

cm, depth: 20 - 25 cm) and kept inside a mist house, many shoots appear from the cut ends and sides of the logs.

- The cuttings are prepared to a length of 15 cm.
- Cuttings from prepared logs: 10 cuttings are harvested from one log. Ten logs are produced from each candidate tree. A total of 20,000 cuttings are produced from 40 stands ( $10 \times 10 \times 5 \times 40 = 20,000$ ).
- Cuttings from coppiced shoots
  - o *Q. frainetto* : 500 cuttings per stand to produce 20,000 cuttings from 40 stands
  - o *R. pseudoacacia* : 500 cuttings per stand to produce 9,000 cuttings from 18 stands
- The hormone treatment of the cuttings and control of the mist houses follow the relevant examples in the cutting test.
- The mist houses will require the following:
  - o Hydroponic container management area: four containers per 10 logs from each candidate tree, 20 containers per one site, 40 sites:  $20 \times 40 = 800$  containers, nine containers per  $m^2$ ,  $800 \div 9 = 90 m^2$
  - o Required number of cuttings from coppiced shoots:  $20,000 + 9,000 = 29,000$
  - o Management capacity per house: 22,000 cuttings  $29,000 - 22,000 = 7,000$
  - o One house to manage 22,000 cuttings and another to manage 7,000 cuttings and hydroponic containers: two mist houses required

b) Yield of Rooted Cuttings

The following quantities of rooted cuttings are expected to be obtained from the initially produced cuttings.

<i>Q. frainetto</i>	- hydroponics	3,000 for test forests 3,000 for seed orchards
	- coppiced shoots	3,000 for test forests 3,000 for seed orchards
<i>R. pseudoacacia</i>	- coppiced shoots	1,350 for test forests 1,350 for seed orchards

c) Breeding Calendar of Rooted Cuttings

< First Year >

- Mid-April : preparation of hydroponic logs
- Late April : commencement of hydroponics
- Late May : planting of cuttings from hydroponics (*Q. frainetto*) and from coppiced shoots (*Q. frainetto* and *R. pseudoacacia*) in the mist house

Late September-Early October : transplanting of rooted cuttings from the mist house to the outside nursery to consolidate the roots and acclimatise

< Second Year > : continued acclimatisation in the outside nursery

< Third Year >

April : delivery of planting stock to the test forest-cum-scion gardens and seed orchards

### 3) Testing of Resistance

#### a) Securing of Sufficient Quantity of Planting Stock for Testing

For the establishment of a test forest, 15 rooted cuttings per individual tree (group of three cuttings x five times) are selected from among those rooted cuttings in the process described in 2) above. Cuttings with excellent height growth and a well-developed root system are selected from among both types of cuttings obtained from hydroponics and coppiced shoots.

#### b) Establishment of Test Forests

*Q. frainetto*: one each in Olt and Dolj Counties

##### - Olt County

Selection of a moderately damaged stand in the area of the Bals Forest Range Office and planting of rooted resistant cuttings of the candidate trees selected from 11 sites.

Number of rooted cuttings:  $11 \times 5 \times 15 = 815$

Test forest area:  $815 \div 6,667 = 0.13$  ha

##### - Dolj County

Selection of a moderately damaged stand in the area of the Craiova Forest Range Office and planting of the rooted resistant cuttings of the candidate trees selected from 29 sites.

Number of rooted cuttings:  $29 \times 5 \times 15 = 2,175$

Test forest area:  $2,175 \div 6,667 = 0.33$  ha

*R. pseudoacacia*

Selection of a moderately damaged stand in the area of the former Apele Vii Forest Range Office in Dolj County and planting of rooted resistant cuttings of the candidate trees selected from 18 sites in two counties.

Number of rooted cuttings:  $18 \times 5 \times 15 = 1,350$

Test forest area:  $1,350 \div 6,667 = 0.2$  ha

#### c) Test Period

The period to test the resistance is 10 years.

#### 4) Establishment of Seed Orchards

Sites showing relatively good environmental conditions as forest land should be selected as seed orchard sites. The establishment of seed orchards will commence at the same time as the establishment of test forests. As a result of the resistance test, some of the clones planted at seed orchards will be rejected, opening the stand. In view of this likelihood, the planting density will be higher than the standard planting density for the establishment of seed orchards and will be 3,000 rooted cuttings per ha for the present purposes.

##### *Q. frainetto*

The establishment of a seed orchard will be attempted at a weakly damaged site in the area of the Bals Forest Range Office in Olt County. Some 3,000 rooted resistant cuttings of the candidate trees selected from 40 sites in two counties will be planted.

Seed orchard area:  $3,000 \div 3,000 = 1$  ha

$1 + 0.1 = 1.1$  ha (0.1 ha for the buffer zone forest)

(0.1 ha is the area of buffer zone forest which consists of two lines of planted trees around the seed orchard to shut out adverse influences from outside and to protect the genetic character of the seed orchard. The planting species will be *Salix alba*.)

##### *R. pseudoacacia*

The establishment of a seed orchard will be attempted at a weakly damaged site in the area of the former Apele Vii Forest Range Office in Dolj County. Some 1,350 rooted resistant cuttings of the candidate trees selected from 18 sites in two counties will be planted.

Seed orchard area:  $1,350 \div 3,000 = 0.45$  ha

$0.45 + 0.05 = 0.5$  ha (0.05 ha for the buffer zone forest)

#### 5) Management of Test Forests and Seed Orchards

Apart from such normal maintenance work as weeding and climber cutting, there are several important points which must be followed to ensure the strict management of test forests and seed orchards as described below.

##### a) Management of Test Forests

As the test forests will also act as scion gardens, individual trees which are judged to show low resistance will be removed by means of improvement cutting. During the test period of 10 years, a survey on the decline of planted clones will be conducted and those with a lower degree of decline will be established as resistant clones. Cuttings for reforestation can be collected from the test forest-cum-scion garden after 10 years. The utmost care must be taken not to damaging the individuals to be

collected.

b) Management of Seed Orchards

The planned seed orchards can be considered as a type of test forests. In addition to the data obtained from the separately established test forests, the resistance of each individual planted at these seed orchards will be surveyed for a period of 10 years after their creation to obtain reference data to establish resistant clones. Those individuals judged to have low resistance should be removed by means of improvement cutting to ensure the development of healthy seed orchards. Fertilizer control is very important for seed stands. The application of a nitrogenous fertilizer, such as fowl droppings, should prove effective.

6) Annual Work Volume and Cost

The annual work and cost of developing a breeding technique for resistant trees are shown in Table 3 and Table 4.

Table 3 The Annual Work Plan and the Cost of Developing a Breeding Technique for resistant Trees

Planning Items	Annual Work																							Cost (US\$)
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
- Selection of Resistant Candidate Trees	↔																							1,740
- Propagation of Resistant Planting Stock	←	→																						212,345
- Testing of Resistance (Establishment of Test Forests-cum-Scion Gardens)				←	→								→											1,290
- Establishment of Seed stands				←	→																		→	1,933

Note: 1) Planning Volume

- Selection of candidate trees: *Q.frainetto* = 40 sites, *R.pseudoacacia* = 8 sites, five trees selected per site
  - Propagation of resistant planting stock: *Q.frainetto* = 3,000 from hydroponics, 3,000 from coppiced shoots; *R.pseudoacacia* = 1,350 from coppiced shoots
  - Testing of resistance: *Q.frainetto* = one site in the area of Craiova Forest Range Office, 2,175 rooted cuttings, 0.33 ha; one site in the area of Bals Forest Range Office, 825 rooted cuttings, 0.13 ha; *R.pseudoacacia* = one site in the area of the former Apele Vii Forest Range Office. 1.350 rooted cuttings. 0.12 ha
  - Establishment of seed orchards: *Q.frainetto* = one site in the area of Bals Forest Range Office, 3,000 rooted cuttings, 1.1 ha; *R.pseudoacacia* = one site in the area of the former Apele Vii Forest Range Office, 1,350 rooted cuttings.
- 2) Production of scions at scion gardens: scions for reforestation purposes can be produced in the 14th year (one year after the completion of the resistance test)
- 3) Production of seeds at seed orchards: acorns are expected to be produced some 20 years after the establishment of seed orchards.

7) Point to Note

As the breeding technique for resistant trees has not yet reached the level of practical application, it will be necessary to conduct a preliminary test to confirm the applicability of the technique.

Table 4 Cost of Breeding Technique for Resistant Trees

Planning Item	Details	Quantity	Required Labour	Cost (US\$)	
Selection of Candidate Tree	Selection of Candidate Tree	Qf: 40 sites; Rp: 18 sites Total: 58 sites	3 persons/site x 2days = 6 person.days	5	
	Breeding of Resistant Planting Stock	- Collection of branches to produce cuttings and preparation of logs for hydroponics	Qf: 10x5 = 50 per site 2,000 for 40 sites	6x58=348 person.days	5
		- Preparation of cuttings from prepared logs	2,000x10=20,000	200 per person.day; 2,000÷200=10 person.days	5
		- Collection of coppiced shoots and preparation of cuttings	Qf: 100x5=500 per site 20,000 for 40 sites	2,000 per person.day; 20,000÷2,000=10 person.days	5
		- Buckets for hydroponics	20 per site: 20x40=800	29,000÷2,000=14.5 person.days	3
		- Planting of cuttings in soil bed in mist	20,000+29,000=49,000	49,000÷2,000=24.5 person.days	5
		- Management of hydroponics and cuttings		one person x 5 months	150/person/month
		- Acclimatisation (first year)		2 persons x 4 months (July-October)	150/person/month
		- Acclimatisation (second year)		2 persons x 9 months (March-November)	150/person/month
		- Construction of mist houses	2 houses of Romanian	100,000	200,000.0
		- Management of mist houses (electricity and water costs)	For 5 months use	1,000/month	5,000.0
	Testing of Resistance	< Establishment of Test Forests (Cum Scion Gardens) >			
Qf: Craiova		- Soil preparation	0.33 ha		650/ha
		- Planting	2,175 rooted cuttings	3 person.days/1,000 cuttings; 2.175x3=6.53 person.days	5
		- Weeding	0.33 ha	3 times/year x 3 persons x 5 years = 45 person.days/ha 0.33x45=14.85 person.days	5
Qf: Bals		- Soil preparation	0.13 ha		650/ha
		- Planting	825 rooted cuttings	3 person.days/1,000 cuttings; 0.825x3=2.48 person.days	5
		- Weeding	0.13 ha	3 times/year x 3 persons x 5 years = 45 person.days/ha 0.13x45=5.85 person.days	5
Rp: Former Apele Vii		- Soil preparation	0.2 ha		650/ha
		- Planting	1,350 rooted cuttings	3 person.days/1,000 cuttings; 1.35x3=4.05 person.days	5
		- Weeding	0.2 ha	3 times/year x 3 persons x 5 years = 45 person.days/ha 0.2x45=9 person.days	5
Resistance Testing			Every 2 years; 5 times; one person.day at each site; 1x3x5=15	5	75.0

Planning Item	Details	Quantity	Required Labour	Cost (US\$)
	Improvement Cutting at Test Forests	Qf+Rp=4,350; 50% improvement cutting = 2,175	50 trees/person.day; 43.5 person.days for 2,175 trees	5
Testing of Resistance	Fertiliser Application Pest Control and Tree Forming	NPK mixture: 30 g per tree 2,175x30=65,250 g = 65 kg	500 trees/person.day; 2,175÷500=44 Every 2 years; 5 times; 3 person.days per site: 3x3x5=45	2 5
Establishment of Seed Orchard	Qf: Bals	1.1 ha	3 person.days/1,000 cuttings; 3x3=9	650/ha
	- Soil preparation	3,000 rooted cuttings	3 times/year x 3 persons x 5 years = 45 person.days/ha	5
	- Planting - Weeding	1.1 ha	1x45=49.5 person.days	5
	Rp: Former Apele VII	0.5 ha	3 person.days/1,000 cuttings; 1.35x3=4.05 person.days	650/ha
	- Soil preparation	1,350 rooted cuttings	3 times/year x 3 persons x 5 years = 45 person.days/ha	5
	- Planting - Weeding	0.5 ha	50 trees/person.day; 43.5 person.days for 2,175 trees	5
	Improvement Cutting	Qf+Rp=4,350; 50% improvement cutting = 2,175	Every 2 years; 10 times; 3 person.days per site; 1x3x10=30	5
	Pest Control and Tree Forming		Every 2 years; 10 times; one person.day per site; 1x2x10=20	5
	Growth Survey at Seed Forests			5
Total				217,308.1

Appendix F-8 Area of Damaged Forest by Soil code, Damage Grade

Soil Code	Damage Grade			Total (ha)
	Strong(ha)	Moderate(ha)	Weak(ha)	
1301	51.4	142.2	245.1	438.7
1303	18.6	46.0	29.8	94.4
1306			10.6	10.6
1307	2.9	4.2		7.1
1401	2.3	3.8	23.9	30.0
1402	9.0	16.6	7.6	33.2
1406		3.4	18.6	22.0
1409		2.7		2.7
1411	3.2	5.8	5.6	14.6
2101	36.7	105.2	40.5	182.4
2103	38.4	212.9	209.5	460.8
2105	5.9	13.8	17.0	36.7
2108	18.2	22.6	6.8	47.6
2201	50.6	49.4	29.1	129.1
2203	6.8	21.5	38.9	67.2
2208	17.7	10.0	14.1	41.8
2209		4.6	3.4	8.0
2219	26.5	14.0	1.3	41.8
2301	257.5	388.6	576.9	1,223.0
2302	395.2	565.9	375.5	1,336.6
2303		3.5		3.5
2305	61.4	192.0	277.0	530.4
2306			1.4	1.4
2307	88.7	143.6	190.6	422.9
2401	120.6	255.6	386.2	762.4
2402	13.3	50.5	141.4	205.2
2405	0.5	2.5	16.6	19.6
2407	56.0	320.5	218.0	594.5
2408	35.4	89.6	1.8	126.8
2409	83.8	417.1	752.9	1,253.8
3101	2.8		5.0	7.8
3103	20.6	8.6		29.2
3109			70.3	70.3
3112	37.5	21.3	4.0	62.8
3116	4.5	3.6		8.1
3117	2.0			2.0
6404			0.5	0.5
6405	4.8	2.4		7.2
7207	9.8			9.8
8101	16.0	5.9	2.1	24.0
8103	7.5			7.5
9301	204.1	76.4	31.0	311.5
9302	130.3	74.4	143.4	348.1
9303	15.1	4.7		19.8
9309	9.0		0.4	9.4
9501	24.8	0.6		25.4
9502	2.5			2.5
9504	0.6	63.2	22.6	86.4
9505		0.9		0.9
9506			7.8	7.8
9507	6.6	4.6		11.2
9509	3.0			3.0
Total	1,902.1	3,374.7	3,927.2	9,204.0

