3,193 29 942 942 942 2,669 S-total 6,645 34,268 2,931 70,848 93,888 518 2,907 212,005 20,474 80,554 7,937 215,551 272,162 33 9 9 378 9 378 9 378 9 34 36 36 739 9 378 34 36 36 739 9 378 34 36 36 739 36 379 378 379 378 379 379 379		3			
23 1 1,326 1,327 62 3,513 24 6 1,168 1,174 121 3,073 25 8 370 378 246 649 26 14 413 427 364 762 27 905 905 2,507 28 1,189 1,189 3,193 29 942 942 942 2,669 S-total 6,645 34,268 2,931 70,848 93,888 518 2,907 212,005 20,474 80,554 7,937 215,551 272,162 33 9 9 378 9 378 9 378 9 378 9 378 9 378 9 378 9 378 9 378 9 378 9 378 9 378 9 378 9 378 9 378 9 378 379 9 378 379		3	+		1,34
24 6 1,168 1,174 121 3,073 25 8 370 378 246 649 26 14 413 427 364 762 27 905 905 2,507 28 1,189 1,189 1,189 3,193 29 942 942 2,669 S-total 6,645 34,268 2,931 70,848 93,888 518 2,907 212,005 20,474 80,554 7,937 215,551 272,162 33 9 9 378 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 938 9		3	+		2,50
25 8 370 378 246 649 26		9			3,57
26			╌		3,19 89
27					1,12
28 1,169 1,189 3,193 29 942 942 942 2,669 S-total 6,645 34,268 2,931 70,848 93,888 518 2,907 212,005 20,474 80,554 7,937 215,551 272,162 33 9 36 739 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378 378					2,50
29 942 942 942 2,669 S-total 6,645 34,268 2,931 70,848 93,888 518 2,907 212,005 20,474 80,554 7,937 215,551 272,162 33			+-		3,19
33 9 34 36 35 55 36 94 37 3 38 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3	1		1		2,66
34 36 35 55 36 94 37 3 31 3 31 3 34 3 35 3 36 3 37 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31 3 31	900	2 90	00 4	4,141	
35 55 55 55 55 55 55 55 55 55 55 55 55 5	<u> </u>	<u> </u>	-		37
36 94 94 2,225 37 3 11 1		 			1,50
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42 1,119 1,119 3,094 43 1,468 1,468 3,951	-+	┼	-+-	<u> </u>	3,09 3,95
43 1,405 1,167 3,305 1,167 3,305					3,30
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49 128 128 222					22
50 205 205 352					35
51 236 236 402	$ \vdash$				40
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54 489 489 1,385	-+	 	+		1,3
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68 23 69 38 70 61 61 105					79
68 23 69 38 70 61 71 71 71 71					10
68 23 69 38 70 61 71 71 72 140					79 66 10 11 33
68 23 69 38 70 61 71 71 72 140 73 184					79 60 10 11 13 33 44
68 23 69 38 70 61 71 71 72 140					79 66 10 11 33
68 23 69 38 70 61 71 71 72 140 73 184 74 146					79 64 10 11 13 34 4
68 23 69 38 70 61 71 71 72 140 73 184 74 146 78 21 79 35 38 38 66 66 71 105 71 120 140 140 184 184 184 184 184 146 184 146 184 146 184 146 184 146 184 146 184 146 184 146 184 146 184 146 184 146 184 146 184 146 184 148 184 146 184 146 184 148 184 148 184 146 184 146 184 146 184 146 184 146 184 146 185 148 184 148					7: 66 11: 1: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:
68 23 23 52 69 38 38 66 70 61 61 105 71 71 120 72 140 140 387 73 184 184 494 74 146 146 413 78 21 21 48 79 35 35 61 80 56 56 96					7: 66
68 23 23 52 69 38 38 66 70 61 61 105 71 71 71 120 72 140 140 387 73 184 184 494 74 146 146 413 78 21 21 48 79 35 35 61 80 56 96 88 81 65 65 110					79 66 11 11 13 33 44 4
68 23 23 52 69 38 38 66 70 61 61 105 71 71 71 120 72 140 140 387 73 184 184 494 74 146 146 413 79 35 5 61 80 56 96 81 65 65 110 82 128 354					79 66 66 11 11 13 33 4 4 4 4 4 1 1 1 1 3 3 3 1 3 3 1 3 3 3 1 4 4 1 1 3 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 3 1 3 3 3 1 3 3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
68 23 23 52 69 38 38 66 70 61 61 105 71 71 71 120 72 140 140 387 73 184 184 494 74 146 146 413 79 35 35 61 80 56 96 81 65 65 110 82 128 128 354 83 168 168 452					79 66 11 1.1 3.3 4 4 4 1 1 1.3 3.3 4 4 4 4 4
68 23 23 52 69 38 38 66 70 61 61 105 71 71 71 120 72 140 140 387 73 184 184 494 74 146 146 413 79 35 5 61 80 56 96 81 65 65 110 82 128 354					79 66 66 11 11 13 33 4 4 4 4 4 1 1 1 1 3 3 3 1 3 3 1 3 3 3 1 3 3 1 3 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 3 1 3 3 3 1 3 3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
68 23 23 52 69 38 38 66 70 61 61 105 71 71 71 120 72 140 140 387 73 184 184 494 74 146 146 413 78 21 21 48 79 35 35 61 80 56 56 96 81 65 65 110 82 128 128 354 83 168 452 84 84 134 378 378					79 66 11 11 13 33 44 4 4 1 1 1 3 3 4 4 3 4 4 3 4 4 3 4 4 3 4 4 4 4
68 23 23 52 69 38 38 66 70 61 61 105 71 71 71 120 72 140 140 387 73 184 184 494 74 146 146 413 79 35 35 61 80 56 96 81 65 65 110 82 128 128 354 83 168 168 452					79 66 11 11 13 33 44 4 4 1 1 1 3 3 4 4 3 4 4 3 3 4 4 4 3 3 4 4 4 4
68 23 23 52 69 38 38 66 70 61 61 105 71 71 71 71 72 140 140 387 73 184 184 494 74 146 146 146 413 79 35 35 61 80 56 96 81 80 56 56 96 81 65 100 82 128 354 83 168 452 84 134 134 378 84 134 134 378 85 128 128 372 128 372 125 373 373 590 373 590 373 590 373 590 373 590 373 590 373 373 590 373 590 373 373 590 373 373 373 590 373 <td></td> <td></td> <td></td> <td></td> <td>79 66 11 11 13 33 44 4 4 1 1 1 3 3 4 4 3 4 4 3 4 4 3 4 4 3 4 4 4 4</td>					79 66 11 11 13 33 44 4 4 1 1 1 3 3 4 4 3 4 4 3 4 4 3 4 4 3 4 4 4 4
68 23 23 52 69 38 38 66 70 61 61 105 71 71 71 71 72 140 140 387 73 184 184 494 74 146 146 413 78 21 21 48 79 35 35 61 80 56 96 81 65 65 110 82 128 354 83 168 168 452 84 134 134 378					10 10 10 10 10 10 10 10 10 10 10 10 10 1

Operation C Year 128 129 143 144	1,119 890 147 245	Production Lng	Soil preparative	Planting	Tending	DLW	Forest mantle reglantation	Man Day 1,119	Craising	Log production	Soil preparation	Planting	Tending	DLW	mantle	Man-Day
129	890							1 110					 L		reclastatio	
143	147							1,112	2,774		I					2,774
								890	2,320							2,320
144	2451						ļ	147	312							312
		*****			.,			245	395							395
145	394							394	626			1				626
146	454							454	714							714
147	901							901	2,305							2,30
148	1,182							1,182	2,943			l				2,94.
149	940							940	2,462			1				2,46
		, , , , , , , , , , , , , , , , , , , ,								· .						
163	156							156								33
164	259							259	419							419
165	417							417	664						L	66
166	480							480	757							75
167	953							953	2,443							2,44
168	1,250							1,250								3,120
169	994						1	994	2,610			l				2,610
	22,853							22,816				إججيب				58,511
	29,498	34,268		70,848 ration Wor	93,888	518	2,907	234,821	78,985	80,554	7,937	215,551	272,162	900	4,141	660,230

Appendix F-29(1) Operation Volume by Operation Year (Tending)

	Olt and Do	olj Total						
Operation Year	Supplementary planting	Correction of planting	Scarifying	Weeding	Improvement cutting of brush	Intraspecific improvement cutting	Removal of lateral buds	Fruning
3								
4			268.00	99.00				
5	35.80	134.00	694.88	235,44				
6	60.69	213.44	1,360.28	461.14				
. 7	111.74	377.70	2,168.72	613.81	45.00			
8	152.67	495.82	3,071.92	1,055.42	90.00		9.80	
9	126.61	631.00	4,135.78	1,654.95	181.00		9.80	
. 10	160.22	801.08	5,280.18	2,095.38	358.15			
11	132.24	661.20	5,013.70	1,472.08	123,44	45.00		1000
12			4,620.30	661.20	196.70	90.00		
13			4,170.16		314.07	181.00		1.5
- 14			2,924.56	1 1 1	746.24	269.15		9.80
15			1,322.40		997.78			1.1
16					886.27			
17					622.80		***	
18					801.08	89.00	1	
19			,		661,20	123.44		
20						196.70		
21						225.07		4. 1
22						622.80)	
23					. 19	890.08	3	
24			1.11			784.64		
25						196.70		
26						225.07	7	
27						622.80)	
28						801.08	3	
29						661.20)	

						~		· · · · · · · · · · · · · · · · · · ·
11/24-21 1	779 97	2 21 4 24	25 020 00	0.040.40	C 000 003	< 000 001	*****	اممما
Total 1	179.971	3.314.241	35,030.88	8,348,42	6.023.73	6.023.73	19.60	9.801
		0,01	00,000,000	0,5 .0	0,023113	0,025.75	12.00	7.00