Appendix F-9 Area of Damaged Forests by Stand Age, Damage Grade

(ha)

Stand Age	Damage Grade			Total
	Strong(ha)	Moderate(ha)	Weak(ha)	
9	3.3	7.1	0.7	11.1
10	6.2	25.7	0.2	32.1
11	0.9	11.3	3.8	16.0
12	11.0	27.9	4.4	43.3
13	4.1	23.3	4.9	32.3
14	12.8	16.9	1.9	31.6
15	27.8	35.3	15.5	78.6
16	12.3	30.3	2.1	44.7
17	35.1	51.0	15.8	101.9
18	16.3	22.6	6.6	45.5
19	9.2	17.9	15.5	42.6
20	25.8	57.4	34.4	117.6
21	6.5	17.3	9.8	33.6
22	26.6	59.2	43.1	128.9
23	47.1	32.6	17.8	97.5
24	47.0	57.8	60.8	165.6
25	24.9	80.8	120.4	226.1
26	4.8		0.2	5.0
27	17.8	10.5	13.1	41.4
28	0.5	0.8	5.2	6.5
29	3.4	5.2	0.9	9.5
30	12.3	1.5	34.2	48.0
31	5.2	4.5	5.4	15.1
32	41.9	7.7	19.1	68.7
33	2.0	7.6	36.2	45.8
34	4.4	6.3	0.8	11.5
35	16.1	31.9	64.1	112.1
36	4.2	3.5	5.1	12.8
37	29.5	14.1	39.5	83.1
38	17.6	3.8	10.7	32.1
39	7.0	7.3	2.0	16.3
40	61.9	33.4	225.5	320.8
41	4.3	7.0	4.9	16.2
42	145.6	19.4	129.4	294.4
43	53.0	24.0	52.6	129.6
44	39.7	14.0	8.9	62.6
45	113.4	14.0	149.3	276.7
46	22.1		18.7	40.8
47	128.5	42.6	87.8	258.9
48	26.0	17.9	185.2	229.1
49	26.5	10.7	2.9	40.1
50	160.5	24.9	254.0	439.4
51	27.5	1.9	13.3	42.7
52	192.1	120.3	128.1	440.5
53	70.2	47.6	295.6	413.4
54	17.5	0.5		18.0
55	130.2	14.1	94.9	239.2
56		0.9	45.3	46.2
57	174.8	35.6	51.5	261.9
58	9.1	5.6	41.5	56.2
59	4.0	2.4	0.6	7.0
60	129.3	24.3	39.5	193.1
61	7.3		11.0	18.3
62	154.1	73.8	70.4	298.3

Stand Age	Damage Grade			Total
	Strong(ha)	Moderate(ha)	Weak(ha)	
63	41.2	15.1	123.7	180.0
64		2.9		2.9
65	216.2	29.4	296.1	541.7
66	13.4		1.7	15.1
67	71.8	21.7	24.9	118.4
68	18.8	8.4	106.3	133.5
69	8.3	2.0	7.7	18.0
70	91.1	37.2	125.0	253.3
71	16.3		37.4	53.7
72	151.3	11.0	61.2	223.5
73	40.3	41.8	126.0	208.1
74	16.9	26.2		43.1
76	7.9		10.4	18.3
77	35.3	1.9	22.7	59.9
78	9.1		76.4	85.5
79	9.5	42.7	3.2	55.4
80	5.6	45.3	24.0	74.9
81	4.4		41.3	45.7
82	79.8	102.5	22.7	205.0
83	42.7	22.2	58.1	123.0
84	3.2	1.8		5.0
85	12.2			12.2
86	1.5		2.4	3.9
87	83.0	93.6	1.1	177.7
88	8.5	3.4	27.7	39.6
89	7.0	2.9	4.9	14.8
90	40.5	88.9	66.9	196.3
91	6.0		22.0	28.0
92	23.3	14.6	23.2	61.1
93	49.4	15.2	17.8	82.4
95	25.5	22.6	20.7	68.8
96	5.9			5.9
97		17.4	15.5	32.9
98	6.9	2.0	16.6	25.5
99			1.7	1.7
100	40.7	15.4	32.8	88.9
Total	3,374.7	1,902.1	3,927.2	9,204.0



Appendix F-10 Damaged Forests Area and Volume by Forest Range Office, UP and Damage Grade (ha)/(m<sup>3</sup>)

County	OS	UP	Damage Grade			Total
			Strong	Moderate	Weak	
OLT	Bals	1		22.0	24.3	46.3
				3,164.8	3,329.7	6,494.5
		2	58.7	33.5	227.0	319.2
			6,343.0	3,791.9	32,906.0	43,040.9
		3	72.9	140.0	203.0	415.9
			8,126.3	19,018.7	29,818.4	56,963.4
		4	5.4	32.6	286.9	324.9
			956.9	6,298.7	52,007.6	59,263.2
		5	56.5	138.5	374.8	569.8
			8,357.8	15,332.5	50,130.6	73,820.9
	Sub Total Area			193.5	366.6	1,116.0
	Sub Total Volume			23,783.9	47,606.5	168,192.3
	Caracal	1	1.9	2.9	1.8	6.6
			302.9	595.6	520.9	1,419.4
		2	23.5	20.9	22.8	67.2
			1,641.7	2,356.7	2,973.0	6,971.3
		3	100.0	41.8	4.0	145.8
		14,279.1	7,098.7	864.5	22,242.3	
	Sub Total Area			125.4	65.6	28.6
	Sub Total Volume			16,223.7	10,050.9	4,358.4
	(Corabia)	4		5.7	2.5	8.2
				874.4	299.8	1,174.3
	Sub Total Area			5.7	2.5	8.2
	Sub Total Volume			874.4	299.8	1,174.3
	Slatina	3	35.4	83.5	73.2	192.1
			2,072.9	8,730.2	9,029.1	19,832.2
		4	33.4	208.9	208.1	450.4
		2,146.9	27,657.0	26,644.5	56,448.4	
5			2.5	1.4	3.9	
			97.0	54.3	151.3	
	5.7	40.9	44.7	91.3		
	171.9	3,519.8	5,392.2	9,084.0		
Sub Total Area			74.5	335.8	327.4	
Sub Total Volume			4,391.8	40,004.0	41,120.1	
(Dorogani-Olt)	3	4.9	4.9	19.8	29.6	
		1,188.6	934.6	4,345.1	6,468.3	
	4	36.9	98.0	32.4	167.3	
		5,878.1	16,750.7	6,297.6	28,926.4	
Sub Total Area			41.8	102.9	52.2	
Sub Total Volume			7,066.7	17,685.3	10,642.7	
Vultresti	1	4.5	17.4	1.6	23.5	
		502.2	2,761.1	228.5	3,491.8	
	3	1.3	2.5		3.8	
	295.4	280.9		576.3		
Sub Total Area			5.8	19.9	1.6	
Sub Total Volume			797.6	3,042.0	228.5	
Olt Sub Total Area			441.0	896.5	1,528.3	
Olt Sub Total Volume			52,263.7	119,263.3	224,841.8	
DOIJ	Amaradia	1	36.8	183.8	1.7	222.3
			2,650.6	21,668.9	212.8	24,532.3
		2		28.4	3.0	31.4
				4,474.0	565.8	5,039.8
		3		31.8	46.4	78.2
			4,769.4	7,166.1	11,935.5	
		7.7	111.5	11.9	131.1	
		786.5	12,048.0	1,151.0	13,985.5	
	Sub Total Area			44.5	355.5	63.0
	Sub Total Volume			3,437.1	42,960.3	9,095.8
	Calafat	1	51.6	2.6		54.2
			3,235.9	234.1		3,470.0
		2	32.2	9.4		41.6
			3,672.4	817.9		4,490.2
		18.0	6.7		24.7	
		916.3	227.1		1,143.4	
	Sub Total Area			101.8	18.7	120.5
	Sub Total Volume			7,824.6	1,279.0	9,103.5
	(Poiana Mare)	1	3.7			3.7
		421.9				421.9
Sub Total Area			3.7		3.7	
Sub Total Volume			421.9		421.9	
Craiova	1	105.0	193.1	29.3	327.4	
		11,992.8	26,345.4	4,135.8	42,474.0	
	2	102.9	135.1	126.6	364.6	
		12,026.7	17,854.5	18,429.3	48,310.5	
	3	216.0	270.5	46.2	532.7	
	29,753.6	35,560.4	6,137.4	71,451.3		
	96.0			96.0		
	11,071.8			11,071.8		
Sub Total Area			519.9	598.7	202.1	
Sub Total Volume			64,844.8	79,760.3	28,702.5	

(Appendix F-10 continued)

County	OS	UP	Damage Grade			Total
			Strong	Moderate	Weak	
	Filiasi	1	31.6	30.0	54.5	116.1
			1,275.2	3,720.6	8,804.7	13,800.5
		2	14.0	63.6	92.3	169.9
			614.8	5,140.3	12,979.2	18,734.4
	3	3.4	70.3	62.8	136.5	
		146.9	8,424.2	7,970.5	16,541.5	
	4		13.4	21.5	34.9	
				2,108.7	2,731.8	4,840.4
	Sub Total Area		49.0	177.3	231.1	457.4
	Sub Total Volume		2,036.8	19,393.8	32,486.1	53,916.8
	Perisor	1	213.6	421.2	620.7	1,255.5
			31,483.8	54,885.7	76,512.5	162,882.0
		2	125.3	317.7	210.4	653.4
			9,248.4	31,997.9	20,131.0	61,377.3
	3	70.4	182.5	289.3	542.2	
		5,292.9	17,671.2	30,464.9	53,429.0	
	4	17.8	94.7	409.3	521.8	
		1,292.4	8,714.3	48,541.9	58,548.6	
	Sub Total Area		427.1	1,016.1	1,529.7	2,972.9
	Sub Total Volume		47,317.5	113,269.1	175,650.3	336,236.9
	Sadova	3	12.8	9.9	17.9	40.6
			333.8	708.4	1,258.6	2,300.8
	Sub Total Area		12.8	9.9	17.9	40.6
	Sub Total Volume		333.8	708.4	1,258.6	2,300.8
	(Apele VII)	1	108.7	63.5	126.7	298.9
			10,915.4	7,132.5	18,010.3	36,058.2
2		11.2	18.6	5.2	35.0	
		1,135.9	2,015.9	877.4	4,029.3	
3	65.0	35.1	91.9	192.0		
	9,578.3	5,857.4	17,420.6	32,856.3		
Sub Total Area		184.9	117.2	223.8	525.9	
Sub Total Volume		21,629.6	15,005.8	36,308.3	72,943.7	
Segarcea	1	55.0	11.2		66.2	
		1,509.5	933.6		2,443.1	
	3	18.0	42.1	18.7	78.8	
		2,317.4	4,788.3	1,562.9	8,668.6	
	4	11.7	85.0	41.6	138.3	
		824.1	11,584.7	6,686.0	19,094.8	
5	19.0	21.0	58.1	98.1		
	1,577.4	2,172.9	7,890.2	11,640.5		
6	13.7	25.5	12.9	52.1		
	1,692.7	4,138.1	1,913.1	7,743.8		
Sub Total Area		117.4	184.8	131.3	433.5	
Sub Total Volume		7,921.1	23,617.6	18,052.1	49,590.8	
Dolj Sub Total Area		1,461.1	2,478.2	2,398.9	6,338.2	
Dolj Sub Total Volume		155,767.1	295,994.2	301,553.7	753,315.0	
Total Area		1,902.1	3,374.7	3,927.2	9,204.0	
Total Volume		208,030.8	415,257.5	526,395.5	1,149,683.7	