Pruning 16.40 8.20 8.20 Lateral bud remove 614.55 2.508.50 25,542.00 5,977.00 4,436.75 4,436.75 86.00 175.00 258.85 62.00 78.44 124.30 141.67 141.67 167.36 56.08 56.09 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11.67 11 cfeaning 44.00 86.00 175.00 124.30 124.30 124.30 124.30 135.80 138.38 138.38 138.40 1457.36 1457.36 1457.36 1457.36 Shrub cleaning 72.00 163.44 316.74 412.01 730.18 1.183.11 1.530.04 1.080.38 Weeding 212.00 540.88 1,051.48 1,680.52 2,261.64 2,912.10 3,765.30 3,392.02 3,343.42 3,060.08 2,145.36 古描字 weeding 106.00 164.44 299.30 400.52 465.56 584.08 488.60 Planting revision Dolj County Supplementary planting 30.00 50.09 94.86 131.87 93.19 116.82 1.60 1.60 Pruning 1.60 1,60 Lateral bud remove Appendix F-29(2) Operation Volume by Operation Year (Tending) 1,586.98 27.00 45.00 83.40 165.44 165.44 165.44 172.60 0.4 0.90 0.30 0.30 cleaning 1,00 4,00 6,00 72,40 110,40 289,40 256,00 165,44 165,44 172,60 1,586.98 Shrub cleaning 2,371.42 27.00 72.00 144.40 201.80 325.24 471.84 471.84 565.34 391.20 Weeding 56.00 154.00 308.80 488.20 810.28 1.223.68 1.421.68 1.176.88 1.110.08 779.20 9,488.88 地域的 805.74 28.00 49.00 78.40 95.30 217.00 172.60 Planting revision Olt County 165.42 Supplementary planting 5.80 10.60 16.88 20.80 33.42 43.40 Total 2 21 %

Appendix F-30 Restoration Targets for Damaged Forest by Site Index, Damage Grade <Olt County>

					Actual		Target	
Present Stand	Site	Damage	Stand	Plantation	Regeneration	Regeneration Method	Unit Stock	Target Stock
rieschi Stanu	Index	Grade	Area	Method/Rate	Area			1
			+ +		ha	Target Perio	m³/ha	m³
frainetto	2	Strong	1.3	Plantation 80%	1.0	Q.frainetto	451	: 4
F5		Moderate		Plantation 50%	2.7	12055	451	1,2
	3	Strong		Plantation 80%	47.8		374	17,8
		Moderate		Plantation 50%	109.3		374	40,8
	4	Strong		Piantation 80%	64.7		303	19,6
		Moderate		Plantation 50%	75.9		303	22,9
	5	Strong		Plantation 80%	29.1		221	6,4
		Moderate		Plantation 50%	23.0		221	5,0
	total		600.1	1 1 1 N	353.6			114,56
frainetto	2	Strong		Plantation 80%		Q.frainetto	1 1	
& Q.cerris F6	1	Moderate	8.4	Plantation 50%		Q.cerris	441	1,8
~	3	Strong	30.7	Plantation 80%	24.6	120ys	355	8,7
		Moderate	141.6	Plantation 50%	70.8		355	25,1
•	4	Strong		Plantation 80%	44.1		285	12,5
		Moderate	130.7	Plantation 50%	65.4	The second of the second of the	285	18,6
•	5	Strong	14.8		11.8		210	2,4
		Moderate	76.4		38.2		210	8,0
	total		457.7		259.0			77,40
Quercus spp.	1	Strong		Plantation 80%	0.0	Q.robur Q.petraea ,	1	
F7		Moderate	0.2	Plantation 50%	0.1	1	817	
	2	Strong	1.5	Plantation 80%	1.2	4	687	8
	:	Moderate	2.0	Plantation 50%	1.0		687	6
	3	Strong	1.4	Plantation 80%	1.1	1	557	6
		Moderate	15.5	Plantation 50%	7.8		557	4,3
	4	Strong	20.7	Plantation 80%	16.6	4	411	7,3
	1 .	Moderate	21.9	Plantation 50%	11.0		444	4,8
	5	Strong	2.4	Plantation 80%	1.9		341	6
		Moderate	5.3	Plantation 50%	2.7		341	9
	total		70.9		43.3			20,3
Quercus &	1	Strong	0.0	Plantation 80%	0.0	Q.robur ,Q.petraca ,		
Others F8		Moderate	0.6	Plantation 50%	0.3	Q.pedun "Fraxinus	888	2
	2	Strong	17.6	Plantation 80%	14.1	126ys	749	10,5
		Moderate	0.8	Plantation 50%	0.4		749	3
	3	Strong	27.5	Plantation 80%	22.0	i	609	13,3
	1	Moderate	25.4	Plantation 50%	12.		609	7,7
	4	Strong	41.0	Plantation 80%	32.		485	15,9
	L	Moderate	19.5	Plantation 50%	9.1		485	4,7
	5	Strong	38.2	Plaetation 80%	30.0	<u> </u>	374	11,4
	L	Moderate	5.0	Plantation 50%	2.	5	374	9
	lotat		175.6		125.			65,2
Robinia	3	Strong		Plantation 100%	0.0	Robinia, Others 30ys		1 B 4 1 1 1
above20ys F9	<u> </u>	Moderate		Coppice		Species for planting:Robinia 30ys	213	2
	4	Strong		Pleatation 100%		B Robinia, Others 30ys	181	
· .	ļ	Moderate	2.5	Coppice	2.	Species for planting:Robinia 30ys	153	
	total		7.	1 1 1 1	7.			1,7
Robinia	3	Strong	4.0	Plantation 100%	4.	6 Robinia, Others 30ys	239	1.0
under20ys F10		Moderate	· · · · · · · · · · · · · · · · · · ·	Coppice		O Species for planting Robinia 30ys	197	
4,44	4	Strong	 	Plantation 100%		4 Robinia, Others 30ys	181	2
		Moderate		Coppice	2.	O Species for planting Robinia 30ys	136	
	total	<u> </u>	22.0		I4.			2,
Robinia	5	Strong	1.	9 Plantation 100%	1.	9 Q.cerris frai . 120ys	210	
above20ys F11		Moderate		O Coppice	0.	O Species for planting: Q.ce. fr. 120ys		
	total		1.		1.			
Populus spp.	3	Strong	0.	0 Plantation 100%		0 Q.robur,others 120ys		
F13		Moderate		6 Plantation 100%	1.	6 Populus alba 30ys	289	4
L	total		1.	1	1.	6		
	_	Total	1,337.	11	805.	7]		282,

<Dolj County>

Present Stand	Site Index	Damage Grade	Stand Area	Plantation Method/Rate	Actual Regeneration Area ha	Regeneration Method 'Farget Peri	Target Unit Stock od m³/ha	Target Stock
Seed Stand			•		•			
Q.frainetto F1	3	Strong	32.8	Plantation 60%	19.7	Q.frainetto 120ys	374	7,360
Q.frai.,cer . F2	3	Strong	45.2	Plantation 60%	27.1	Q.frai ,cer 120ys	355	9,628
	L	Moderate	15.2	Plantation 40%	6.1	Q.frai,cer 120ys	355	2,158
<u> </u>	total	1	60.4		33.2			11,786
Q.spp. F3	1	Moderate	3.6	Plantation 40%	1.4	Q.ped.pet.,cer.120ys	817	1,176
		Total	95,8		54.3			20,323

	Site	Damage	Stand	Plantation	Actual Regeneration	Regeneration Method	Target Unit Stock	Target Stock
Present Stand	Index	Grade	Arca	Method/Rate	Area	Tregeneration Pression		Tenger Brock
	HIGGA	Glade	Aita	Without Kate	ha ha	Target Period	m³/ha	m³
					<u> </u>			
Q.frainetto	2	Strong	0.0			Q.frainetto		
FS		Moderate	6.4	Plantation 50%	3.2	120ys	451	1,443
•	3	Strong	152.3	Plantation 80%	121.8		. 374	45,568
		Moderate	195.3	Plantation 50%	97.7		374	36,521
	4	Strong	149.7	Plantation 80%	119.8		303	36,287
		Moderate	189.2	Plantation 50%	94.6		303	28,664
	5	Strong	70.9	Plantation 80%	56.7		221	12,535
		Moderate	134.9	Plantation 50%	67.5		221	14,906
	lotal		898.7		561.2			175,925
Q.frainetto	2	Strong	3.8		3.0	~ *	441	1,341
& cents F6		Moderate	28.3	Plaetation 50%	14.2	cerris	441	6,240
	3	Strong	101.1	Plantation 80%	80.9	120ys	355	28,712
		Moderate	566.7	Plantation 50%	283.4		355	100,589
	4	Strong	202.8		162.2		285	46,238
	-	Moderate	656.5	Plantation 50%	328.3		285	93,551
	5	Strong	114.9		91.9		210	19,303
		Moderate	264.1	Plantation 50%	132.1		210	27,731
	total		1938.2		1095.9			323,706
Quercus spp.	1	Strong	1.7		1.4		817	1,111
F7	!	Moderate	6.2	Plantation 50%	3.1	pedun cerris	817	2,533
·	2	Strong	2.6		2.1	120ys	687	1,429
	<u> </u>	Moderate	6.4		3.2		687	2,198
	3	Strong	27.0		21.6		557	12,031
		Moderate	60.8		30.4		557	16,933
	4	Strong	28.5		22.8		441	10,123
		Moderate	46.3	Plantation 50%	23.2		414	10,279
	5	Strong	1.1	Plantation 80%	0.9	1	341	300
		Moderate	14.7	Plantation 50%	7.4	-	341	2,500
	total	ļ	195.3		115.9			59,443
Quercus &	2	Strong		Plantation 80%	0.0			
Others F8	 	Moderate	3.6	<u> </u>	1.8		749	1,348
	3	Strong	21.5		17.2	1	609	10,475
	 	Moderate	25.5		12.8		609	7,765
	4	Strong	18.4		14.7	d .	485	7,139
		Moderate	9.5		4.8	-	485	2,304
	5	Strong	18.3		14.6		374	5,475
	1	Moderate	43.7		21.9		374	8,172
	total	 	140.5		87.7			42,678
Robinia	2	Strong	3.2		3.2		333	1,066
above20ys F9	1	Moderate	12.1	 	12.1	 	302	3,654
	3	Strong	108.3		108.3		239	25,88
		Moderate	53.5		53.5		213	11,396
	4	Strong	70.8	Plantation 100%	70.8	• • • • • • • • • • • • • • • • • • • 	181	12,815
	L	Moderate	47.5	Coppice	47.5	<u> </u>	153	7,268
	5	Strong	47.8	Plantation 100%	47.8		105	5,019
		Moderate	14.5	· · · · · · · · · · · · · · · · · · ·	14.5	 	89	1,291
i .	total		357.	7	357.7	4		68,39

Present Stand	Site	Damage	Stand	Plantation	_	Regeneration Method	Target Unit Stock	Target Stock
	Index	Grade	Area	Method/Rate	Area ha	Target Period	m³/ha	m³
Robinia	2	Strong	4.2	Plantation 100%	4.2	Robinia Others 30ys	333	1,399
under20ys F10		Moderate	0.9	Coppice	0.5	Species for planting:Robinia 30ys	283	127
	3	Strong	48.5	Plantation 100%	48.5	Robinia Others 30ys	239	11,592
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Moderate	19.0	Copolice	9.5	Species for planting:Robinia 30ys	197	1,872
	4	Strong	46.6	Plantation 100%	46.6	Robinia Others 30ys	181	8,435
		Moderate	29.7	Coppice	14.9	Species for planting Robinia 30ys	136	2,020
	5	Strong	75.0	Plantation 100%	75.0	Robinia Others 30ys	105	7,875
	1	Moderate	14.1	Соррісе	7.1	Species for planting:Robinia 30ys	79	557
1	total		238.0		206.2			33,875
Robinia	1	Strong	0.0	Plantation 100%	0.0	Q.cetris frai . 1205s		
above20ys F11		Moderate	1.8	Соррьсе	1.8	Species for planting:Q.ce.,fr.120ys	143	257
	total		1.8		1.8			257
Robinia	5	Strong	2.5	Plantation 100%	2.5	Q.cerris frai . 120ys	210	525
under20ys F12	1	Moderate	0.0	Coppice	0.0	Species for planting Q.ce .fr .120ys		
	total		2.5		2.5		1.	525
Populus spp.	1	Strong	1.1	Plantation 100%	1.1	Q.robur,others 120ys	888	977
F13		Moderate	0.0	Plantation 100%	0.0	Populus alba 30ys		
	2	Strong	4.1	Plantation 100%	4.1	Q.robur, others 120ys	749	3,071
**.		Moderate	0.7	Plantation 100%	0.7	Populus alba 30ys	400	280
	3	Strong	4.9	Plantation 100%	4.9	Q.robur, others 120ys	609	2,984
		Moderate	2.1	Plantation 100%	2.1	Populus alba 30ys	289	607
	4	Strong	7.0	Plantation 100%	7.0	Q.robur, others 120ys	485	3,395
	i	Moderate	0.5	Plantation 100%	0.5	Populus alba 30ys	185	93
	5	Strong	0.0	Plantation 100%	0.0	Q.robur, others 120ys		\$.
	Ĺ	Moderate	4.9	Plantation 100%	4.9	Populus alba 30ys	107	524
	total		25.3		25			11,931
		Total	3,798.0		2,454.7	2	1.55	716,731

Sum Total 5,231.9 3,314.2 1,019,527

Appendix F-31 Appraised Wood Value for Damaged Forest by Site Index

			Actual	Regeneration Method	Target Unit		r Wood	Another		r Wood	Ano	ther Use
Present Stand	Site	Damage	Regeneral	5-11-11-11-11-11-11-11-11-11-11-11-11-11	Stock	In	đustry	Use		destry		
	Index	Grade	ion Arca ha	Target Period	m³/ha	%	Volume m³	Volume m ³	Unit Cost	Appraised value	Unit Cost	Appraise value
).frainetto	2	Strong	10	O.frainetto	469	55	258	211	200	52	13.9	10.00
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	-	Moderate	2.7	120ys	1,218	55	670	548	200	134	13.9	· · · · · · · · · · · · · · · · · · ·
• • •	3 .	Strong	47.8		17,892	42	7,515	10,377	200	1,503	13.9	14
		Moderate	109.3	i .	40,878	42	17,169	23,709	200	3,434	13.9	3.
	4	Strong	64.7	l i	19,610	31	6,079	13,531	200	1,216	13.9	18
		Moderate	75.9		22,983	31	7,125	15,858	200	1,425	13.9	2
	5	Strong	29.1	·	6,436	20	1,287	5,148	200	257	13.9	<u>-</u>
		Moderate	23.0	·	5,083	20	1,017	4,066	200	203	13.9	
	total		353.6		114,568		41,119	73,450		8,224	15.7	1,0
2.frainetto	2	Strong		Q.frainetto			,			0,22.	·	1,0
& cenis [6		Moderate	4.2	cerris	1,852	55	1,019	833	200	204	13.9	
:	3	Strong	24.6	120ys	8,719	42	3,662	5,057	200	732	13.9	
		Moderate	70.8	129,3	25,134	42	10,556	14,578	200	2,111	13.9	20
	4	Strong	44.1		12,563	31	3,894	8,668	200	779	13.9	1:
		Moderate	65.4		18,625	31	5,774	12,851	200	1,155	13.9	1
	5	Strong	11.8		2,486	20	497	1,989	200	99	13.9	
	ľ	Moderate	38.2		8,022	20	1,604	6,418	200	321	13.9	
	total	inoctuic	259.0		77,401		27,007	50,394		5,401	13.5	70
Quercus spp.	1	Strong	1	Q robur petraea,	37,101		21,001	50,551		3,101		
F7		Moderate	0.1	pedun cerris	82	61	50	32	200	10	13.9	
	2	Strong	1.2	120ys	824	58	478	346	200	96	13.9	
	1	Moderate	1.0		687	58	398	289	200	80	13.9	
	3	Strong	1.1		624	53	331	293	200	66	13.9	
1.	~	Moderate	7.8		4,317	53	2,288	2,029	200	458	13.9	
	4	Strong	16.6		7,353	47	3,456	3,897	200	691	13.9	
		Moderate	11.0		4,862	47	2,285	2,577	200	457	13.9	
	5	Strong	1.9		655	40	262	393	200	52	13.9	<u> </u>
1 to	•	Moderate	2.7	•	901	40	361	542	200	72	13.9	
	total		43.3		20,307	<u> </u>	9,909	10,397		1,982		14
Quercus &	1	Strong	 	Q.robur petraea,					\vdash	.,,,,,,		
Others F8		Moderate	0.3	1	266	61	163	104	200	33	13.9	
	2	Strong	14.1	120ys	10,546	59	6,222	4,324	200	1,244	13.9	
		Moderate	0.4		300	59	177	123	200	35	13.9	
	3	Strong	22.0		13,398	56	7,503	5,895	200	1,501	13.9	
		Moderate	12.7		7,734	56	4,331	3,403	200	856	13.9	
4.0	4	Strong	32.8		15,908	51	8,113	7,795	200	1,623	13.9	10
		Moderate	9.8		4,729	51	2,412	2,317	200	482	13.9	
:	5	Strong	30.6		11,429	45	5,143	6,286	200	1,029	13.9	
		Moderate	2.5		935			1				
	total		125.1		65,245		34,484	}		6,897		47
Robinia	3	Strong		Robinia Others 30ys		i						
above20ys F9	l i	Moderate	1.0	Species for planting Robinia 30ys	213	14	30	183	16.5	0	12.4	
1	4	Strong	+	Robinia Others 30ys	688	 		ŧ	16.5		12.4	
		Moderate		Species for planting Robinia 30ys	383		8			0	12.4	
	total		7.3		1,283		51	1,232		1		
Robinia	3	Strong		Robinia Others 30ys	1,099			902	16.5	 	12.4	
under20ys F10		Moderate		Species for planting:Robinia 30ys	1,182					3	12.4	
	4	Strong		Robinia Others 30ys	253	2		248		0	12.4	l
1 14 7		Moderate		Species for planting Robinia 30ys	272	2		267	16.5	. 0	12.4	
	total		14.0		2,807	1	374			6	<u> </u>	
Robinia	5	Strong		Q.cerris frai . 120ys	399	20	80				13.9	<u> </u>
above20ys F11	1	Moderate	1	Species for planting:Q.ce.fr.120ys	<u>-</u>	† 	├ ───	 	ᢇᢅ	t	 	
800112033111	total		1.9		399	1	80	319		16	-	
Populus spp.	3	Strong	1	Q.robur, others 120ys	<i></i>		l			· · · · ·	 	
F13		Moderate	1	Populus alba 30ys	462	20	92	370	16.0	 	10.6	
 	total	intoociate	1.0		462	1	92			1		
					- 102		, 71	. 310				

By Planting Species

AL COUR	ıy>		5 6 6				
782.8	Quercus		277,920	112,598	165,322	22,520	2,298
21.3	Robinia		4,090	425	3,665	7	45
1.6	Populus		462	92	370	1	4
805.7	Total		282,473	113,116	169,357	22,528	2,347
	782.8 21.3 1.6	782.8 Quercus 21.3 Robinia 1.6 Populus 805.7 Total	782.8 Quercus 21.3 Robinia 1.6 Populus	782.8 Quercus 277,920 21.3 Robinia 4,090 1.6 Populus 462	782.8 Quercus 277,920 112,598 21.3 Robinia 4,090 425 1.6 Populus 462 92	782.8 Quercus 277,920 112,598 165,322 21.3 Robinia 4,090 425 3,665 1.6 Populus 462 92 370	782.8 Quercus 277,920 112,598 165,322 22,520 21.3 Robinia 4,090 425 3,665 7 1.6 Populus 462 92 370 1