County	OS	UP	Forest Management Type										Total			
			F1	F2	F3	F5	F6	F7	F8	F9	F10	F11		F12	F13	
	Filiasi	1				26.8	53.4	0.6	7.4	15.4	12.5				116.1	
					3,959.5	7,054.1	41.7	1,949.2	516.9	249.1					13,600.5	
		2				63.0	49.7	5.3	10.8	15.7	20.0			5.4	169.9	
					8,112.8	7,013.6	464.6	1,619.5	871.8	542.8				109.3	18,734.4	
			3			38.1	85.6		7.3	0.5	5.0				136.5	
						4,326.6	10,647.7		1,273.9	30.9	262.5				16,541.5	
			4			4.9	30.0								34.9	
						660.5	4,179.9								4,840.4	
			Sub Total Area			132.8	218.7	5.9	25.5	31.6	37.5			5.4	457.4	
			Sub Total Volume			17,039.4	28,895.3	506.3	4,842.5	1,419.5	1,054.4			109.3	53,916.8	
		Perisor	1		84.3		113.3	1,055.3			2.6				1,255.5	
				16,262.3		13,500.2	133,084.4				35.1				162,882.0	
				2			42.6	557.7	4.2	7.2	33.4	8.3				653.4
							4,573.2	52,395.1	219.9	290.8	3,621.8	276.5				61,377.3
			3			1.9	466.9	61.0	11.1	0.5	0.8				542.2	
						146.1	47,840.9	4,938.5	452.9	26.6	24.0				53,429.0	
			4			79.2	417.7	8.0	16.9						521.8	
						8,590.3	47,899.4	742.3	1,316.6						58,548.6	
			Sub Total Area		84.3		237.0	2,497.6	73.2	35.2	33.9	11.7			2,972.9	
			Sub Total Volume		16,262.3		26,809.8	281,219.8	5,900.7	2,060.3	3,648.4	335.6			336,236.9	
	Sadova	3								27.8	10.3		2.5	40.6		
										1,967.0	288.6		45.3	2,300.8		
		Sub Total Area								27.8	10.3		2.5	40.6		
		Sub Total Volume								1,967.0	288.6		45.3	2,300.8		
	(Apele Vii)	1						0.6		205.1	87.2			6.0		
								102.6		30,035.7	5,315.1			604.8		
			2							30.5	4.5					
									3,706.8	322.5				35.0		
		3			78.4	31.9			0.6	62.5	14.7			3.9		
					13,170.9	6,613.2			109.0	10,838.4	1,039.8			1,085.0		
		Sub Total Area			78.4	31.9		0.6	0.6	298.1	106.4			9.9		
		Sub Total Volume			13,170.9	6,613.2		102.6	109.0	44,580.9	6,677.4			1,689.8		
	Segarcea	1							3.2	22.6	31.4			9.0		
									380.6	795.4	707.1			560.0		
			3			3.6	26.7	17.6	13.0	5.7	0.4	11.8			78.8	
						934.8	2,184.3	1,711.8	2,279.6	752.5	42.7	763.0			8,668.6	
			4						8.4	50.1	38.7				138.3	
									555.4	12,768.6	5,744.4				19,094.8	
		5			24.8	42.2		3.6	27.5					98.1		
					2,038.2	4,618.9		382.3	4,601.2					11,640.5		
		6						43.9	4.2	4.0				52.1		
								6,836.8	521.0	386.1				7,743.8		
		Sub Total Area			3.6	51.5	112.1	110.9	79.1	23.0	44.3			9.0		
		Sub Total Volume			934.8	4,222.5	13,722.8	15,951.4	11,864.8	838.1	1,496.3			560.0		
	Dolj Sub Total Area		32.8	87.9	3.6	1,299.9	3,672.3	246.6	182.5	517.7	264.7	1.8	3.1	25.3		
	Dolj Sub Total Volume		5,609.0	17,047.0	934.8	159,970.6	439,495.1	30,333.5	23,251.0	61,541.6	12,377.9	166.0	89.7	2,499.0		
	Total Area		32.8	87.9	3.6	2,557.2	4,743.9	375.0	540.5	534.1	295.3	3.7	3.1	26.9		
	Total Volume		5,609.0	17,047.0	934.8	334,453.3	586,325.7	50,925.1	74,696.9	62,774.1	14,005.5	244.1	89.7	2,578.7		

Appendix F-12 Prevention Forest Area and Volume by Forest Range Office, UP and Tree Species

(ha)(m<sup>3</sup>)

County	OS	UP	Tree Species								Total		
			Q.f	Q.c	Q.r	Q.p	Q.ped	Q.pub	Fe	OT		R.p	
OLT	Bals	1	73.5	40.8									114.3
			11,154.0	4,223.0									15,377.0
		2	0.8	19.5		5.3							25.6
			693.0	1,530.0		932.0							3,155.0
		3	177.3	9.4	7.9	14.0							208.6
		20,071.0	5,360.0	364.0	1,616.0				56.0			27,467.0	
	4	121.7	7.3	1.0	121.2					2.4		253.6	
		21,745.0	4,429.0	303.0	10,958.0				424.0	933.0		38,792.0	
	5	51.8	54.0	4.1	124.3					1.0		235.2	
		6,598.0	8,505.0	720.0	14,448.0				614.0	288.0		31,173.0	
		Sub Total Area		425.1	131.0	13.0	264.8			3.4			837.3
		Sub Total Volume		60,261.0	24,047.0	1,387.0	27,954.0			1,094.0	1,221.0		115,964.0
	Caracal	1						16.2	12.8		0.0		29.0
								2,141.0	1,253.0	84.0	908.0		4,386.0
		2	55.1	69.8	6.2		0.0				1.0		123.1
			6,196.0	7,331.0	931.0		108.0			61.0	865.0		15,492.0
		3		23.4	117.1						0.0	0.0	130.5
		283.0	2,293.0	11,813.0					3,708.0	5,416.0		23,513.0	
		Sub Total Area		55.1	84.2	123.3		16.2	12.8	0.0	1.0		292.6
		Sub Total Volume		6,479.0	9,624.0	12,744.0		2,249.0	1,253.0	3,853.0	7,189.0		43,391.0
	(Corabia)	4						2.6					2.6
								614.0					614.0
		Sub Total Area						2.6					2.6
		Sub Total Volume						614.0					614.0
	Slatina	3	39.7	72.1	12.9					0.0	2.4		127.1
			5,491.0	6,953.0	1,843.0					334.0	647.0	27.0	15,295.0
		4	239.7	26.9	3.5	19.7					0.0		289.8
			30,315.0	2,903.0	342.0	2,857.0				152.0	450.0		37,019.0
		6	22.0										22.0
		3,051.0										3,051.0	
		Sub Total Area		301.4	99.0	16.4	19.7			0.0	2.4		438.9
		Sub Total Volume		38,857.0	9,856.0	2,185.0	2,857.0			486.0	1,097.0	27.0	55,365.0
	(Dorogonesti-Olt)	3	25.4	104.0									129.4
			6,972.0	20,210.0	7.0						20.0		27,209.0
		4	42.3	3.6	1.7								47.6
		7,743.0	761.0	583.0						51.0		9,138.0	
		Sub Total Area		67.7	107.6	1.7							177.0
		Sub Total Volume		14,715.0	20,971.0	590.0					71.0		36,347.0
	Vultresti	1	9.2	1.8									11.0
			1,593.0	254.0						7.0			1,854.0
		3	13.1	1.4	24.0								14.5
			2,666.0	404.0									3,094.0
		Sub Total Area		22.3	3.2								25.5
		Sub Total Volume		4,259.0	658.0	24.0				7.0			4,948.0
	Olt Sub Total Area			871.6	425.0	154.4	284.5	18.8	12.8	3.4	3.4		1,773.9
	Olt Sub Total Volume			124,571.0	65,156.0	16,930.0	30,811.0	2,863.0	1,253.0	5,440.0	9,578.0	27.0	256,629.0
	DOIJ	Amaradia	1	79.0	6.7		40.4						126.1
				7,789.0	3,358.0		4,117.0				17.0		15,281.0
			2			1.4							1.4
				13.0	38.0	89.0							149.0
3			2.6	7.7								10.3	
		215.0	879.0	46.0	76.0				30.0	14.0	1,260.0		
4		204.1	11.3	1.0							216.4		
		17,476.0	3,372.0	89.0					235.0	11.0	21,183.0		
		Sub Total Area		285.7	25.7	2.4	40.4					354.2	
		Sub Total Volume		25,493.0	7,647.0	224.0	4,193.0			282.0	25.0	37,864.0	
Craiova		1	212.8	126.7	3.9					1.1	0.5		345.0
			24,520.0	20,221.0	955.0					693.0	235.0		46,624.0
		2	80.6	66.6	5.1	22.8				1.0	0.7	0.2	177.0
			9,752.0	9,956.0	520.0	979.0				188.0	601.0	3.0	21,999.0
		3	112.7	52.4	1.9					0.9			167.9
		14,148.0	7,155.0	206.0					195.0	6.0		21,710.0	
		15.5										15.5	
		1,613.0										1,613.0	
		Sub Total Area		421.6	245.7	10.9	22.8			3.0	1.2	0.2	705.4
		Sub Total Volume		50,033.0	37,332.0	1,681.0	979.0			1,076.0	842.0	3.0	91,946.0
Filiasi	1	61.7	5.2						5.8			72.7	
		7,141.0	2,506.0	67.0					610.0	176.0		10,500.0	
	2	51.4	0.8	2.2								54.4	
		6,331.0	71.0	314.0	15.0				139.0			6,870.0	
	3	9.4	0.9									10.3	
	1,062.0	114.0									1,176.0		
	8.5										8.5		
	826.0	99.0									925.0		
	Sub Total Area		131.0	6.9	2.2				5.8			145.9	
	Sub Total Volume		15,360.0	2,790.0	381.0	15.0			749.0	176.0		19,471.0	

County	OS	UP	Tree Species									Total	
			Q.f	Q.c	Q.r	Q.p	Q.ped	Q.pub	F.e	OT	R.p		
	Perisor	1	107.2	155.1									262.3
			10,381.0	20,462.0									30,843.0
		2	4.7	86.7					0.3				91.7
			984.0	7,648.0					145.0	112.0			8,889.0
		3	10.6	237.8			0.7	14.3	2.4			0.5	266.3
			5,206.0	23,246.0			2,056.0	4,493.0	615.0	62.0		20.0	35,698.0
		4	192.2	224.4	0.9		1.6	17.5	3.2	0.5			440.3
			20,828.0	23,693.0	468.0		225.0	1,922.0	1,238.0	145.0		8.0	48,527.0
		Sub Total Area	314.7	704.0	0.9		2.3	31.8	5.9	0.5		0.5	1,060.6
		Sub Total Volume	37,399.0	75,049.0	468.0		2,281.0	6,415.0	1,998.0	319.0		28.0	123,957.0
		(Apele VII)	3	2.2	0.4								2.6
				1,584.0	0.0								1,584.0
		Sub Total Area	2.2	0.4									2.6
		Sub Total Volume	1,584.0	0.0									1,584.0
	Segarcea	1	22.3	21.0	5.4		17.1					1.1	66.9
			1,424.0	3,009.0	735.0		4,199.0	411.0	429.0	403.0		135.0	10,745.0
		3	10.8	59.4	16.3				1.5			3.1	91.1
			1,383.0	9,973.0	1,800.0				69.0	278.0		251.0	13,754.0
		4	23.1	6.7	0.9								30.7
		1,562.0	1,275.0	78.0	21.0					58.0		2,994.0	
5			34.3									34.3	
		5,767.0	18.0			42.0	99.0	105.0	28.0			6,059.0	
	6	56.2	121.4	22.6		17.1		1.5			4.2	223.0	
		4,369.0	20,024.0	2,631.0	21.0	4,241.0	510.0	603.0	767.0		386.0	33,552.0	
	Sub Total Area	1,211.4	1,104.1	39.0	63.2	19.4	31.8	16.2	1.7		4.9	2,491.7	
	Sub Total Volume	134,238.0	142,842.0	5,385.0	5,208.0	6,522.0	6,925.0	4,708.0	2,129.0		417.0	308,374.0	
Dolj	Sub Total Area	2,083.0	1,529.1	193.4	347.7	38.2	44.6	19.6	5.1		4.9	4,265.6	
Dolj	Sub Total Volume	258,809.0	207,998.0	22,315.0	36,019.0	9,385.0	8,178.0	10,148.0	11,707.0		444.0	565,003.0	

Appendix F-13 Length of Forest Mantle by Forest Range Office and UP (m)

County	OS	UP	Damaged Forest	Prevention Forest	
OLT	Bals	1	4,440	2,920	
		2	14,720	210	
		3	19,250	2,740	
		4	8,160	3,530	
		5	14,980	3,760	
	Bals Total			61,550	13,160
	Caracal	1	290		
		2	6,700		2,290
		3	2,340		3,250
	Caracal Total			9,330	5,540
	(Corabia)	4	240		
	Corabia Total			240	-
	Slatina	3	10,900		4,650
		4	29,280		14,580
		5	620		
		6	12,800		2,240
	Slatina Total			53,600	21,470
	(Doroganesti-Olt)	3	1,420		2,010
		4	6,610		2,300
	Doroganesti-Olt Total			8,030	4,310
Vulturessti	1	740			
	3	160		90	
Vulturessti Total			900	90	
OLT Total			133,650	44,570	
DOLJ	Amaradia	1	17,900	2,920	
		2	1,440	280	
		3	5,410	810	
		4	10,280	8,440	
	Amaradia Total			35,030	12,450
	Calafat	1	2,150		-
		2	2,150		-
		3	280		-
	Calafat Total			4,580	-
	(Poiana Mare)	1	110		-
	Poiana Mare Total			110	-
	Craiova	1	10,310		5,320
		2	14,410		4,350
		3	12,530		3,100
		4	2,440		-
	Craiova Total			39,690	12,770
	Filiasi	1	14,830		3,360
		2	11,470		2,860
		3	12,980		1,470
		4	3,100		-
	Filiasi Total			42,380	7,690
	Perisor	1	16,080		1,620
		2	15,800		670
		3	3,780		2,890
		4	11,040		4,550
	Perisor Total			46,700	9,730
	Sadova	3	720		-
	Sadova Total			720	-
	(Apele Vii)	1	3,350		
2		280			
3		4,420		400	
Apele Vii Total			8,050	400	
Segarcea	1	1,330			
	3	3,460		1,450	
	4	1,060		1,240	
	5	2,700		240	
	6	5,600		1,030	
Segarcea Total			14,150	3,960	
DOLJ Total			191,410	47,000	
Total			325,060	91,570	