<dolj county<="" th=""><th>y></th><th></th><th></th><th></th><th></th><th></th><th></th><th>ĺ</th><th>USS</th><th>1000US\$</th><th>USS</th><th>1000US\$</th></dolj>	y>							ĺ	USS	1000US\$	USS	1000US\$
	<u>'</u> -		Actual		Target Unit	For	Wood	Another		r Wood		
D	Site	Damage	Regenerat	Regeneration Method	Stock	ln	đustry	Use	tr	dustry	Anol	her Use
Present Stand	Index	Grade	ion Arca		٠, أ		Volume	Volume	Unit	Appraised	Unit	Appraised
			ha	Target Period	m³/ha	%	m³	m³	Cost	value	Cost	value
Seed Stands												
Q.frainetto F1	3	Strong		Q.frainetto 120ys	7,360	42	3,091	4,269	200	618	13.9	59
Q.fraicer . F2	3	Strong		Q.frai ,cer 120ys	9,628	42	4,044	5,584	200	809	13.9	78
		Moderate	6.1	Q frai cer 120ys	2,158	42	907	1,252	200	181	13.9	17
	total		33.2		11,786		4,950	6,836		1,608		154
Q. spp. F3	1	Moderate		Q.ped . pet .,cer .120ys	1,176	61	718	459	200	144	13.9	6
	· 	Total	54.3	Y	20,323		8,759	11,564		2,370		220
Q.frainetto	2	Strong	<u> </u>	Q.frainetto								
FS .		Moderate	3.2	120ys	1,443	55	794	649	200	159	13.9	9
·	3	Strong	121.8		45,568	42	19,139	26,430	200	3,828	13.9	367
		Moderate	97.7		36,521	42 31	15,339	21,182	200	3,068	13.9	294
	4	Strong Moderate	119.8 94.6		36,287 28,664	31	11,249 8,886	25,038 19,778	200 200	2,250 1,777	13.9 13.9	348
	5		56.7		12,535	20	2,507	10,028	200	501	13.9	275 139
		Strong Moderate	67.5		14,906	20	2,981	11,925	200	596	13.9	166
Full 183	total	PIOCETUR	561.2	 	175,925	20	60,894	115,031	200	12,179	13.9	1,599
Q.frainetto	2	Strong		Q.frainetto	1,341	55	737	603	200	12,179	13.9	لالاقور الا
& cerris 16	١	Moderate	14.2	•	6,240	55	3,432	2,803	200	686	13.9	39
	3	Strong	80.9	4	28,712	42	12,059	16,653	200	2,412	13.9	231
		Moderate	283.4	•	100,589	42	42,247	58,342	200		13.9	811
1	4	Strong	162.2	4	46,238	31	14,334	31,904	200	2,867	13.9	443
	·	Moderate	328.3	4	93,551	31	29,001	64,550			13.9	897
	5	Strong	91.9		19,303	20	3,861	15,443	200	772	13.9	215
	:	Moderate	132.1		27,731	20	5,546	22,184	200	1,109	13.9	309
	total		1095.9		323,706		111,218	212,488		22,244	·	2,954
Quercus spp.	1	Strong	1.4	Q.robur petraea,	1,111	61	678	433	200	136	13.9	6
F7		Moderate	3.1	pedun "cerris	2,533	61	1,545	988	200	309	13.9	14
14.7	2	Strong	2.1	120ys	1,429	58	829	600	200	166	13.9	8
		Moderate	3.2		2,198	58	1,275	923	200	255	13.9	13
	3	Strong	21.0		12,031	53	6,377	5,655	200	1,275	13.9	79
		Moderate	30.4		16,933	53	8,974	7,958	200	1,795	13.9	111
	4	Strong	22.8		10,123	47	4,758	5,365	200	952	13.9	75
	<u> </u>	Moderate	23.1		10,279	47		5,448	_			76
	5	Strong	0.9	■ The second of	300	40			+		13.9	
	<u></u>	Moderate	7.4	-1	2,506		·	1,504	·		13.9	- 21
	totai		115.		59,443	├	30,389	29,054	 	6,078		404
Quercus &	2	Strong	 -	Q.robur petraea,		 _				<u> </u>	l	
Others F8		Moderate	1.7	4 *	1,348				_			- 3
	3	Strong	17.	-1	10,475							6
	4	Moderate	12.1	-	7,765							47
	*	Strong Moderate	4,	-1	7,139 2,304				+			49
	5	Strong	14.	-1	5,475					1	_	4.
1.5	_	Moderate	21.	~	8,172				_			6.
	total		87.		42,678		21,967			4,393		28
Robinia	2	Strong	+	2 Robinia Others 30ys	1,066		† • • • • • • • • • • • • • • • • • • •			1	12.4	200
above20ys F9	1	Moderate		1 Species for planting:Robinia 30ys	3,654				_			3
	3	Strong		3 Robinia Others 30ys	25,884	-			4	+		26
	L 3	Moderate		5 Species for planting Robinia 30ys	11,396					+		12
	4	Strong	70.	8 Robinia Others 30ys	12,815			1		4	12.4	150
	'	Moderate	47.	S Species for planting Robinia 30ys	7,268		145			3	12.4	- 8
	5	Strong	47.	8 Robinia Others 30ys	5,019	_		5,019		1 1 1	12.4	6
		Moderate	14.	5 Species for planting: Robinia 30ys				1,29			12.4	
3.2 3.3	total	100	357.	7	68,391		7,999	60,392	2	13.		74
Robinia	- 2	Strong	4	2 Robinia Others 30ys	1,399	30	420	7.	_	5	12.4	1
_		Moderate	0	5 Species for planting Robinia 30ys	127	27	3	9:	16.	3	12.4	
under20ys F10	-	Strong	48	5 Robinia Others 30ys	11,592	18	2,034	9,505	16.	3	12.4	11
under20ys F10	3				1,872	14	26	1,60	16.	5	12.4	2
under20ys F10	3	Moderate	9	5 Species for planting:Robinia 30ys	1,072	_						
under20ys F10	4	Moderate Strong		5 Species for planting Robinia 30ys 6 Robinia Others 30ys	8,435	-			_		12.4	ic
under20ys I-10	4	Strong Moderate	46 14	6 Robinia Others 30ys 9 Species for planting Robinia 30ys	8,435 2,020) 2	169	8,266 1,979	5 16.: 9 16.:	5	12.4	4
under20ys 140		Strong	46 14 75	6 Robinia Others 30ys	8,435 2,020 7,875) 2	169	8,260	5 16.: 9 16.: 5 16.:	5	12.4	2

<dolj count<="" th=""><th>ly></th><th>-</th><th></th><th></th><th></th><th></th><th></th><th>- 1</th><th>US\$</th><th>1000US\$</th><th>USS</th><th>1000US\$</th></dolj>	ly>	-						- 1	US\$	1000US\$	USS	1000US\$
Present Stand	Site	Damage	Regeneral	Regeneration Method	Target Unit Stock		r Wood dustry	Another Use	I	r Wood idustry	Ano	ther Use
: .	Index	Grade	ion Area ha	Target Period	m³/ha	%	Volume m³	Volume m³	Unit Cost	Appraised value	Unit Cost	Appraised value
Robinia	4	Strong		Q.cerils frai . 120ys								
above20ys F11	l	Moderate	1.8	Species for planting Q.ce.fr. 120ys	257	31	80	178	200	16	13.9	2
	total		1.8		257		80	178		16		2
Robinia	5	Strong	2.5	Q.cerris frai . 120ys	525	20	105	420	200	21	13.9	6
under20ys F12	l	Moderate		Species for planting:Q.ce.fr .120ys								
	total		2.5		525		105	420		21		6
Populus spp.	1	Strong	1.1	Q.robur others 120ys	971	61	596	381	200	119	13.9	5
F13	l	Mederate		Populus alba 30ys								
	2	Strong	4.1	Q.robur,others 120ys	3,071	59	1,812	1,259	200	362	13.9	18
÷		Moderate	0.7	Populus alba 30ys	280	23	64	216	16.0	1	10.6	7
	3	Strong	4.9	Q.robur,others 120ys	2,984	56	1,671	1,313	200	334	13.9	18
		Moderate	2.1	Populus alba 30ys	607	20	121	486	16.0	2	10.6	:
	4	Strong	7.0	Q.robur others 120ys	3,395	51	1,731	1,664	200	346	13.9	23
		Moderate	0.5	Populus alba 30ys	93	17	16	77	16.0	0	10.6	1
	5	Strong		Q.robur, others 120ys								
		Moderate	4.9	Populus alba 30ys	524			524	16.0		10.6	
	total		25.3	.:	11,931	1	6,012	5,919		1,165		78
		Total	2454.2		716,731		241,675	475,056		46,277		6,462
		Sum Total	3314.2		1,019,527	•	363,550	655,977		71,176		9,030
			<dolj cou<="" td=""><td>inty></td><td></td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td></dolj>	inty>					•			
By Planting Spe	cies		1936.5	Quercus	633,284		239,222	394,062		48,463		5,53
	1.11	100	563.9	Robinia	102,266		11,010	91,255		182		1,13
			8.2	Populus	1,504	Ī	202	1,302		3		1-
			2508.5	Total	737,054		250,434	486,620		48,648		6,687
			<total></total>			- 1	1.1					
By Planting Spe	cies	1. 1		Quercus	911,204		351,820			70,982		7,83
				Robinia	106,356		11,436		L	189		1,17
		4. 1.4		Populus	1,966		294		L	5		18
- P			3314.2	l lotal	1.019.527	1	363,550	655,977	1	71,176	1	9,030

Appendix F-32(1) Calculation of wood volume on each destination(Olt County)

•	\$					US\$	1000US\$	US\$	1000US\$
Reforestation	Species	Target	For Woo	i Industry	Another use	For Wood	Industry	Anoth	er use
area (ha)	Target ages	Volume m³	96	Volume m	Volume m ³	Unit price	Amount	Unit price	Amount
1.60	Populus spp.	462		92	370		1.5		3.9
1.00	30 years	288.750	20.000	57.500	231.250	16.0		10.6	
					1.5.5				
21.30	Robinia pseudoacacia	4,090		426	3,664	S 7	7.0		45.4
1.00	30 years	192.019	10.416	20.000	172.019	16.5		12.4	
)				11.5				
782.84	Quercus spp.	277,920		112,598	165,322		22,520.0		2,298.0
1.00	120 years	355.015	40.515	143.833	211.182	200.0		13.9	
	355m3+20m3								
1.00	140 years	375.015	43.515	163.186	211.829	200.0		13.9	
	377m3+10m3								
1.00	160 years	385.015	45.015	173.313	211.702	200.0		13.9	

Appendix F-32(2) Calculation of wood volume on each destination(Dolj County)

	en en en de la companya de la compa La companya de la co			100	*	US\$	1000US\$	US\$	1000US\$
Reforestation	Species	Target	For Woo	d Industry	Another use	For Wood	Industry	Anoth	er use
area (ha)	Target ages	Volume m ³	96	Volume m	Volume m ³	Unit price	Amount	Unit price	Amount
8.20	Populus spp.	1,504		202	1,302		3.2		13.8
1.00	30 years	183.415	13,431	24.634	158.780	16.0		10.6	
		* 1		1.75					
563.85	Robinia pseudoacacia	102,266		11,010	91,256		181.7		1,131.0
1.00	30 years	181.371	10.766	19.526	161.844	16.5		12.4	
1,936.45	Quercus spp.	633,284		239,222	394,062	10 mm 1 mm	47,844.0		5,477.0
1,00	120 years	327.033	37.775	123.536	203.497	200.0		13.9	
	327m³+20m³					200	. "	3 25	
1.00	140 years	347,033	40.775	141.502	205.531	200.0	12	13.9	
	347m³+10m³		11 May 2						
1.00	160 years	357.033	42.275	150.935	206.098	200.0		13.9	

Appendix F-33 Final desired growing stock

(m³/ha)

Species	Quercus frainetto planted	Quercus cerris planted	Quercus robur planted	Quercus robur coppices	Robinia pseudoacacia planted	Robinia pseudoacacia coppices	Populus alba planted
Final cutting age		120 years	120 years	100 years	30 years	30 years	30 years
Site quality							
I	530	533	888	531	428	351	527
11	451	439	749	444	333	270	400
Ш	374	350	609	354	239	186	289
IV	303	281	485	277	181	125	185
V	221	207	374	214	105	73	107

Reference: Tabele de productie pentru speciile

Appendix F-34 Portion of saw log for industry

(%)

							(70)
Species	Quercus frainetto planted	Quercus cerris planted	Quercus robur planted	Quercus robur coppices	Robinia pseudoacacia planted	Robinia pseudoacacia coppices	Populus alba planted
Final cutting age	120 years	120 years	120 years	100 years	30 years	30 years	30 years
Site quality	63	63	61	56	45	39	36
П	55	55	59	44	30	26	23
Ш	42	42	56	44	18	10	20
IV	31	31	51	28	2	2	17
v	20	20	45	22			

Reference: Tabele de sortare pentru arborete echine, pe clase de productie, pentru speciile

Appendix F-35 Estimated price of stumpage in future

(US\$/m³)

Species/ Destination	Saw log for industry	Fire wood, pulp wood
Quercus spp.	200.0	13.9
Robinia pseudoacacia	16.5	12.4
Populus alba	16.0	10.6

		and the second second second		(033/111)
		International level log	Production cost and	Stumpage price
	* * * * * * * * * * * * * * * * * * *	price (Germany, France)	exporting cost	
Quercus spp.	Saw log	300 -	100 =	200 US\$
		Domestic log price	Production cost	Stumpage price
Fire wood, pulp wood		16.1 -	2.2 =	13.9 US\$

Robinia		Domestic log price	Production cost	Stumpage price
pseudoacacia	Saw log	19.0 -	2.5 =	16.5 US\$
		Domestic log price	Production cost	Stumpage price
Fire wood, pulp wood		14.9 -	2.5 =	12.4 US\$

Populus		× 1	Domestic log price	Production cost	Stumpage price
alba		Saw log	18.0 -	2.0 =	16.0 US\$
	A 1		Domestic log price	Production cost	Stumpage price
	Fire wood,	pulp wood	12.6	2.0 =	10.6 US\$

Note:

Production cost in the stand was calculated; all of production cost divided by all of production volume on the summary table of the activities costs

Reference:

Present price of stumpage in 1998

	(US\$/m³)	observation
Quercus spp.	18	Stumpage mixed all kind of use
Robinia pseudoacacia	16	Same to above
Populus alba	14	Same to above

Appendix F-36 Calculation of Quantity of Machinery

1. Agricultural Tractor, 4WD type(For Wood production work)

Productivity of operation:

Quercus stand, 57m³/2 tractors

 $57\text{m}^3/2 \text{ tractors} \times 200 \text{ days} = 11,400\text{m}^3/\text{year} \cdot 2 \text{ tractors}$

Robinia stand, 66m³/2 tractors

66m³/2 tractors × 200 days = 13,200m³/year • 2 tractors

Populus stand, 96m³/2 tractors

96m³/2 tractors × 200 days = 19,200m³/year • 2 tractors

DOLJ County; Volume of Wood production:

Quercus stand, $285,251\text{m}^3 \div 7\text{years} = 40,750\text{m}^3/\text{year}$

 $40,750 \text{m}^3/\text{year} \div 11,400 \text{m}^3/\text{year} \cdot 2 \text{ tractors} = 7.15 \text{ tractors}$

Robinia stand, $47,844\text{m}^3 \div 7\text{years} = 6,841\text{m}^3/\text{year}$

 $6.841 \text{ m}^3/\text{year} \div 13.200 \text{ m}^3/\text{year} \cdot 2 \text{ tractors} = 1.04 \text{ tractors}$

Populus stand, $2,499\text{m}^3 \div 7\text{years} = 357\text{m}^3/\text{year}$

 $357\text{m}^3/\text{year} \div 19,200\text{m}^3/\text{year} \cdot 2 \text{ tractors} = 0.04 \text{ tractors}$

Total: 8.23 tractors ≒ 8 tractors

OLT County; Volume of Wood production:

Quercus stand, $145,096\text{m}^3 \div 7\text{years} = 20,728\text{m}^3/\text{year}$

20,728m³/year÷ 11,400m³/year•2 tractors = 3.64 tractors

Robinia stand, 1,413m³ : 7years=202m³/year

 $202\text{m}^3/\text{year} \div 13,200\text{m}^3/\text{year} \cdot 2 \text{ tractors} = 0.03 \text{ tractors}$

Populus stand, 80m³ ÷ 7years=11m³/year

 $11\text{m}^3/\text{year} \div 19,200\text{m}^3/\text{year} \cdot 2 \text{ tractors} = 0.001 \text{ tractors}$

Total: 3.67 tractors = 4 tractors

Total: 12 tractors,

52,000 US\$/tractor (Inclusive attachment)

Attachment: Skidder,

Grab for yarding

Maximum productivity by year:

 $57\text{m}^3/2 \text{ tractors} \times 260 \text{ days} = 14,820\text{m}^3/\text{year} \cdot 2 \text{ tractors}$

14,820m³/year·2 tractors×6 sets = 88,920/year

2. Chain saw (For Wood production work)

Productivity of operation:

Quercus stand, 57m³/9 saws

 $6.33 \text{m}^3/\text{saw} \times 200 \text{days} = 1.266 \text{m}^3/\text{year}$

Robinia stand, 66m³/12 saws

 $5.50 \text{m}^3/\text{saw} \times 200 \text{days} = 1,100 \text{m}^3/\text{year}$

Populus stand, 96m3/11saws

8.73m³/saw×200days= 1,746m³/year

DOLJ County; Volume of Wood production:

Quercus stand, $285,251\text{m}^3 \div 7\text{years} = 40,750\text{m}^3/\text{year}$

 $40,750 \text{m}^3/\text{year} \div 1,266 \text{m}^3/\text{year} = 32.19 \text{ saws}$

Robinia stand, 47,844m³ ÷ 7years = 6,841m³/year

 $6,841 \text{m}^3/\text{year} \div 1,100 \text{m}^3/\text{year} = 6.22 \text{ saws}$

Populus stand, 2,499m³: 7years=357m³/year

 $357\text{m}^3/\text{year} \div 1,746\text{m}^3/\text{year} = 0.20 \text{ saws}$

Total: 38.61 saws = 39 saws

<u>OLT County</u>; Volume of Wood production:

Quercus stand, $145,096\text{m}^3 \div 7\text{years} = 20,728\text{m}^3/\text{year}$

 $20,728\text{m}^3/\text{year} \div 1,266\text{m}^3/\text{year} = 16.37 \text{ saws}$

Robinia stand, $1,413\text{m}^3 \div 7\text{years} = 202\text{m}^3/\text{year}$

 $202\text{m}^3/\text{year} \div 1,100\text{m}^3/\text{year} = 0.18 \text{ saws}$

Populus stand, $80\text{m}^3 \div 7\text{years} = 11\text{m}^3/\text{year}$

 $11\text{m}^3/\text{year} \div 1,746\text{m}^3/\text{year} = 0.006 \text{ saws}$

Total: 16.56 saws = 17 saws

Total: $56 \text{ saws} \times 2 \text{ times of procurement (depreciation 4 years)} = 112 \text{ saws}$

608 US\$/saw

Maximum productivity by year: 6.33m³/saw×260days= 1,646m³/year

 $1,646 \text{m}^3/\text{year} \times 56 \text{ saws} = 92,165 \text{m}^3/\text{year}$

3. Mini Bach-hoe (For reforestation work)

Soil preparation at cut-over area of group-cutting,

Productivity of operation: 6.67 days/Hoe/ha

(Operation area: 50% of the actual regeneration area)

DOLJ County: Actual regeneration area 1,136.57 ha

 $1136.57 \text{ ha} \div 7 \text{years} = 162.37 \text{ ha/year}$

 $162.37 \text{ ha/year} \times 6.67 \text{days/ha} = 1,082.99 \text{ days}$

 $1,082.99 \text{ days} \div 160 \text{ days/year} = 6.77 \text{ Hoes} = 7 \text{ Hoes}$

OLT County: Actual regeneration area 437.50 ha

 $437.50 \text{ ha} \div 7\text{years} = 62.50 \text{ ha/year}$

62.50 ha/year × 6.67days/ha = 416.88 days

416.88 days ÷ 160days/year = 2.61 Hoes ÷ 3 Hoes

Total:

10 Mini Backhoes

47,500 US\$/Hoe

Maximum productivity by year:

 $260 days/year \div 6.67 days/ha = 38.98 ha$

38.98ha \times 10 hoes = 389.8ha

4. Cultivator (For reforestation work)

Weeding by scarifying between planted line

Productivity of operation:

At the Clear cut-over area: 2.11days/ha/cultivator, Using 60 cm wide type.