Appendix F-14 Compilation Annual Cost by County

Operation Year	Olt County							Dolj County							Direct Cost		Direct cost Total US\$	Cost (include maintenance cost) US\$		
	Machinery supplement	Hand tool supplement	Cruising	Wood production	Silviculture Tending	D.I.W	Forest manila planting	Forest road improvement	Sub Total US\$	Machinery supplement	Hand tool supplement	Cruising	Wood production	Silviculture Tending	D.I.W	Forest manila planting			Forest road improvement	Sub Total US\$
2		86	2,005					31,199	33,290	129	5,621						24,266	30,016	63,306	72,791
3	153,932	12	2,353	19,623	11,512			31,199	218,631	24	7,665	40,389	49,608				24,266	382,316	600,947	670,372
4	114,560	146	2,712	25,038	43,546	2,948	1,017	27,732	217,699	615	12,376	50,755	154,081	2,521	1,017	1,017	24,266	417,237	634,936	715,830
5	5,040	373	3,106	31,712	75,215	9,870	4,872	27,732	155,920	775	16,346	75,414	277,025	9,870	4,635	4,635	24,266	575,127	731,047	832,053
6	108,364	283	5,815	35,594	114,646		7,024	27,732	299,458	919	12,227	94,579	472,482	9,870	7,383	7,383	24,266	701,910	1,001,368	1,142,086
7	60,667	175	7,382	54,484	139,756		3,160		265,624	995	15,919	129,526	497,418		6,843	6,843		874,859	1,140,483	1,297,256
8	9,998	619	6,124	63,042	231,329		1,097		312,209	1,038	13,683	153,128	667,312		4,129	4,129		850,234	1,162,443	1,335,680
9		464		51,780	287,023		1,353		340,622			128,842	777,498		1,097	1,097		898,776	1,239,398	1,425,218
10		268			229,973				330,241	784			634,125		1,298	1,298		636,207	866,448	996,363
11		95			101,973				102,068	155			268,516					268,671	370,739	426,337
12		74			73,511		1,097		74,682	203			198,250		1,097	1,097		199,550	274,232	315,353
13		12	25		64,039		1,353		65,429	42	1,110		186,361		1,097	1,097		188,610	254,039	292,142
14		25	101		51,070				51,196	109	2,170		159,489		1,298	1,298		163,066	214,262	246,395
15		12	163		30,622				30,797	55	4,476		81,536					86,067	116,864	134,390
16		15	260		11,372				11,647	30	6,533		27,879					34,442	46,089	53,000
17		15			7,022				7,037	30			19,362					19,392	26,429	30,391
18		15	9		10,002				10,026	30	415		26,717					27,162	37,188	42,764
19		15	38		8,680				8,733	30	810		23,168					24,008	32,741	37,650
20		15	57		2,185				2,257	30	1,649		3,831					5,510	7,767	8,930
21			97		2,439				2,536		2,439		4,495					6,934	9,470	10,891
22					5,349				5,349				14,813					14,813	20,162	23,186
23			6		7,855				7,841		260		20,754					21,014	28,855	33,183
24			24		6,896				6,920		509		18,154					18,663	25,583	29,420
25			35		2,185				2,220		1,035		3,831					4,866	7,086	8,149
26			61		2,439				2,500		1,531		4,495					6,026	8,526	9,805
27					5,349				5,349				14,813					14,813	20,162	23,186
28					7,023				7,025				18,864					18,864	25,889	29,772
29					5,567				5,567				15,771					15,771	21,338	24,539
30																				
31																				
32																				
33			38						38		1,591							1,591	1,629	1,873
34			153						153		3,110							3,110	3,263	3,752
35			230						230		6,329							6,329	6,559	7,543
36			394						394		9,361							9,361	9,755	11,218
37			14						14		45							45	59	68
38			770						770		1,768							1,768	2,538	2,919
39			1,283						1,283		2,236							2,236	3,519	4,047
40			2,064						2,064		3,544							3,544	5,608	6,449
41			2,378						2,378		4,039							4,039	6,417	7,380
42			4,717						4,717		13,039							13,039	17,756	20,419
43			6,187						6,187		16,652							16,652	22,839	26,265
44			4,921						4,921		13,930							13,930	18,851	21,679





Operator Year	Olt County										Dolj County										Direct cost Total US\$	Costs (include maintenance costs) US\$
	Machinery supplement	Hand tool supplement	Cruising	Wood production	Silviculture Tending	D.I.W	Forest mantle planting	Forest road improvement	Sub Total US\$	Machinery supplement	Hand tool supplement	Cruising	Wood production	Silviculture Tending	D.I.W	Forest mantle planting	Forest road improvement	Sub Total US\$				
89																						
90																						
91																						
92																						
93																						
94																						
95																						
96																						
97																						
98																						
99																						
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119																						
120																						
121																						
122																						
123			584					584			1,236						1,236	1,820	2,093			
124			974					974			1,564						1,564	2,538	2,919			
125			1,567					1,567			2,478						2,478	4,045	4,652			
126			1,805					1,805			2,824						2,824	4,629	5,325			
127			3,580					3,580			9,117						9,117	12,697	14,602			
128			4,696					4,696			11,642						11,642	16,338	18,789			
129			3,735					3,735			9,759						9,759	13,474	15,495			
130																						
131																						
132																						



Appendix F-15 Cost by operation year (Supply of Machinery)

Olt County

Operation Year	Tractor (Production Operation)		Chain Saw		Earth auger		Mini Backhoe		Cultivator (Width 60cm)		Cultivator (Width 60cm)		Tractor (Drainage and Infiltration Works)		Cost Total	Cost (include maintenance cost)
	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	US\$	US\$
3	2	104,000	4	2,432			1	47,500							153,932	169,325
4	1	52,000	4	2,432	2	4,520			2	1,474	2	1,134	1	53,000	114,560	126,016
5			4	2,432					2	1,474	2	1,134			5,040	5,544
6	1	52,000	6	3,648			1	47,500	4	2,948	4	2,268			108,364	119,200
7			10	6,080			1	47,500	5	3,685	6	3,402			60,667	66,734
8			6	3,648					4	2,948	6	3,402			9,998	10,998

<b>Total</b>	<b>4</b>	<b>208,000</b>	<b>34</b>	<b>20,672</b>	<b>2</b>	<b>4,520</b>	<b>3</b>	<b>142,500</b>	<b>17</b>	<b>12,529</b>	<b>20</b>	<b>11,340</b>	<b>1</b>	<b>53,000</b>	<b>452,561</b>	<b>497,817</b>
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Dolj County

Operation Year	Tractor (Production Operation)		Chain Saw		Earth auger		Mini Backhoe		Cultivator (Width 60cm)		Cultivator (Width 60cm)		Tractor (Drainage and Infiltration Works)		Cost Total	Cost (include maintenance cost)
	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	US\$	US\$
3	4	208,000	8	4,864			1	47,500							260,364	286,400
4	2	104,000	4	2,432	2	4,520			5	3,685	7	3,969	1	53,000	171,606	188,767
5	2	104,000	8	4,864			1	47,500	8	5,896	8	4,536			166,796	183,476
6			20	12,160			1	47,500	14	10,318	18	10,206			80,184	88,202
7			20	12,160			4	190,000	16	11,792	18	10,206			224,158	246,574
8			18	10,944											10,944	12,038

<b>Total</b>	<b>8</b>	<b>416,000</b>	<b>78</b>	<b>47,424</b>	<b>2</b>	<b>4,520</b>	<b>7</b>	<b>332,500</b>	<b>43</b>	<b>31,691</b>	<b>51</b>	<b>28,917</b>	<b>1</b>	<b>53,000</b>	<b>914,052</b>	<b>1,005,457</b>
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Total Olt County and Dolj County

Operation Year	Tractor (Production Operation)		Chain Saw		Earth auger		Mini Backhoe		Cultivator (Width 60cm)		Cultivator (Width 60cm)		Tractor (Drainage and Infiltration Works)		Cost Total	Cost (include maintenance cost)
	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	US\$	US\$
3	6	312,000	12	7,296			2	95,000							414,296	455,726
4	3	156,000	8	4,864	4	9,040			7	5,159	9	5,103	2	106,000	286,166	314,783
5	2	104,000	12	7,296			1	47,500	10	7,370	10	5,670			171,836	189,020
6	1	52,000	26	15,808			2	95,000	18	13,266	22	12,474			188,548	207,403
7			30	18,240			5	237,500	21	15,477	24	13,608			284,825	313,308
8			24	14,592					4	2,948	6	3,402			20,942	23,036

<b>Total</b>	<b>12</b>	<b>624,000</b>	<b>112</b>	<b>68,096</b>	<b>4</b>	<b>9,040</b>	<b>10</b>	<b>475,000</b>	<b>60</b>	<b>44,220</b>	<b>71</b>	<b>40,257</b>	<b>2</b>	<b>106,000</b>	<b>1,366,613</b>	<b>1,503,274</b>
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Appendix F-16 Cost by Operation Year (Supply of Hand Tools)

Olt County

Operation Year	Cost							Total US\$
	Diameter Gage	Axe	Shovel	Handsaw	Hoe	Sickle	Wheelbarrow	
2	80	6						86
3		12						12
4		6	4		13	16	107	146
5			65	5	19	16	268	373
6	80	12	15	5	32	32	107	283
7		6	23	10	50	32	54	175
8		9	8		95	79	429	619
9			65	10	126	103	161	464
10			42	17	145	63		268
11					95			95
12					5	69		74
13					12			12
14					25			25
15					12			12
16					15			15
17					15			15
18					15			15
19					15			15
20					15			15
Total	160	52	222	176	643	339	1,126	2,718

Dolj County

Operation Year	Cost							Total US\$
	Diameter Gage	Axe	Shovel	Handsaw	Hoe	Sickle	Wheelbarrow	
2	120	9						129
3		24						24
4	80	15	4		47	39	429	615
5	40	18	146	22	72	47	429	775
6	80	18	61	12	117	95	536	919
7	40	21	153	57	192	103	429	993
8		12		20	205	158	644	1,038
9			57	47	299	292	644	1,339
10			92	74	343	221	54	784
11				22	132			155
12				20	183			203
13				42				42
14				109				109
15				55				55
16				30				30
17				30				30
18				30				30
19				30				30
20				30				30
Total	360	119	513	630	1,591	955	3,164	7,331

Total Olt County and Dolj County

Operation Year	Cost							Total US\$
	Diameter Gage	Axe	Shovel	Handsaw	Hoe	Sickle	Wheelbarrow	
2	200	15						215
3		36						36
4	80	21	8		60	55	536	760
5	40	18	211	27	91	63	697	1,148
6	160	30	77	17	145	126	644	1,202
7	40	27	176	67	243	134	483	1,170
8		21	8	20	299	237	1,073	1,657
9			123	57	425	395	804	1,804
10			134	92	488	284	54	1,052
11				22	227			249
12				25	252			277
13				55				55
14				134				134
15				67				67
16				45				45
17				45				45
18				45				45
19				45				45
20				45				45
Total	520	170	736	806	2,233	1,294	4,290	10,050

Appendix F-17(1)-1 Cost by operation year (Cruising Olt County)

Forest Management Type F5							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha	\$29.00	ha	\$29.47	ha	\$7.27	US\$
2	6.00	174	2.00	59	93.89	683	916
3	7.00	203	2.00	59	93.89	683	945
4	6.50	189	2.00	59	93.89	683	930
5	10.00	290	4.50	133	93.89	683	1,105
6	26.00	754	67.00	1,975	93.88	683	3,411
7	47.00	1,363	80.00	2,358	93.88	683	4,403
8	40.22	1,167	53.35	1,572	93.88	683	3,421
Total	142.72	4,139	211	6,214	657	4,778	15,132

Forest Management Type F9							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha	\$39.37	ha	\$40.47	ha	\$7.12	US\$
2							
3			1.00	40	3.04	22	62
4			1.00	40	3.03	22	62
5	3.80	150	1.50	61	3.03	22	232
6							
7							
8							
Total	3.80	150	3.50	142	9.10	65	356

Forest Management Type F6							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha	\$19.38	ha	\$29.27	ha	\$6.53	US\$
2	4.00	78	3.00	88	87.64	572	737
3	4.00	78	3.00	88	87.64	572	737
4	4.00	78	3.00	88	87.64	572	737
5	6.00	116	4.00	117	87.64	572	806
6	21.00	407	38.00	1,112	87.64	572	2,091
7	23.00	446	67.00	1,961	87.65	572	2,979
8	18.48	358	60.55	1,772	87.65	572	2,702
Total	80.48	1,560	178.55	5,225	613.50	4,005	10,790

Forest Management Type F10							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha	\$26.10	ha	\$38.94	ha	\$11.84	US\$
2			1.00	39	2.15	25	64
3	1.00	26	2.00	78	2.15	25	129
4	2.00	52	3.00	117	2.15	25	194
5	3.00	78	2.00	78	2.15	25	182
6							
7							
8							
Total	6.00	157	8.00	312	8.60	102	570

Forest Management Type F7							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha	\$15.91	ha	\$11.78	ha	\$2.9	US\$
2	1.00	16	1.00	12	11.50	33	61
3	5.00	80	3.00	35	11.50	33	148
4	7.00	111	9.00	106	11.50	33	250
5	7.80	124	3.45	41	11.50	33	198
6			6.00	71	11.50	33	104
7							
8							
Total	20.8	330.9	22.45	264	57.5	164.9	760

Forest Management Type F11							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha	\$20.50	ha		ha		US\$
2							
3							
4	1.90	39					39
5							
6							
7							
8							
Total	1.90	39					39

Forest Management Type F8							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha	\$9.54	ha	\$8.96	ha	\$3.65	US\$
2	7.00	67	3.00	27	36.48	133	227
3	17.00	162	4.00	36	36.48	133	331
4	27.00	258	12.00	108	36.48	133	498
5	41.00	391	6.65	60	36.48	133	584
6	7.44	71			36.48	133	204
7							
8							
Total	99.44	949	25.65	230	182.40	666	1,845