At the Group cut-over area: 2.08days/ha/cultivator, Using 30 cm wide type.

DOLJ County: Actual regeneration area:

(1) At the Clear cut-over area: Using 60 cm wide type.

Quercus stand 795.58 ha ÷ 7years=113.65 ha/year

 $113.65 \text{ ha/year} \times 2.11 \text{days/ha} = 239.81 \text{days}$

239.81days ÷ 40days/year = 6.00Culti.s

6.00Culti.s×6years (Repeating) =35.97Culti.s = 36 Cultivators

Robinia stand

 $406.90 \text{ ha} \div 7 \text{years} = 58.10 \text{ ha/year}$

 $58.10 \text{ ha/year} \times 2.11 \text{ days/ha} = 122.65 \text{ days}$

122.65days ÷ 40days/year = 3.07Culti.s

3.07Culti.s × 2 years (Repeating) = 6.13Culti.s = 6 Cultivators

Populus stand

 $8.20 \text{ ha} \div 1 \text{ year} = 8.20 \text{ ha/year}$

 $8.20 \text{ ha/year} \times 2.11 \text{days/ha} = 17.30 \text{days}$

17.30days ÷ 40days/year = 0.43Culti.s

0.43Culti.s × 3 years (Repeating) = 1.30Culti.s = 1 Cultivator

Total: 43 Cultivators 737 US\$/Cultivator

(2) At the Group cut-over area: Using 30 cm wide type.

Quercus stand

1,136.57 ha \div 7years = 162.37 ha/year

 $162.37 \text{ ha/year} \times 2.08 \text{days/ha} = 337.73 \text{days}$

337.73days ÷ 40days/year = 8.44Culti.s

8.44Culti.s×6years (Repeating) = 50.66Culti.s = 51 Cultivators

567 US\$/Cultivator

Total for DOLJ 94 Cultivators

OLT County; Actual regeneration area:

(1) At the Clear cut-over area: Using 60 cm wide type.

Ouercus stand 343.44 ha ÷ 7 years = 49.06 ha/year

 $49.06 \text{ ha/year} \times 2.11 \text{days/ha} = 103.52 \text{days}$

103.52days ÷ 40days/year = 2.59Culti.s

2.59Culti.s×6years (Repeating) = 15.53Culti.s = 16 Cultivators

Robinia stand 11.70 ha ÷ 7years = 1.67 ha/year

1.67 ha/year × 2.11days/ha=3.53days 3.53days ÷ 40days/year= 0.09Culti.s

0.09Culti.s×2years (Repeating) = 0.18Culti.s = 0 Cultivator

Populus stand 1.60 ha: 1 years = 1.60 ha/year

1.60 ha/year × 2.11days/ha=3.38days 3.38days ÷ 40days/year= 0.08Culti.s

0.08Culti.s × 3 years (Repeating) = 0.25Culti.s = 1 Cultivator

Total: 17 Cultivators 737 US\$/Cultivator

(2) At the Group cut-over area: Using 30 cm wide type.

Quercus stand $437.50 \text{ ha} \div 7\text{years} = 62.50 \text{ ha/year}$

 $62.50 \text{ ha/year} \times 2.08 \text{days/ha} = 130.00 \text{days}$

130.00days ÷ 40days/year = 3.25Culti.s

3.25Culti.s×6years (Repeating) = 19.50Culti.s = 20 Cultivators

567 US\$/Cultivators

Total for OLT 37 Cultivators

Total for 2 counties

131 Cultivators

5. Agricultural tractor, 4WD type (For drainage & infiltration work)

Establish lineal canal by 12.5 m of distance. 800 m/ha.

Tractor of 4WD type with Disc plough or Carried plough.

Velocity of operation: 2,000 m/hour, 1,000 m/hour on both ways

Productivity of operation:

7.5 ha/day. (1,000 m/hour \times 6hours/day \div 800 m/ha)

DOLJ County; Remaining area of damaged forest 3,383.10 ha

Prevention forest 2,491.70 ha

Total 5,874.80 ha \div 4years = 1,468.70 ha/year 1,468.70 ha/year \div 7.5 ha/day = 195.83days

195.83days ÷ 200days/year = 0.98 tractors = 1 tractor

OLT County; Remaining area of damaged forest 1.948,10 ha

Prevention forest 1.773,90 ha

Total 3,722.00 ha÷ 4years=930.50 ha/year

930.50 ha/year \div 7.5 ha/day = 124.07days

124.07days \div 200days/year = 0.62 tractors \div 1

Total for 2 counties; 2 tractors, 53,000 US\$/tractor (Inclusive attachments)

Appendix F-37 Benefits of forest functions other than wood production

All of forest area

(US\$ 1000)

	Forest	By-produ	ıcts		Hunting			Apicultu	re	Total
Sector	OLT	DOLJ	Total	OLT	DOIT	Total	OLT	DOLJ	Total	
RNP	251.6	68.2	319.8	169.5	181.8	351.3	31.2	4.5	35.7	706.8
Private	0	0	0	12.3	16.7	29	27.4	228.0	255.4	284.4
Total	251.6	68.2	319.8	181.8	198.5	380.3	58.6	232.5	291.1	991.2

Target forest area (Damaged forest & prevention forest)

(US\$ 1000)

	Forest	By-produ	icts		Hunting			Apicultu	re	Total
Sector	OLT	DOLJ	Total	OLT	DOLJ	Total	OLT	DOLJ	Total	
RNP	24.1	8.7	32.8	16.2	23.1	39.4	3.0	0.6	3.6	75.7
Private	0.0	0.0	0.0	1.2	2.1	3.3	2.6	29.0	31.6	34.9
Total	24.1	8.7	32.8	17.4	25.2	42.7	5.6	29.6	35.2	110.6

					•					
- 1				, , , , , , , ,						
	Dortion	n cocord	13 71467	11 4750/	0.00001	10 31467	1 4 4 6	O FOECE	13 71 101	
	Portion	I 9.363761	12.714%	1.423761	9.30370	12.714%		9.585%	12.714%	
	- 0	- 10 00 11	7 - 1 1 7 1 7 1					7		

			OLT	DOLJ	Total
All forest ar	ea	ha	48,400.0	69,100.0	117,500.0
Target fores	t area			100	
Damaged fores	!	ha	2,865.4	6,293.7	9,159.1
Prevention for	st	ha	1,773.9	2,491.7	4,265.6
Total		ha	 4,639.3	8,785.4	13,424.7
Portion		. :	0.09585	0.12714	0.11425

Appendix F-38 Calculation of Soil Conservation Effect

1. Volume of sediment in discharge

Target forest stand area = 201.4 ha

Volume of sediment in discharge per ha/year = 87.1 ton

All of sediment volume = $201.4 \text{ ha} \times 87.1 \text{ ton} = 17,541.94 \text{ ton}$

 $17,541.94 \text{ ton } / 1.8 = 9,745.5 \text{ m}^3$

Specific gravity of soil: 1.8 ton/m³

2. Establishment of the condition

The area of target forest stand shall be formed a rectangle of 1,000m wide by 2,000m length.

The inclination angle of stand shall be 12°.

The sediment shall be stop at the edge of low side, 1,000m wide.

The sediment shall be stable by the grade of $6^{\circ}(1/2)$ of the initial angle)

3. Efficient height of sediment retaining wall

Retaining height	Retaining length	Volume of retaining sediment
1.0 m	9.31 m	$1.0 \times 9.31 \times 1/2 \times 1,000 = 4,655 \text{ m}^3$
1.5 m	13.96 m	$1.5 \times 13.96 \times 1/2 \times 1,000 = 10,470 \mathrm{m}^3$
2.0 m	18.61 m	$2.0 \times 18.61 \times 1/2 \times 1,000 = 18,610 \text{ m}^3$

It shall be decided the height of retaining wall by enough coefficient of safety

The coefficient of safety = $18,610\text{m}^3/9,745.5\text{m}^3 = 1.91$ Therefore 2.0 m of height is decided for the efficient height

4. The structure of the sediment retaining wall

Height of wall	3.0 m (upper ground: 2.0 m, under ground 1.0	m)
Thickness of top of wall	0.3 m	
Gradient of down stream side	0.3	
Gradient of up stream side	0.05	4.1

5. Volume of the concrete for the wall construction

Basal area	$(0.3m+1.35m)/2\times3.0m = 2.47 m$	2
Volume	$2.47 \text{ m}^2 \times 1.000 \text{m} = 2.470 \text{ m}^3$	

6. Cost of work per 1m³ of the wall

 $2,470\text{m}^3 \times 50,000\text{JP YEN/m}^3 = 123,500,000\text{JP YEN}$

Cost of materials = 44,000JP YEN 44,000JP YEN×0.596= 26,222JP YEN

Cost of lobar = 6,000JP YEN 6,000×0.0289= 173JP YEN

Total = 26,395JP YE126,395JP YEN / 120 = 219.96 US\$/m³

2,470m 3×219.96 US $$/m^3 = 543,312$ US\$

7. Cost of work per 1m³ of sediment

543,312 US\$/9,745.5m³ = 55.75 US\$/m³

Note: Comparison of work cost (US\$)

:		Japan	Romania	Ratio	Japan(A)	Romania(B	B/A
Cement	US\$/kg	0.14	0.16	235 kg			!
Gravel	US\$/m3	32.99	6.90	1.41 m ³			
Total mate	erials			1 4	79.411	47.329	59.60%
Wages	US\$/day	145.83	4.21				2.89%

Appendix F-39 Plantation Area by Operation Year, Forest Management Type, Damage Grade

<Olt County> (ha)

Con County									
Forest				Ope	eration Ye	ear		<u>.</u>	
Management	Damage Grade								Total
Туре	-	4	5	6	7	8	9	10	
F1	Strong								
F2	Strong								
rz ,	Moderate								
F3	Moderate								
F5	Strong	6.00	7.00	6.50	10.00	26.00	47.00	40.22	142.72
гэ	Moderate	2.00	2.00	2.00	4.50	67.00	80.00	53.35	210.85
176	Strong	4.00	4.00	4.00	6.00	21.00	23.00	18.48	80.48
F6	Moderate	3.00	3.00	3.00	4.00	38.00	67.00	60.55	178.55
F7	Strong	1.00	5.00	7.00	7.80				20.80
F 7	Moderate	1.00	3.00	9.00	3.45	6.00			22.45
F8	Strong	7.00	17.00	27.00	41.00	7.44			99.44
1.9	Moderate	3.00	4.00	12.00	6.65				25.65
1:0	Strong				3.80				3.80
F9	Moderate		1.00	1.00	1.50				3.50
F10	Strong	1. 4. 4.	1.00	2.00	3.00		1	•	6.00
FIU	Moderate	1.00	2.00	3.00	2.00				8.00
F11	Strong			1.90					1.90
rii	Moderate		•						
F12	Strong				1		26.5		
F13	Strong								
F13	Moderate					1.60			1.60
	Strong	18,00	34.00	48.40	71.60	54.44	70.00	58.70	355.14
Total	Moderate	10.00	15.00	30.00	22.10	112.60	147.00	113.90	450.60
	Total	28.00	49.00	78.40	93.70	167.04	217.00	172.60	805.74

<Dolj County> (ha)

Forest			3	Ор	cration Y	еаг			
Management Type	Damage Grade	4	5	6	7	8	- 9	10	Total
F1	Strong		1 1 1			19.68			19.68
F2	Strong					27.12			27.12
I IZ	Moderate	1 .					6.08		6.08
F3	Moderate		1.44						1.44
F5	Strong	14.00	14.00	14.00	20.00	54.00	98.00	84.32	298.32
13	Moderate	3.00	3.00	3.00	5.50	83.00	100.00	65.40	262.90
126	Strong	16.00	16.00	16.00	24.00	89.00	97.00	80.08	338.08
F6	Moderate	13.00	13.00	12.00	16.00	162.00	283.00	258.80	757.80
F7	Strong	4.00	10.00	18.00	16.72	1			48.72
*	Moderate	4.00	7.00	26.00	11.20	19.00			67.20
F8	Strong	3.00	8.00	13.00	19.00	3.56			46.56
10	Moderate	5,00	6.00	18.00	12.15	:			41.15
F9	Strong	20.00	35.00	60.00	115.10				230.10
	Moderate	10.00	19.00	44.00	54.60			1 1	127.60
F10	Strong	10.00	24.00	58.00	82.30				174.30
FIU	Moderate	4.00	8.00	13.00	6.85	+ 1			31.85
F11	Strong						1 1		
L	Moderate			1.80				:	1.80
F12	Strong			2.50					2.50
F13	Strong				17.10				17.10
F13	Moderate	1.372				8.20		100	8.20
1 1	Strong	67.00	107.00	181.50	294.22	193.36	195.00	164.40	1,202.48
Total	Moderate	39.00	57.44	117.80	106.30		389.08		1,306.02
	Total	106.00	164.44	299.30	400.52	465.56	584.08	488.60	2,508.50

(Planting Stock Number)

\T0.7\									
				Operation Year	Year				Total
Tree Species	4	5	9	7	S	6	10	11	
	200	DSA OCT	171 043	174.705	1,199,242	1.731.215	1,445,206	229,140	5,120,107
Q. frametto	70,177	00-00-1	2	2			Creation .	202 102	040 037 7
Ocerris	90,842	119,712	156,292	166,830	916,607	1,440,414	1,368,0491	223,103	V40.104.4
Orobur	50,505	113,279	263,993	304,524	128,344	15,435			876,078
Operation	8176	22,686	48,581	45,364	20,647	2.670			149,366
Oredunculiflora	7,709	19,460	37,379	36,917	14,174	1.628			117,268
Onercon war	256.652	395,616	628,187	728,340	2,279,015	3,191,362	2,813,255	452,242	10,744,668
Graning suppliers	12,001	21,669	46.338	59,073	5,867				144,949
Tille alectedialities	7.709	14,919	33,795	33,959	8,142				98,524
Title printings	12.001	12,001	11,585	16,335	123,978	180,383	159,359		515,641
rytus pyrasier	157.500	378,000	764,500	1272,350	406,780				2,979,130
Claditachia triacarthos	15.000	30,000	000'09	102,100					207,100
Floanants moustifplin	7.500	15,000	30,000	51,050					103,550
Popular spp.					6,125	1,225			7,350
Assistant Trees	144.137	196,376	325,427	362,808	1,146,542	1,469,900	1,209,955		4,855,144
Total	612,500	1,063,581	1,899,832	2,626,014	3,976,450	4,842,869	4,182,569	452,242	19,656,057
							Contract Posts Comments	210 010	

Note: Assistant trees, Acer tataricum, Acer campestre, Francis cerasifera, Fraxinus ornus, Crataegus monogyna, Cornus sanguinea, Ligustrum vulgare, Rosa cunina, etc.

Remark :The Above table does not include data of Forest Mantle Replantation.

Remark: Inclusive for replantation

<Nursery Stock for Forest Mantle of Damaged Forest>

| Species | Spec

Remark: Inclusive for replantation

Nursery Stock for Forest Mantle of Prevention Forest>

Remark: Inclusive for replantation

Appendix F-40(1) Required Number of Nursery Stock by Species and Operation Year

<olt county="" damaged="" for="" forest=""></olt>	orest>							(Planting	(Planting Stock Number)
				Operation Year	ı Year				Total
Tree Species	4	5	9	7	s	6	10	11	
Conjunger	28.970	37,431	37.644	58,219	401,793	560,209	495,259	979.77	1,742,390
) ranceso	17.585	24.903	35.784	36,206	161,028	269,381	258,793	42,224	845,903
Coccessor	19,685	50,442	104,011	108,578	42,850	4,984			330,550
Contraction	3.800	9.544	19,575	20,787	7,929	268			62,534
Sychaeu Doeduneulistora	3,459	8,184	16,508	18,467	6,327	647			53,592
Spraint proping	6.234	12,401	24,403	27,412	3,968				74,418
Tila alabahullas	3,459	7,493	15,010	15,465	3,234				44,660
And the second s	2.317	2,317	2317	3,267	21,435	34,053	30,160		95,866
Dobing nonadoutous	1.000	9.150	17,500	40,250	13,860				81,760
Challechia eriacanthos		2005	1,000	3,400					4,900
Flancours annishifolia		250	200	1,700					2,450
Panulus son					1,000	200			1,200
Assistant Trees	42,741	586,89	116,009	125,122	303,782	399,511	315,501		1,371,651
"The sail	120.250	231.600	390.261	458,872	967.207	1,314,768	1,099,712	120,203	4,711,873

Remerk: The Above table does not include data of Forest Mantle Replantation.

Remark: Inclusive for replantation

,								_	
C E				Operation Year	Year				Total
Tree Species	4	5	9	7	8	6	10	11	
O frainetto	807.08	83,049	84,299	116,486	797.450	1,126,119	949,947	151,160	3,377,718
Constant	73.257	94,809	120,508	130,624	755,579	1,171,033	1,109,256	180,879	3,635,946
Crobur	30,820	62,836	159,982	195,946	35,494	10,450			545,528
O petrorea	5,617	13,141	29,006	24,577	12,718	1,773			86,833
O.pedunculifloru	4,250	11,276	20,870	18,450	7,847	585			63,676
Frazinus excelsior	5,767	9,268	21,935	31,662	668'1				70,531
Tilia platvolivilos	4,250	7,426	18,785	18,494	4,908				53,863
Poems poraster	9,684	9,684	9.268	13,068	102,543	146,330	129,199		419,776
Robinia exendoacacia	156,500	368,850	747,000	1,232,100	392,920				2,897,370
Gladitychia triacanthos	15,000	29,500	29,000	98.700					202,200
Claegenus angustifolia	7,500	14,750	29,500	49,350					101,100
Populus spo.					5,125	1,025			6,150
Assistant Trees	101,396	127,391	209,418	237,686	842,761	1,070,389	894,454	-	3,483,493
Total	050 200	921 081	1 500 571	2167142	3 000 243	3.528.101	3.082.856	332,039	14,944,184

Remark: The Above table does not include data of Forest Mantle Replantation.