Forest Management Type F13							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha		ha	\$2.97	ha		US\$
2							
3							
4							
5							
6			1.60	5			5
7							
8							
Total			1.60	5			5

Appendix F-17(1)-2 Cost by operation year(Cruising Olt County Total)

F.M.T	F5	F6	F7	F8	F9	F10	F11	F13	Total
Operation Year	Cost US\$	Cost US\$	Cost US\$	Cost US\$	Cost US\$	Cost US\$	Cost US\$	Cost US\$	US\$
2	916	737	61	227		64			2,005
3	945	737	148	331	62	129			2,353
4	930	737	250	498	62	194	39		2,712
5	1,105	806	198	584	232	182			3,106
6	3,411	2,091	104	204				5	5,815
7	4,403	2,979							7,382
8	3,421	2,702							6,124
Total	15,132	10,790	760	1,845	356	570	39	5	29,497

Appendix F-17(1)-3 Production by operation year(Cruising Olt County Total)

F.M.T	F5 Area	F6 Area	F7 Area	F8 Area	F9 Area	F10 Area	F11 Area	F13 Area	Total
Operation Year	ha	ha	ha	ha	ha	ha	ha	ha	ha
2	101.89	94.64	13.50	46.48		3.15			259.66
3	102.89	94.64	19.50	57.48	4.04	5.15			283.70
4	102.39	94.64	27.50	75.48	4.03	7.15	1.90		313.09
5	108.39	97.64	22.75	84.13	8.33	7.15			328.39
6	186.88	146.64	17.50	43.92				1.60	396.54
7	220.88	177.65							398.53
8	187.45	166.68							354.13
Total	1,010.77	872.53	100.75	307.49	16.40	22.60	1.90	1.60	2,334.04

F.M.T : Forest Management Type

Appendix F-17(2)-1 Cost by operation year(Cruising Dolj County)

Forest Management Type F1							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha	\$12.78	ha		ha		US\$
2							
3							
4							
5							
6	19.68	251					251
7							
8							
Total	19.68	251					251

Forest Management Type F6							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha	\$18.03	ha	\$28.06	ha	\$5.23	US\$
2	16.00	289	13.00	365	247.73	1,296	1,949
3	16.00	289	13.00	365	247.73	1,296	1,949
4	16.00	289	12.00	337	247.73	1,296	1,921
5	24.00	433	16.00	449	247.73	1,296	2,178
6	89.00	1,605	162.00	4,546	247.73	1,296	7,447
7	97.00	1,749	283.00	7,942	247.73	1,296	10,987
8	80.08	1,444	258.80	7,263	247.72	1,296	10,003
Total	338.08	6,096	757.80	21,267	1,734.10	9,072	36,435

Forest Management Type F2							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha	\$13.83	ha	\$14.97	ha	\$2.31	US\$
2							
3							
4							
5							
6	27.12	375			13.75	32	407
7			6.08	91	13.75	32	123
8							
Total	27.12	375	6.08	91	27.50	63	529

Forest Management Type F7							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha	\$10.90	ha	\$20.44	ha	\$4.73	US\$
2	4.00	44	4.00	82	10.26	48	174
3	10.00	109	7.00	143	10.26	48	301
4	18.00	196	26.00	531	10.26	48	776
5	16.72	182	11.20	229	10.26	48	460
6			19.00	388	10.26	48	437
7							
8							
Total	48.72	531	67.20	1,374	51.30	242	2,147

Forest Management Type F3							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha		ha	\$8.25	ha		US\$
2							
3			1.44	12			12
4							
5							
6							
7							
8							
Total			1.44	12			12

Forest Management Type F8							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha	\$5.65	ha	\$14.42	ha	\$4.28	US\$
2	3.00	17	5.00	72	8.40	36	125
3	8.00	45	6.00	87	8.40	36	168
4	13.00	73	18.00	260	8.40	36	369
5	19.00	107	12.15	175	8.40	36	319
6	3.56	20			8.40	36	56
7							
8							
Total	46.56	263	41.15	594	42.00	180	1,036

Forest Management Type F5							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha	\$21.78	ha	\$24.03	ha	\$5.33	US\$
2	14.00	305	3.00	72	50.96	272	649
3	14.00	305	3.00	72	50.96	272	649
4	14.00	305	3.00	72	50.96	272	649
5	20.00	436	5.50	132	50.96	272	840
6	54.00	1,176	83.00	1,994	50.96	272	3,442
7	98.00	2,134	100.00	2,403	50.95	272	4,809
8	84.32	1,837	65.40	1,571	50.95	272	3,680
Total	298.32	6,497	262.90	6,316	356.70	1,903	14,716

Forest Management Type F9							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha	\$49.15	ha	\$56.90	ha	\$15.18	US\$
2	20.00	983	10.00	569	40.00	607	2,159
3	35.00	1,720	19.00	1,081	40.00	607	3,409
4	60.00	2,949	44.00	2,504	40.00	607	6,060
5	115.10	5,657	54.60	3,107	40.00	607	9,371
6							
7							
8							
Total	230.10	11,310	127.60	7,260	160.00	2,429	20,999



Forest Management Type F10							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha	\$32.13	ha	\$41.06	ha	\$11.79	US\$
2	10.00	321	4.00	164	6.68	79	564
3	24.00	771	8.00	329	6.68	79	1,178
4	58.00	1,863	13.00	534	6.67	79	2,476
5	82.30	2,644	6.85	281	6.67	79	3,004
6							
7							
8							
Total	174.30	5,600	31.85	1,308	26.70	315	7,222

Forest Management Type F11							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha		ha	\$46.01	ha		US\$
2							
3							
4			1.80	83			83
5							
6							
7							
8							
Total			1.80	83			83

Forest Management Type F12							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha	\$14.25	ha		ha	\$11.60	US\$
2							
3							
4	2.50	36			0.60	7	43
5							
6							
7							
8							
Total	2.50	36					43

Forest Management Type F13							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha	\$10.25	ha	\$22.75	ha		US\$
2							
3							
4							
5	17.10	175					175
6			8.20	187			187
7							
8							
Total	17.10	175	8.20	187			362

Appendix F-17(2)-2 Cost by operation year(Cruising Dolj County Total)

FMT	F1	F2	F3	F5	F6	F7	F8	F9	F10	F11	F12	F13	Total
Operation Year	Cost US\$	Cost US\$	Cost US\$	Cost US\$	Cost US\$	Cost US\$	Cost US\$	Cost US\$	Cost US\$	Cost US\$	Cost US\$	Cost US\$	US\$
2				649	1,949	174	125	2,159	564				5,621
3			12	649	1,949	301	168	3,409	1,178				7,665
4				649	1,921	776	369	6,060	2,476	83	43		12,376
5				840	2,178	460	319	9,371	3,004			175	16,346
6	251	407		3,442	7,447	437	56					187	12,227
7		123		4,809	10,987								15,919
8				3,680	10,003								13,683
Total	251	529	12	14,716	36,435	2,147	1,036	20,999	7,222	83	43	362	83,836

Appendix F-17(2)-3 Production by operation year(Cruising Dolj County Total)

FMT	F1	F2	F3	F5	F6	F7	F8	F9	F10	F11	F12	F13	合計
Operation Year	Area ha	Area ha	Area ha	Area ha	Area ha	Area ha	Area ha	Area ha	Area ha	Area ha	Area ha	Area ha	ha
2				67.96	276.73	18.26	16.40	70.00	20.68				470.03
3			1.44	67.96	276.73	27.26	22.40	94.00	38.68				528.47
4				67.96	275.73	54.26	39.40	144.00	77.67				659.02
5				76.46	287.73	38.18	39.55	209.70	95.82			17.10	764.54
6	19.68	40.87		187.96	498.73	29.26	11.96			19.68	40.87	8.20	857.21
7		19.83		248.95	627.73						19.83		916.34
8				200.67	586.60								787.27
Total	19.68	60.70	1.44	917.92	2,829.93	167.22	129.71	517.70	232.85	19.68	60.70	25.30	4,982.88

F.M.T : Forest Management Type

Appendix F-17(3) Cost by Operation Year (Cruising, Thinning)

Operation Year	Olt County			Dolj County			Total		
	Actual Regeneration Area ha	Thinning	Cruising	Actual Regeneration Area ha	Thinning	Cruising	Actual Regeneration Area ha	Thinning Planning Volume m <sup>3</sup>	Cruising Cost US\$
		(m <sup>3</sup> /ha)	(Unit Cost US\$)		(m <sup>3</sup> /ha)	(Unit Cost US\$)			
	Populus	(26)	(0.28)		(26)	(0.28)			
15	1.60	42	12	8.20	213	60	9.80	255	71

F9s, m, F10s, m  
Robinia

		(13)	(1.94)		(13)	(1.94)			
13	1.00	13	25	44.00	572	1,110	45.00	585	1,136
14	4.00	52	101	86.00	1,118	2,170	90.00	1,170	2,271
15	6.00	78	151	175.00	2,275	4,416	181.00	2,353	4,568
16	10.30	134	260	258.85	3,365	6,533	269.15	3,499	6,793
Total	21.30	277	538	563.85	7,330	14,230	585.15	7,607	14,767
		(13)	(0.72)		(13)	(0.72)			
18	1.00	13	9	44.00	572	415	45.00	585	424
19	4.00	52	38	86.00	1,118	810	90.00	1,170	848
20	6.00	78	57	175.00	2,275	1,649	181.00	2,353	1,706
21	10.30	134	97	258.85	3,365	2,439	269.15	3,499	2,536
Total		277	201		7,330	5,314	585.15	7,607	5,514
		(14)	(0.42)		(14)	(0.42)			
23	1.00	14	6	44.00	616	260	45.00	630	266
24	4.00	56	24	86.00	1,204	509	90.00	1,260	532
25	6.00	84	35	175.00	2,450	1,035	181.00	2,534	1,071
26	10.30	144	61	258.85	3,624	1,531	269.15	3,768	1,592
Total		298	126		7,894	3,335	585.15	8,192	3,461

F8s, F7s, m, F6s, m, F5s, m, F11s  
Quercus

F8s, F7s, m, F6s, m, F5s, m  
F11m, F12s, F13s, F1s, F2s, m, F3m

		(19)	(1.50)		(19)	(1.50)			
38	27.00	513	770	62.00	1,178	1,768	89.00	1,691	2,537
39	45.00	855	1,283	78.44	1,490	2,236	123.44	2,345	3,519
40	72.40	1,376	2,064	124.30	2,362	3,544	196.70	3,737	5,608
41	83.40	1,585	2,378	141.67	2,692	4,039	225.07	4,276	6,417
42	165.44	3,143	4,717	457.36	8,690	13,039	622.80	11,833	17,756
43	217.00	4,123	6,187	584.08	11,098	16,652	801.08	15,221	22,838
44	172.60	3,279	4,921	488.60	9,283	13,930	661.20	12,563	18,850
Total	782.84	14,874	22,318	1,936.45	36,793	55,207	2,719.29	51,667	77,526
		(15)	(0.80)		(15)	(0.80)			
48	27.00	405	322	62.00	930	740	89.00	1,335	1,062
49	45.00	675	537	78.44	1,177	936	123.44	1,852	1,472
50	72.40	1,086	864	124.30	1,865	1,483	196.70	2,951	2,346
51	83.40	1,251	995	141.67	2,125	1,690	225.07	3,376	2,685
52	165.44	2,482	1,973	457.36	6,860	5,455	622.80	9,342	7,429
53	217.00	3,255	2,583	584.08	8,761	6,967	801.08	12,016	9,555
54	172.60	2,589	2,059	488.60	7,329	5,828	661.20	9,918	7,887
Total		11,743	9,338		29,047	23,098		40,789	32,436
		(16)	(0.36)		(16)	(0.36)			
58	27.00	432	155	62.00	992	356	89.00	1,424	511
59	45.00	720	258	78.44	1,255	450	123.44	1,975	708
60	72.40	1,158	415	124.30	1,989	713	196.70	3,147	1,129
61	83.40	1,334	479	141.67	2,267	813	225.07	3,601	1,291
62	165.44	2,647	949	457.36	7,318	2,624	622.80	9,965	3,573
63	217.00	3,472	1,245	584.08	9,345	3,351	801.08	12,817	4,596
64	172.60	2,762	990	488.60	7,818	2,803	661.20	10,579	3,794
Total		12,525	4,492		30,983	11,111		43,509	15,602
		(18)	(0.20)		(18)	(0.20)			
68	27.00	436	96	62.00	1,116	220	89.00	1,602	316
69	45.00	810	160	78.44	1,412	278	123.44	2,222	438
70	72.40	1,303	257	124.30	2,237	441	196.70	3,541	698
71	83.40	1,501	296	141.67	2,550	503	225.07	4,051	799
72	165.44	2,978	587	457.36	8,232	1,623	622.80	11,210	2,211
73	217.00	3,906	770	584.08	10,513	2,073	801.08	14,419	2,844
74	172.60	3,107	613	488.60	8,795	1,734	661.20	11,902	2,347
Total		14,091	2,779		34,856	6,874		48,947	9,652
		(18)	(0.18)		(18)	(0.18)			
78	27.00	486	88	62.00	1,116	203	89.00	1,602	291
79	45.00	810	147	78.44	1,412	256	123.44	2,222	403
80	72.40	1,303	237	124.30	2,237	406	196.70	3,541	643
81	83.40	1,501	272	141.67	2,550	463	225.07	4,051	735
82	165.44	2,978	540	457.36	8,232	1,494	622.80	11,210	2,035
83	217.00	3,906	709	584.08	10,513	1,908	801.08	14,419	2,617
84	172.60	3,107	564	488.60	8,795	1,596	661.20	11,902	2,160
Total		14,091	2,558		34,856	6,326		48,947	8,884

Appendix F-17(4) Cost by Operation Year (Cruising, Final Cutting)