Remark: Inclusive for replantation

C) m ന ന c1 C) 'n 'n ന Appendix.F-41 Index Sheet for Thematic Map Ö N 4 Ç1 ന 26 N ď 'n m N 63

	調査実施体制
선생님이 되는 사람이 되는 사람들은 점점 하다면 하다.	
경화 문장으로 보고 무슨데 얼마 하는 데 이 나는 것이다.	
병사님은 불분들이 있다면 전기하는 이 마지의 열린 하면이 된	
이렇게 얼마만큼 아이지를 얼굴하는 것이 보다는데 이네요?	
승규들의 발생님은 그리고 있는 그렇게 하는 것이 그렇게 하는 것이	
그는 그를 맞춰 일은 호텔을 받았다면 그렇게 된 그림은 그 그는	
무슨 일이 살아온 사람이 사용할 수 있는데 그 이번 살을 보고 있다.	
함께 생활하는 보고 보이를 받는데 하는 사람이 하고 있다. 나를 모	
넓어 하는 그 이번 여러 보고 하는 아이들이 모르겠다. 이다.	
근임 문에 없을일 때 아니라는 사람은 소리로 가 들어 된다면 하는데	
되었습니 정말이 하는데 이 맛있다. 그렇게 그 있는 것이 없는 것이다.	
이 사람들은 경기 가능하는 이 사람이 되었다. 그리고 그는 것	
강물 중심한 기를 보고 있다. 기계 사람들은 말로 하는데 그림을 다고	
[전체기소리] 의한일 전원하는데 제공하고요. (1) 전기 (B) 하는	본 경기가 되는 사람들은 사람이 하는
말했다. 이번에도 마음이다. 아이를 보는 아이를 속 하는 말하는 다	
한 점이 사람들이 일 사람이 하는 것 같은 것 같아 되었다면 없는데 없었다.	
의 발생되었다고 없이 한 일로 그런 그는 글로 살을 하는 것을 모른	
수는 하고만 하게 들을 하기 하다. 그는 하는 이 이 하는 것 같은 것을 본 것이다.	
중요 그리 사람 시민들에게 들었다고 이용한 경기를 가지 않았다.	
그는 소설을 가능한 점점을 하시는 하시는 회에 가장 그는 그래 다	
일하는 회원 회사 사람은 학교에 받았다. 한 경험에 하는 생님 없는	
그는 경우 시간 하는 말을 하는 것을 하는 아내리 하는 것이다.	
보고 있다면 하는 경험 사고 하는 경우는 모든 생활이 되었다.	오늘 되고 있었다면 하는 중에 다른 일이 됐다.
홍말 본 교육하실 보통하다 하다 시간 사람이 가면서 다	
공동, 보면 말만 되어 들는 이름이 되어 있는 그는 이름이었다.	
강물류를 하면 살은 물 있다. 이동, 이 경영하는 이 제일을 받았	
: 현실 10년 1월 14일 전 한 일본 10년 12일 전 12일	
이 됐다. 그래 일하는 그렇는데 맛이 된다. 이 같은 그릇으로 들었다.	

調査実施体制

(1) 調査団の派遣

1) 第 1 次現地調查 (IC/R 説明·協議、資料収集、概況調查)

<u>, </u>		MARKE SELLINGEN PAULONS TELL
担当	氏 名	調查期間
	竹下 敬司	平成9年9月20日 ~ 平成9年10月 4日 15日間
財務経済分析	小宮 忠義	平成9年9月21日 ~ 平成9年10月10日 20日間
社会経済	阿部 由美子	平成9年9月27日 ~ 平成9年10月16日 20日間
	伊藤 重右衛門	平成9年9月21日 ~ 平成9年10月10日 20日間
森林造成/育苗	山垣 與三	平成9年9月21日 ~ 平成9年10月10日 20日間
森林病虫害	遠田 暢男	平成9年9月21日 ~ 平成9年10月10日 20日間
上壌	高遠 宏	平成9年9月27日 ~ 平成9年10月10日 14日間
気象/森林水文	福田 寿	平成9年9月27日 ~ 平成9年10月16日 20日間
森林調查	鎌滝 晋	平成9年9月27日 ~ 平成9年10月10日 14日間
森林経営	櫻井 彰人	平成9年9月20日 ~ 平成9年10月 9日 20日間
衛星データ解析	細田 秀人	平成9年9月21日 ~ 平成9年10月10日 20日間
/空中写真撮影		
監督		
業務調整	山崎 岳	平成9年9月20日 ~ 平成9年10月16日 27日間

2) 第 2 次現地調査 (PR/R 説明·協議)

担当	氏 名	調査期間
	小宮 忠義	平成10年3月1日 ~ 平成10年3月10日 10日間
森林生態/環境	伊藤 重右衛門	平成10年3月1日 ~ 平成10年3月10日 10日間
土壌	高遠 宏	平成10年3月1日 ~ 平成10年3月10日 10日間

3) 第 3 次現地調查 (現地調査)

2) 31 2 9(-50) E Ha	1五 (死心阴五)	the state of the s		
担当	氏 名	調	査期	
	竹下 敬司	平成10年6月 6日 ~	平成10年7月10日	35日間
	小宮。忠義	平成10年6月29日 ~	平成10年8月12日	45日間
	阿部 由美子	平成10年6月29日 ~	平成10年8月12日	45日間
	伊藤 重右衛門	平成10年6月14日 ~	平成10年8月12日	60日間
森林造成/育苗	山垣 與三	平成10年5月24日 ~	平成10年6月22日	30日間
		平成10年9月29日 ~	平成10年10月18日	20日間
	遠田 暢男	平成10年5月24日 ~	平成10年7月12日	50日間
	高遠 宏	平成10年6月14日 ~	平成10年8月23日	71日間
	福田 寿	平成10年5月24日 ~	平成10年7月22日	60日間
	鎌滝 晋	平成10年6月28日 ~	平成10年9月 6日	71日間
	櫻井 彰人	平成10年6月 6日 ~	平成10年8月 9日	65日間
衛星データ解析	細田 秀人	平成10年5月30日 ~	平成10年7月18日	50日間
/空中写真撮影		平成10年9月16日 ~	平成10年10月14日	19日間
監督				
業務調整	早川 清人	平成10年5月 9日 ~	平成10年6月 7日	30日間

4) 第 4 次現地調査 (IT/R 説明·協議)

ĺ	担当	氏 名	調查期間
	総括/森林保全	竹下 敬司	平成11年2月21日 ~ 平成11年2月28日 8日間
	財務経済分析	小宮 忠義	平成11年2月21日 ~ 平成11年2月28日 8日間
1	森林生態/環境	伊藤 重右衛門	平成11年2月21日 ~ 平成11年2月28日 8日間

5) 第5次現地調查 (現地調查)

担 哥	氏 名	調査期間
総括/森林保全	竹下 敬司	平成11年6月 3日 ~ 平成11年6月27日 25日間
財務経済分析	小宮:忠義	平成11年5月31日 ~ 平成11年6月27日 28日間
森林生態/環境	伊藤 重右衛門	平成11年5月31日 ~ 平成11年6月27日 28日間
森林造成/育苗	山垣 與三	平成11年5月31日 ~ 平成11年6月27日 28日間
気象/森林水文	福田 寿	平成11年5月27日 ~ 平成11年6月27日 32日間
森林調査	鎌滝 晋	平成11年5月18日 ~ 平成11年6月27日 41日間
森林経営	櫻井 彰人	平成11年5月31日 ~ 平成11年6月27日 28日間

6) 第6次現地調查 (DF/R 説明·協議)

担当	氏 名	調査期間
総括/森林保全	竹下 敬司	平成11年10月31日 ~ 平成11年11月7日 8日間
財務経済分析	小宮 忠義	平成11年10月31日 ~ 平成11年11月7日 8日間
森林経営	櫻井 彰人	平成11年10月31日 ~ 平成11年11月7日 8日間

(2) 作業監理委員会

1) 第 1 次現地調査 (IC/R 説明·協議)

1) 70 1 2 4 2 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	14 TH . (10) 11 100 77	233 1247
担当	氏名	調査期間
<u> </u>		
造林	溝口 岳男	平成9年9月21日 ~ 平成9年10月3日 13日間
業務調整	中山 泰德	平成9年9月21日 ~ 平成9年10月3日 13日間

2) 第 2 次現地調査 (PR/R 説明·協議)

担当	氏名	調査期間	
造林	溝口 岳男	平成10年3月1日 ~ 平成10年	F3月9日 9日間
業務調整	勝田 幸秀	平成10年3月1日 ~ 平成10年	F3月9日 9日間

3) 第 4 次現地調查 (IT/R 説明·協議)

担当	氏 名	調査期間
業務調整	中山 泰徳	平成11年2月21日 ~ 平成11年2月28日 8日間

4) 第6次現地調查 (DF/R 説明·協議)

担当	氏 名	調査期間	
リーダー	小原 基文	平成11年10月31日 ~ 平成11年11月7日	8日間
森林生態/森林	池田 武文	平成11年10月31日 ~ 平成11年11月7日	8日間
保護			
業務調整	徳田 小矢子	平成11年10月31日 ~ 平成11年11月7日	8日間

(3) カウンターパート

担 当	氏 名	所属	調査団員
		<u> </u>	
総括/森林保全	Mr. Ovidiu Badea	ICAS	竹下 敬司
財務経済分析	Mrs. Dragoi Simona	ICAS	小宮 忠義
社会経済	Mrs. Dragoi Simona	ICAS	阿部 由美子
	Mr. Viorel Blujdea	ICAS	
森林生態/環境	Mr. Iovu Adrian Biris	ICAS	伊藤 重右衛門
	Mr. Laurentiu Popovici	ICAS	
森林造成/育苗	Mr. Laurentiu Popovici	ICAS	山垣 興三
	Mr. Simion Dan-Robert	Forest Branch	·
		Targoviste	
森林病虫害	Mr. Netoiu Constantin	ICAS Craiova	遠田 暢男
	Mr. Dragos Mihai	RNP	
土壌	Dr. Nicolae Geambasu	ICAS	高遠 宏
	Dr. Constantin Rosu	ICAS	
	Mr. Florin Donescu	ICAS	
気象/森林水文	Dr. Constantin Rosu	ICAS	福田寿
	Mr. Ilie Cojocaru	Forest Branch	
		Craiova	
	Mr. Netoiu Constantin	ICAS Craiova	
森林調査	Mr. Gheorghe Marin	ICAS	鎌滝 晋
	Mr. Vladimir Gancz	ICAS	
森林経営	Mr. Gheorghe Marin	ICAS	櫻井 彰人