Operation Year	Olt County			Dolj County			Total		
	Actual Regeneration Area ha	Thinning	Cruising	Actual Regeneration Area ha	Thinning	Cruising	Actual Regeneration Area ha	Final Cutting Planning Volume m <sup>3</sup>	Cruising Cost US\$
		(m <sup>3</sup> /ha)	(Unit Cost US\$)		(m <sup>3</sup> /ha)	(Unit Cost US\$)			
F13m	Populus	(288.8)	(0.030)	F13m	(183.4)	(0.030)			
37	1.60	462	14	8.20	1504	45	9.80	1,966	59

F9s, m, F10s, m

Robinia										
		(192.0)	(0.199)			(181.4)	(0.199)			
33	1.00	192	38	44.00	7,980	1,591	45.00	8,172	1,630	
34	4.00	768	153	86.00	15,598	3,110	90.00	16,366	3,263	
35	6.00	1,152	230	175.00	31,740	6,329	181.00	32,892	6,559	
36	10.30	1,978	394	258.85	46,948	9,361	269.15	48,926	9,756	
Total	21.30	4,090	816	563.85	102,266	20,392	585.15	106,356	21,207	

F8sm, F7s,m, F6s,m, F5s,m, F11s

Quercus				F8sm, F7s,m, F6s,m, F5s,m F11m, F12s, F13s, F1s, F2sm, F3m						
Reference	(355.0)	(0.185)				(327.0)	(0.185)			
123	27.00	9585	1,770	62.00	20276	3,745	89.00	29,861	5,515	
124	45.00	15976	2,951	78.44	25653	4,738	123.44	41,628	7,689	
125	72.40	25703	4,747	124.30	40650	7,508	196.70	66,353	12,255	
126	83.40	29608	5,469	141.67	46331	8,557	225.07	75,939	14,026	
127	165.44	58734	10,848	457.36	149572	27,626	622.80	208,306	38,474	
128	217.00	77038	14,229	584.08	191014	35,280	801.08	268,052	49,509	
129	172.60	61276	11,318	488.60	159789	29,513	661.20	221,064	40,831	
Total	782.84	277920	51,332	1936.45	633284	116,968	2719.29	911,204	168,299	

F8sm, F7s,m, F6s,m, F5s,m, F11s

Quercus				F8sm, F7s,m, F6s,m, F5s,m F11m, F12s, F13s, F1s, F2sm, F3m					
	(33%)	(355.0)	(0.185)	(33%)	(327.0)	(0.185)			
123	8.91	3,163	584	20.46	6,691	1,236	29.37	9,854	1,820
124	14.85	5,272	974	25.89	8,465	1,564	40.74	13,737	2,537
125	23.89	8,482	1,567	41.02	13,415	2,478	64.91	21,897	4,044
126	27.52	9,771	1,805	46.75	15,289	2,824	74.27	25,060	4,629
127	54.60	19,382	3,580	150.93	49,359	9,117	205.52	68,741	12,696
128	71.61	25,423	4,696	192.75	63,035	11,642	264.36	88,457	16,338
129	56.96	20,221	3,735	161.24	52,730	9,739	218.20	72,951	13,474
Total	258.34	91,714	16,940	639.03	208,984	38,599	897.37	300,697	55,539

F8sm, F7s,m, F6s,m, F5s,m, F11s

Quercus				F8sm, F7s,m, F6s,m, F5s,m F11m, F12s, F13s, F1s, F2sm, F3m					
	(33%)	(375.0)	(0.185)	(33%)	(347.0)	(0.185)			
143	8.91	3,341	617	20.46	7,100	1,311	29.37	10,442	1,929
144	14.85	5,569	1,029	25.89	8,983	1,659	40.74	14,552	2,688
145	23.89	8,960	1,655	41.02	14,235	2,629	64.91	23,195	4,284
146	27.52	10,321	1,906	46.75	16,224	2,997	74.27	26,545	4,903
147	54.60	20,474	3,782	150.93	52,377	9,674	205.52	72,851	13,456
148	71.61	26,855	4,960	192.75	66,889	12,354	264.36	93,744	17,315
149	56.96	21,360	3,945	161.24	55,955	10,335	218.20	77,315	14,280
Total	258.34	96,880	17,894	639.03	221,764	40,960	897.37	318,645	58,854

F8sm, F7s,m, F6s,m, F5s,m, F11s

Quercus				F8sm, F7s,m, F6s,m, F5s,m F11m, F12s, F13s, F1s, F2sm, F3m					
	(34%)	(385.0)	(0.185)	(34%)	(357.0)	(0.185)			
163	9.18	3,534	653	21.08	7,526	1,390	30.26	11,061	2,043
164	15.30	5,891	1,088	26.67	9,522	1,759	41.97	15,413	2,847
165	24.62	9,478	1,751	42.26	15,089	2,787	66.88	24,566	4,537
166	28.36	10,917	2,016	48.17	17,193	3,176	76.52	28,115	5,193
167	56.25	21,657	4,000	155.50	55,520	10,254	211.75	77,177	14,255
168	73.78	28,406	5,247	198.59	70,902	13,096	272.37	99,309	18,342
169	58.68	22,594	4,173	166.12	59,312	10,955	224.81	81,906	15,128
Total	266.17	102,478	18,928	658.39	235,068	43,417	924.56	337,546	62,345



Appendix F-18(2)-1 Products by operation year (Damaged woods cutting and selling Olt County)

Tree species	Quercus spp.				Robinia pseudoacacia				Populus spp.				Total	
	By Use		Sub Total m <sup>3</sup>	Forest products 10%	By Use		Sub Total m <sup>3</sup>	Forest products 5%	By Use		Sub Total m <sup>3</sup>	Forest products 5%		
	Forest products	Others			Forest products	Others			Forest products	Others				
3	361	10,509	10,870	82	82	82	82	82	82	82	82	361	10,590	10,951
4	374	13,135	13,509	284	284	288	288	288	288	288	288	378	13,419	13,797
5	99	15,706	15,805	441	441	448	448	448	448	448	448	107	16,146	16,253
6	104	17,032	17,135	673	673	695	695	695	695	695	695	125	17,705	17,830
7	774	26,843	27,617									4	26,919	27,697
8		33,030	33,030										33,030	33,030
9		27,130	27,130									4	27,130	27,130
Total	1,711	143,384	145,096	33	1,480	1,513	1,513	1,513	1,513	1,513	1,513	4	144,940	146,689

Appendix F-18(2)-2 Profit by operation year (Damaged woods selling Olt County)

Tree species	Quercus spp.				Robinia pseudoacacia				Populus spp.				Total	
	By Use		Sub Total	Forest products (32.0)	By Use		Sub Total	Forest products (19.0)	By Use		Sub Total	Forest products (18.0)		
	Forest products	Others			Forest products	Others			Forest products	Others				
3	11,556	169,190	180,746	1,214	1,214	1,214	1,214	1,214	1,214	1,214	1,214	11,556	170,404	181,960
4	11,974	211,468	223,443	4,235	4,235	4,312	4,312	4,312	4,312	4,312	4,312	12,052	215,703	227,755
5	3,160	252,865	256,025	6,564	6,564	6,715	6,715	6,715	6,715	6,715	6,715	3,311	259,429	262,739
6	3,313	274,212	277,525	10,034	10,034	10,435	10,435	10,435	10,435	10,435	10,435	3,714	284,246	287,959
7	24,764	432,169	456,933									72	433,126	457,963
8		531,790	531,790										531,790	531,790
9		436,793	436,793										436,793	436,793
Total	54,768	2,308,487	2,363,254	629	22,047	22,676	22,676	22,676	22,676	22,676	22,676	72	2,331,492	2,386,960

Appendix F-18(2)-3 Profit by operation year (Damaged woods selling, Olt County, F5)

Damage Grade	Forest Management Type F5										By Use			Sales Volume						
	Strong					Moderate					Weak		Sub Total	Forest products	Others	Forest products	Others			
	Over 81 years or under	Over 81 years or under	Over 81 years or under	Over 81 years or under	Over 81 years or under	Over 81 years or under	Over 81 years or under	Over 81 years or under	Over 81 years or under	Over 81 years or under	Cutting Area	80 years or under						All	80 years or under	
Operation Year	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	US\$	US\$	
3	6.00	6.00	886	2.00	2.00	281	2.00	2.00	2.00	2.00	93.89	2.711	1.167	2.711	117	3.761	3.734	60,560	32.0	16.1
4	7.00	0.64	95	2.00	2.00	281	2.00	2.00	2.00	93.89	2.711	3.380	375	3.380	38	3.717	1,200	59,851		
5	6.50			2.00	2.00	281	2.00	2.00	2.00	93.89	2.711	281	3.395	28	3,647	898	58,718			
6	10.00			4.50	4.50	631	4.50	4.50	4.50	93.89	2.711	631	3.762	63	4,331	2,020	69,724			
7	26.00			67.00	40.15	26.85	67.00	3.878	26.85	93.88	2.711	5.633	9.322	563	14,392	18,026	231,704			
8	47.00			80.00	80.00	80.00	80.00	11.554	80.00	93.88	2.711	19.205	14.644	19,205			309,205			
9	40.22			53.35	53.35	53.35	53.35	7.705	53.35	93.88	2.711	14.644		14,644			235,765			
Total	142.72	6.64	136.08	981	210.85	50.65	160.20	7.106	23.136	657.20	18.978	8.087	56.419	809	63.697	25.879	1,025,527			

Appendix F-18(2)-4 Profit by operation year (Damaged woods selling, Olt County, F6)

Damage Grade	Forest Management Type F6										By Use			Sales Volume					
	Strong					Moderate					Weak		Sub Total	Forest products	Others	Forest products	Others		
	Over 81 years or under	Over 81 years or under	Over 81 years or under	Over 81 years or under	Over 81 years or under	Over 81 years or under	Over 81 years or under	Over 81 years or under	Over 81 years or under	Over 81 years or under	Cutting Area	80 years or under						All	80 years or under
Operation Year	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	US\$	US\$
3	4.00	4.00	412	3.00	3.00	303	3.00	3.00	3.00	87.64	2.615	715	2.615	72	3,259	2,288	52,467		
4	4.00	4.00	412	3.00	3.00	303	3.00	3.00	3.00	87.64	2.615	715	2.615	72	3,259	2,288	52,467		
5	4.00	3.92	404	3.00	3.00	303	3.00	3.00	3.00	87.64	2.615	707	2.624	71	3,260	2,262	52,493		
6	6.00			4.00	4.00	404	4.00	4.00	4.00	87.64	2.615	404	3.291	40	3,655	1,293	58,844		
7	21.00			38.00	20.85	17.15	38.00	2.206	17.15	87.64	2.615	2.106	7.187	211	9,083	6,739	146,228		
8	23.00			67.00	67.00	67.00	67.00	8.618	67.00	87.65	2.616	13.825	12.486	13,825			222,585		
9	18.48			60.55	60.55	60.55	60.55	7.789	60.55	87.65	2.616	12.486		12,486			201,029		
Total	80.48	11.92	68.56	1228	178.55	33.85	144.70	3.419	18.613	613.50	18.908	4.647	44.645	465	48.827	14.869	786,114		

Appendix F-18(2)-5 Profit by operation year (Damaged woods selling, Olt County, F7)

Damage Grade	Forest Management Type F7										By Use			Sales Volume								
	Strong					Moderate					Weak		Sub Total	Forest products	Others	Forest products	Others					
	Over 81 years or under	80 years or under	Over 81 years or under	80 years or under	Cutting Area	Over 81 years or under	80 years or under	Over 81 years or under	80 years or under	Cutting Area	All	Over 81 years or under						80 years or under				
Operation Year	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	US\$	US\$	
3	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	174	165	165	517	17	665	528	10,714			
4	5.00	5.00	5.00	3.00	0.70	2.30	3.00	116	384	3.00	3.00	869	116	1,596	12	1,700	370	27,373				
5	7.00	7.00	7.00	9.00		9.00	1,216		1,504	9.00	9.00	1,355		3,063		3,063		49,318				
6	7.80	7.80	7.80	3.45		3.45	1,355		576	3.45	3.45			2,275		2,275		36,626				
7				6.00		6.00			1,003	6.00	6.00			1,346		1,346		21,666				
8																						
9																						
Total	20.80	20.80	20.80	22.45	1.70	20.75	3,614	281	3,467	22.45	1,716	281	8,797	28	9,049	898	145,696					

Appendix F-18(2)-6 Profit by operation year (Damaged woods selling, Olt County, F8)

Damage Grade	Forest Management Type F8										By Use			Sales Volume								
	Strong					Moderate					Weak		Sub Total	Forest products	Others	Forest products	Others					
	Over 81 years or under	80 years or under	Over 81 years or under	80 years or under	Cutting Area	Over 81 years or under	80 years or under	Over 81 years or under	80 years or under	Cutting Area	All	Over 81 years or under						80 years or under				
Operation Year	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	US\$	US\$	
3	7.00	7.00	7.00	3.00	0.65	2.35	1,455	109	273	3.00	3.00	569	109	1,415	156	2,823	5,006	45,449				
4	17.00	12.20	4.80	4.00	4.00	4.00	2,536	465	465	4.00	4.00	569	465	2,175	254	4,458	8,116	71,777				
5	27.00	27.00	27.00	12.00		12.00	3,198		1,395	12.00	12.00	3,198		5,735		5,735		92,336				
6	41.00	41.00	41.00	6.65		6.65	4,856		773	6.65	6.65	881		6,771		6,771		109,018				
7	7.44	7.44	7.44											2,023		2,023		32,571				
8																						
9																						
Total	99.44	19.20	80.24	25.65	0.65	25.00	9,504	109	2,907	182.40	5,709	4,101	18,120	410	21,811	13,122	351,150					



Appendix F-18(2)-7 Profit by operation year (Damaged woods selling, Olt County, F9)

Damage Grade	Forest Management Type F9										By Use			Sales Volume						
	Strong					Moderate					Weak		Sub Total	Forest products	Others	Forest products	Others			
	Over 20 years or under	Over 19 years or under	Over 20 years or under	Over 19 years or under	Over 20 years or under	Over 19 years or under	Over 20 years or under	Over 19 years or under	Over 20 years or under	Over 19 years or under	All	Over 20 years or under						Over 19 years or under		
Cutting Area	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	
Operation Year	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
3																				
4																				
5																				
6																				
7																				
8																				
9																				
Total	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80

Appendix F-18(2)-8 Profit by operation year (Damaged woods selling, Olt County, F10)

Damage Grade	Forest Management Type F10										By Use			Sales Volume						
	Strong					Moderate					Weak		Sub Total	Forest products	Others	Forest products	Others			
	Over 20 years or under	Over 19 years or under	Over 20 years or under	Over 19 years or under	Over 20 years or under	Over 19 years or under	Over 20 years or under	Over 19 years or under	Over 20 years or under	Over 19 years or under	All	Over 20 years or under						Over 19 years or under		
Cutting Area	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha	ha
Operation Year	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
3																				
4																				
5																				
6																				
7																				
8																				
9																				
Total	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00



Appendix F18(3)-1 Products by operation year (Damaged woods cutting and selling Dolj County)

Tree species	Quercus spp.				Robinia pseudoacacia				Populus spp.				Total
	By Use		Sub Total m <sup>3</sup>	Others	By Use		Sub Total m <sup>3</sup>	Others	By Use		Sub Total m <sup>3</sup>	Others	
	Forest products (10%)	Others			Forest products (5%)	Others			Forest products (5%)	Others			
3	844	16,108	16,952	155	4,884	5,040	999	20,992	21,992				
4	719	17,368	18,087	281	8,039	8,319	999	25,407	26,406				
5	662	22,018	22,680	555	14,938	15,492	74	45,972	47,888				
6	963	22,243	23,206	878	21,697	22,575	9	63,964	66,552				
7	2,579	63,581	66,160				248	74,968	74,968				
8													
9													
Total	6,016	279,240	285,255	1,869	49,557	51,426	83	2,416	331,213	7,967	2,499	331,213	339,180

Appendix F18(3)-2 Income by operation year (Damaged woods selling Dolj County)

Tree species	Quercus spp.				Robinia pseudoacacia				Populus spp.				Total
	By Use		Sub Total US\$	Others	By Use		Sub Total US\$	Others	By Use		Sub Total US\$	Others	
	Forest products (32.0)	Others (16.1)			Forest products (19.0)	Others (14.9)			Forest products (18.0)	Others (12.6)			
3	27,007	259,343	286,350	2,954	72,775	75,729	29,961	332,118	362,079				
4	23,003	279,627	302,630	5,332	119,775	125,107	28,335	399,402	427,737				
5	21,190	334,493	375,683	10,536	222,573	233,109	31,727	577,066	608,792				
6	30,829	358,108	388,937	16,680	323,280	339,960	48,845	707,001	755,846				
7	82,524	1,023,655	1,106,179				82,684	1,028,482	1,111,166				
8	7,951	1,202,978	1,210,929				7,951	1,202,978	1,210,929				
9													
Total	192,504	4,495,759	4,688,263	35,502	738,402	773,905	1,497	30,440	5,264,601	229,503	31,936	5,264,601	5,494,104

Appendix F-18(3)-3 Income by operation year (Damaged woods selling,Dolj County,F1)

Damage Grade	Forest Management Type F1									By Use			Sales Volume						
	Strong			Moderate			Weak			Sub Total	Forest products	Others	Forest products	Others					
	Over 81 years or under 170.99	Over 81 years or under	80 years or under	Cutting Area	Over 81 years or under	Over 81 years or under	80 years or under	Cutting Area	All						Over 81 years or under	80 years or under	Forest products	Others	
3	ha	ha	m <sup>3</sup>	ha	ha	m <sup>3</sup>	ha	m <sup>3</sup>	m <sup>3</sup>	ha	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	US\$	US\$	32	16.1	
4																			
5																			
6																			
7	19.68	19.68	3.365								3.365					3.029	10.768	48.759	
8																			
9																			
Total	19.68	19.68	3.365								3.365					3.029	10.768	48.759	

Appendix F-18(3)-4 Income by operation year (Damaged woods selling,Dolj County,F2)

Damage Grade	Forest Management Type F2									By Use			Sales Volume						
	Strong			Moderate			Weak			Sub Total	Forest products	Others	Forest products	Others					
	Over 81 years or under 184.77	Over 81 years or under	80 years or under	Cutting Area	Over 81 years or under	Over 81 years or under	80 years or under	Cutting Area	All						Over 81 years or under	80 years or under	Forest products	Others	
3	ha	ha	m <sup>3</sup>	ha	ha	m <sup>3</sup>	ha	m <sup>3</sup>	m <sup>3</sup>	ha	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	US\$	US\$	32.0	16.1	
4																			
5																			
6																			
7	27.12	27.12	5.011	6.08	6.08	1.214					5.011	424	13.75	424		501	16.035	79.443	
8											1.214	424	13.75	424		121	3.885	24.425	
9																			
Total	27.12	27.12	5.011	6.08	6.08	1.214					8.49	849	27.50	849		622	19.920	103.869	

Appendix F-18(3)-5 Income by operation year (Damaged woods selling, Dolj County, F3)

Damage Grade	Forest Management Type F3										By Use			Sales Volume						
	Strong					Moderate					Weak		Sub Total	Forest products	Others	Forest products	Others			
	Over 81 years or under	80 years or under	Over 81 years or under	80 years or under	Cutting Area	Over 81 years or under	80 years or under	Over 81 years or under	80 years or under	Cutting Area	All	Over 81 years or under						80 years or under		
Operation Year	ha	ha	ha	ha	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	ha	ha	ha	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	10%	m <sup>3</sup>	US\$	US\$	
3	14.00	14.00	14.00	14.00					1.44	1.44					374		37		32.0	16.1
4	14.00	14.00	14.00	14.00					1.44	1.44					374		37	1.197	5.419	
5	14.00	14.00	14.00	14.00																
6	20.00	20.00	20.00	20.00																
7	54.00	54.00	54.00	54.00																
8	98.00	98.00	98.00	98.00																
9	84.32	84.32	84.32	84.32																
Total	298.32	298.32	298.32	298.32					1.44	1.44		374	374				37	1.197	5.419	

Appendix F-18(3)-6 Income by operation year (Damaged woods selling, Dolj County, F5)

Damage Grade	Forest Management Type F5										By Use			Sales Volume						
	Strong					Moderate					Weak		Sub Total	Forest products	Others	Forest products	Others			
	Over 81 years or under	80 years or under	Over 81 years or under	80 years or under	Cutting Area	Over 81 years or under	80 years or under	Over 81 years or under	80 years or under	Cutting Area	All	Over 81 years or under						80 years or under		
Operation Year	ha	ha	ha	ha	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	ha	ha	ha	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	10%	m <sup>3</sup>	US\$	US\$	
3	14.00	14.00	14.00	14.00					3.00	3.00		432	432				217	6.941	52.332	
4	14.00	14.00	14.00	14.00					3.00	3.00		432	432				217	6.941	52.332	
5	14.00	14.00	14.00	14.00					3.00	3.00		432	432				217	6.941	52.332	
6	20.00	20.00	20.00	20.00					5.50	5.50		792	792				327	10.475	68.334	
7	54.00	54.00	54.00	54.00					35.35	35.35	47.65	5,087	5,409				1,179	37.722	278.793	
8	98.00	98.00	98.00	98.00					100.00	100.00	100.00	11,351	11,351				127	4,066	399.408	
9	84.32	84.32	84.32	84.32					65.4	65.4	65.40	7,423	7,423				19,305	73,085	1,214.344	
Total	298.32	298.32	298.32	298.32					262.90	262.90	213.05	7,174	24,183				2,284	73,085	1,214.344	

Appendix F-18(3)-7 Income by operation year (Damaged woods selling,Dolj County.F6)

Damage Grade	Forest Management Type F6										By Use			Sales Volume							
	Strong					Moderate					Weak		Sub Total		Forest products	Others	Forest products	Others			
	Over 81 years or under	80 years or under	Over 81 years or under	80 years or under	Cutting Area	Over 81 years or under	80 years or under	Over 81 years or under	80 years or under	Cutting Area	All	Over 81 years or under	80 years or under	Forest products					Others		
Operation Year	ha	ha	ha	ha	ha	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	100.89	158.71	159.47	115.28	24.15	m <sup>3</sup>	m <sup>3</sup>	US\$	US\$		
3	16.00	16.00	16.00	16.00	13.00	2,539	2,539	2,073	13.00	13.00	13.00	2,073	2,073	247.73	5,983	4,613	5,983	461	10,134	14,760	163,160
4	16.00	16.00	16.00	16.00	13.00	2,539	2,539	2,073	13.00	13.00	13.00	2,073	2,073	247.73	5,983	4,613	5,983	461	10,134	14,760	163,160
5	16.00	16.00	16.00	16.00	12.00	3,809	3,809	2,552	12.00	12.00	12.00	2,552	2,552	247.73	5,983	4,453	5,983	445	9,991	14,250	160,849
6	24.00	24.00	24.00	24.00	16.00	6,671	6,671	1,993	16.00	16.00	16.00	1,993	1,993	247.73	5,983	6,361	5,983	636	11,707	20,354	188,490
7	89.00	23	66.12	97.00	162.00	9,787	9,787	283.00	162.00	162.00	149.50	283.00	283.00	247.73	5,983	5,625	29,888	562	34,951	17,999	562,706
8	97.00	80.08	80.08	80.08	283.00	8,079	8,079	258.8	283.00	283.00	258.8	258.8	258.8	247.72	5,983	48,394	48,394	48,394	48,394	48,394	779,145
9	80.08	243.20	80.08	80.08	757.80	24,557	24,557	691.30	757.80	757.80	691.30	691.30	691.30	247.72	5,983	43,897	43,897	43,897	43,897	43,897	706,741
Total	338.08	94.88	243.20	48.00	67.20	15,058	15,058	182	67.20	67.20	2.50	378	378	1,734.10	41,880	25,663	146,111	2,566	169,208	82,123	2,724,252

Appendix F-18(3)-8 Income by operation year (Damaged woods selling,Dolj County.F7)

Damage Grade	Forest Management Type F7										By Use			Sales Volume							
	Strong					Moderate					Weak		Sub Total		Forest products	Others	Forest products	Others			
	Over 81 years or under	80 years or under	Over 81 years or under	80 years or under	Cutting Area	Over 81 years or under	80 years or under	Over 81 years or under	80 years or under	Cutting Area	All	Over 81 years or under	80 years or under	Forest products					Others		
Operation Year	ha	ha	ha	ha	ha	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	74.98	252.78	151.2	133.06	29.71	m <sup>3</sup>	m <sup>3</sup>	US\$	US\$		
3	4.00	0.72	3.28	10.00	4.00	182	182	378	4.00	4.00	1.50	378	378	10.26	305	560	750	56	1,254	1,792	20,195
4	10.00	10.00	10.00	10.00	7.00	750	750	931	7.00	7.00	7.00	931	931	10.26	305	1,986	1,986	1,986	1,986	1,986	31,975
5	18.00	18.00	18.00	18.00	26.00	1,350	1,350	3,460	26.00	26.00	26.00	3,460	3,460	10.26	305	5,114	5,114	5,114	5,114	5,114	82,335
6	16.72	16.72	16.72	16.72	11.20	1,254	1,254	1,490	11.20	11.20	11.20	1,490	1,490	10.26	305	3,049	3,049	3,049	3,049	3,049	49,084
7	16.72	16.72	16.72	16.72	19.00	2,528	2,528	19.00	19.00	19.00	19.00	2,528	2,528	10.26	305	2,833	2,833	2,833	2,833	2,833	45,610
8	48.72	48.00	48.00	48.00	67.20	3,599	3,599	64.70	67.20	67.20	64.70	64.70	64.70	51.30	1,524	560	13,732	56	14,236	1,792	229,199
Total	48.72	0.72	48.00	48.00	67.20	182	182	378	67.20	67.20	2.50	378	378	1,734.10	41,880	25,663	146,111	2,566	169,208	82,123	2,724,252

Appendix F-18(3)-9 Income by operation year (Damaged woods selling, Dolj County, F8)

Damage Grade	Forest Management Type F8										By Use			Sales Volume								
	Strong					Moderate					Weak		Sub Total	Forest products	Others	Forest products	Others					
	Over 81 years or under	80 years or under	Over 81 years or under	80 years or under	Over 81 years or under	80 years or under	Over 81 years or under	80 years or under	Cutting Area	All	Over 81 years or under	80 years or under										
Operation Year	Cutting Area	ha	Over 81 years or under	80 years or under	Over 81 years or under	80 years or under	Over 81 years or under	80 years or under	Cutting Area	ha	Over 81 years or under	80 years or under	Cutting Area	ha	33.60	481	1.469	3,514	105	32.0	16.1	
3	3.00	3.00	199	5.00	1,098	8.40	282	1,098	8.40	282	1,098	481	8.40	282	33.60	481	1.469	3,514	105	32.0	16.1	
4	8.00	8.00	530	6.00	33	5.85	282	33	6.00	18.00	2,519	1,631	8.40	282	33.60	1,631	3	1,661	105	32.0	16.1	
5	13.00	13.00	862	18.00		18.00	282		18.00	12.15	1,700		8.40	282	33.60	3,663		3,663		32.0	16.1	
6	19.00	19.00	1,260	12.15		12.15	282		12.15				8.40	282	33.60	3,242		3,242		32.0	16.1	
7	3.56	3.56	256				282						8.40	282	33.60	518		518		32.0	16.1	
8																						
9																						
Total	46.56	46.56	3,087	41.15	5.15	36.00	1,131	5,038	42.00	1,411	1,131	9,536								3,619	169,918	

Appendix F-18(3)-10 Income by operation year (Damaged woods selling, Dolj County, F9)

Damage Grade	Forest Management Type F9										By Use			Sales Volume								
	Strong					Moderate					Weak		Sub Total	Forest products	Others	Forest products	Others					
	Over 20 years or under	19 years or under	Over 20 years or under	19 years or under	Over 20 years or under	19 years or under	Over 20 years or under	19 years or under	Cutting Area	All	Over 20 years or under	19 years or under										
Operation Year	Cutting Area	ha	Over 20 years or under <td>19 years or under <td>Over 20 years or under <td>19 years or under <td>Over 20 years or under <td>19 years or under <td>Cutting Area</td> <td>ha</td> <td>Over 20 years or under <td>19 years or under <td>Cutting Area</td> <td>ha</td> <td>30.42</td> <td>1,217</td> <td>3,109</td> <td>1,217</td> <td>2,954</td> <td>62,144</td> <td>19.0</td> <td>14.9</td> </td></td></td></td></td></td></td>	19 years or under <td>Over 20 years or under <td>19 years or under <td>Over 20 years or under <td>19 years or under <td>Cutting Area</td> <td>ha</td> <td>Over 20 years or under <td>19 years or under <td>Cutting Area</td> <td>ha</td> <td>30.42</td> <td>1,217</td> <td>3,109</td> <td>1,217</td> <td>2,954</td> <td>62,144</td> <td>19.0</td> <td>14.9</td> </td></td></td></td></td></td>	Over 20 years or under <td>19 years or under <td>Over 20 years or under <td>19 years or under <td>Cutting Area</td> <td>ha</td> <td>Over 20 years or under <td>19 years or under <td>Cutting Area</td> <td>ha</td> <td>30.42</td> <td>1,217</td> <td>3,109</td> <td>1,217</td> <td>2,954</td> <td>62,144</td> <td>19.0</td> <td>14.9</td> </td></td></td></td></td>	19 years or under <td>Over 20 years or under <td>19 years or under <td>Cutting Area</td> <td>ha</td> <td>Over 20 years or under <td>19 years or under <td>Cutting Area</td> <td>ha</td> <td>30.42</td> <td>1,217</td> <td>3,109</td> <td>1,217</td> <td>2,954</td> <td>62,144</td> <td>19.0</td> <td>14.9</td> </td></td></td></td>	Over 20 years or under <td>19 years or under <td>Cutting Area</td> <td>ha</td> <td>Over 20 years or under <td>19 years or under <td>Cutting Area</td> <td>ha</td> <td>30.42</td> <td>1,217</td> <td>3,109</td> <td>1,217</td> <td>2,954</td> <td>62,144</td> <td>19.0</td> <td>14.9</td> </td></td></td>	19 years or under <td>Cutting Area</td> <td>ha</td> <td>Over 20 years or under <td>19 years or under <td>Cutting Area</td> <td>ha</td> <td>30.42</td> <td>1,217</td> <td>3,109</td> <td>1,217</td> <td>2,954</td> <td>62,144</td> <td>19.0</td> <td>14.9</td> </td></td>	Cutting Area	ha	Over 20 years or under <td>19 years or under <td>Cutting Area</td> <td>ha</td> <td>30.42</td> <td>1,217</td> <td>3,109</td> <td>1,217</td> <td>2,954</td> <td>62,144</td> <td>19.0</td> <td>14.9</td> </td>	19 years or under <td>Cutting Area</td> <td>ha</td> <td>30.42</td> <td>1,217</td> <td>3,109</td> <td>1,217</td> <td>2,954</td> <td>62,144</td> <td>19.0</td> <td>14.9</td>	Cutting Area	ha	30.42	1,217	3,109	1,217	2,954	62,144	19.0	14.9
3	20.00	20.00	1,969	10.00	1,140	40.00	1,217	3,109	40.00	1,217	3,109	1,217	40.00	1,217	30.42	1,217	3,109	1,217	2,954	62,144	19.0	14.9
4	35.00	35.00	3,446	19.00	2,167	40.00	1,217	5,613	40.00	1,217	5,613	1,217	40.00	1,217	30.42	281	6,549	5,332	97,576	19.0	14.9	
5	60.00	60.00	5,907	44.00	5,017	40.00	1,217	10,925	40.00	1,217	10,925	1,217	40.00	1,217	30.42	546	11,595	10,378	172,769	19.0	14.9	
6	115.10	115.10	11,332	54.60	6,226	40.00	1,217	17,558	40.00	1,217	17,558	1,217	40.00	1,217	30.42	878	17,897	16,680	266,669	19.0	14.9	
7																						
8																						
9																						
Total	230.10	230.10	22,655	127.60	14,550	160.00	4,867	37,205	4,867	4,867	1,860	4,867								35,345	599,158	

Appendix F-18(3)-11 Income by operation year (Damaged woods selling, Dolj County, F10)

Damage Grade	Forest Management Type F10										By Use			Sales Volume				
	Strong					Moderate					Weak	Sub Total	Forest products	Others	Forest products	Others		
	Over 20 years or under	19 years or under	Over 20 years or under	19 years or under	Over 20 years or under	19 years or under	Over 20 years or under	19 years or under	Over 20 years or under	19 years or under							Over 20 years or under	19 years or under
Operation Year	Cutting Area	ha	Over 20 years or under	m <sup>3</sup>	40.64	Cutting Area	ha	Over 20 years or under	m <sup>3</sup>	51.87	Cutting Area	ha	All	m <sup>3</sup>	14.97	5%	19.0	14.9
3	10.00	ha	10.00	m <sup>3</sup>	406	4.0	ha	4.00	m <sup>3</sup>	207	6.68	ha	99.6	m <sup>3</sup>	713		US\$	10.630
4	24.00	ha	24.00	m <sup>3</sup>	975	8.00	ha	8.00	m <sup>3</sup>	415	6.68	ha	99.6	m <sup>3</sup>	1,490		US\$	22,199
5	58.00	ha	58.00	m <sup>3</sup>	2,357	13.00	ha	13.00	m <sup>3</sup>	674	6.67	ha	99.4	m <sup>3</sup>	3,131		US\$	46,649
6	82.30	ha	82.30	m <sup>3</sup>	3,345	6.85	ha	6.85	m <sup>3</sup>	355	6.67	ha	99.4	m <sup>3</sup>	3,799		US\$	56,611
7		ha		m <sup>3</sup>			ha		m <sup>3</sup>			ha		m <sup>3</sup>				
8		ha		m <sup>3</sup>			ha		m <sup>3</sup>			ha		m <sup>3</sup>				
9		ha		m <sup>3</sup>			ha		m <sup>3</sup>			ha		m <sup>3</sup>				
Total	174.30	ha	174.30	m <sup>3</sup>	7,084	31.85	ha	31.85	m <sup>3</sup>	1,652	26.70	ha	398	m <sup>3</sup>	9,134		US\$	136,090

Appendix F-18(3)-12 Income by operation year (Damaged woods selling, Dolj County, F11)

Damage Grade	Forest Management Type F11										By Use			Sales Volume			
	Strong					Moderate					Weak	Sub Total	Forest products	Others	Forest products	Others	
	Over 20 years or under	19 years or under	Over 20 years or under	19 years or under	Over 20 years or under	19 years or under	Over 20 years or under	19 years or under	Over 20 years or under	19 years or under							
Operation Year	Cutting Area	ha	Over 20 years or under	m <sup>3</sup>	41.1	Cutting Area	ha	Over 20 years or under	m <sup>3</sup>	92.22	Cutting Area	ha	All	m <sup>3</sup>	5%	19.0	14.9
3		ha		m <sup>3</sup>			ha		m <sup>3</sup>			ha		m <sup>3</sup>		US\$	
4		ha		m <sup>3</sup>			ha		m <sup>3</sup>			ha		m <sup>3</sup>		US\$	
5		ha		m <sup>3</sup>		1.80	ha	1.80	m <sup>3</sup>	166		ha		m <sup>3</sup>	8	158	2,350
6		ha		m <sup>3</sup>			ha		m <sup>3</sup>			ha		m <sup>3</sup>			
7		ha		m <sup>3</sup>			ha		m <sup>3</sup>			ha		m <sup>3</sup>			
8		ha		m <sup>3</sup>			ha		m <sup>3</sup>			ha		m <sup>3</sup>			
9		ha		m <sup>3</sup>			ha		m <sup>3</sup>			ha		m <sup>3</sup>			
Total		ha		m <sup>3</sup>		1.80	ha	1.80	m <sup>3</sup>	166		ha		m <sup>3</sup>	8	158	2,350



Appendix F-18(3)-13 Income by operation year (Damaged woods selling, Dolj County, F12)

Damage Grade	Forest Management Type F12						Moderate			Weak			Sub Total			By Use			Sales Volume			
	Strong			Under 20			Cutting Area	Over 20 years or under	19 years or under	Cutting Area	Over 20 years or under	19 years or under	All	Over 20 years or under	19 years or under	Forest products	Others	Forest products	Others			
	Over 20 years or under	19 years or under	Under 20	Over 20 years or under	19 years or under	Over 20 years or under														19 years or under	5%	Others
Operation Year	ha	ha	ha	Over 20 years or under	19 years or under	18	ha	ha	ha	ha	ha	ha	ha	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	US\$	US\$	
3																						
4																						
5	2.50			2.50		45						0.60							54			805
6																						
7																						
8																						
9												0.60							54			805
Total	2.50			2.50		45						0.60							54			805

Appendix F-18(3)-14 Income by operation year (Damaged woods selling, Dolj County, F13)

Damage Grade	Forest Management Type F13						Moderate			Weak			Sub Total			By Use			Sales Volume			
	Strong			Under 20			Cutting Area	Over 20 years or under	19 years or under	Cutting Area	Over 20 years or under	19 years or under	All	Over 20 years or under	19 years or under	Forest products	Others	Forest products	Others			
	Over 20 years or under	19 years or under	Under 20	Over 20 years or under	19 years or under	Over 20 years or under														19 years or under	5%	Others
Operation Year	ha	ha	ha	Over 20 years or under	19 years or under	54.09	ha	ha	ha	ha	ha	ha	ha	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	US\$	US\$	
3																						
4																						
5																						
6	17.10	5.60	11.50	265.18	1.485	622	8.20	1.70	6.50	178	214											
7																						
8																						
9																						
Total	17.10	5.60	11.50	1,485	1,485	622	8.20	1.70	6.50	178	214								83	2,416	1,497	30,440

**Appendix F-19(1)-1 Cost by operation year(Production Cost Olt County Total)**

Forest Management Type	F5	F6	F7	F8	F9	F10	F11	F13	Total
Operation Year	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	US\$
3	7,157	6,558	1,266	4,462		180			19,623
4	7,365	6,558	3,281	7,197	275	361			25,038
5	7,261	6,558	5,894	11,009	275	543	172		31,712
6	8,684	7,190	4,387	13,798	1,027	507			35,594
7	29,400	18,302	2,527	4,114				142	54,484
8	37,378	25,663							63,042
9	28,554	23,227							51,780
<b>Total</b>	<b>125,799</b>	<b>94,056</b>	<b>17,356</b>	<b>40,580</b>	<b>1,577</b>	<b>1,591</b>	<b>172</b>	<b>142</b>	<b>281,273</b>

Appendix F-19(1)-2 Cost by operation year(Production Cost Olt County)

Forest Management Type F5							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha		ha		ha		US\$
3	6.00	1,246	2.00	557	93.89	5,355	7,157
4	7.00	1,453	2.00	557	93.89	5,355	7,365
5	6.50	1,350	2.00	557	93.89	5,355	7,261
6	10.00	2,076	4.50	1,252	93.89	5,355	8,684
7	26.00	5,399	67.00	18,647	93.88	5,354	29,400
8	47.00	9,759	80.00	22,265	93.88	5,354	37,378
9	40.22	8,351	53.35	14,848	93.88	5,354	28,554
Total	142.72	29,634	211	58,683	657.20	37,482	125,799

Forest Management Type F9							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha		ha		ha		US\$
3							
4			1.00	179	3.04	96	275
5			1.00	179	3.03	95	275
6	3.80	663	1.50	269	3.03	95	1,027
7							
8							
9							
Total	3.80	663	3.50	628	9.10	287	1,577

Forest Management Type F6							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha		ha		ha		US\$
3	4.00	784	3.00	721	87.64	5,053	6,558
4	4.00	784	3.00	721	87.64	5,053	6,558
5	4.00	784	3.00	721	87.64	5,053	6,558
6	6.00	1,176	4.00	961	87.64	5,053	7,190
7	21.00	4,118	38.00	9,131	87.64	5,053	18,302
8	23.00	4,510	67.00	16,100	87.65	5,053	25,663
9	18.48	3,624	60.55	14,550	87.65	5,053	23,227
Total	80.48	15,781	178.55	42,905	613.50	35,370	94,056

Forest Management Type F10							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha		ha		ha		US\$
3			1.00	109	2.15	71	18
4	1.00	73	2.00	217	2.15	71	36
5	2.00	146	3.00	326	2.15	71	54
6	3.00	219	2.00	217	2.15	71	50
7							
8							
9							
Total	6.00	438	8.00	870	8.60	284	1,59

Forest Management Type F7							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha		ha		ha		US\$
3	1.00	343	1.00	321	11.50	602	1,266
4	5.00	1,717	3.00	963	11.50	602	3,281
5	7.00	2,404	9.00	2,888	11.50	602	5,894
6	7.80	2,679	3.45	1,107	11.50	602	4,387
7			6.00	1,925	11.50	602	2,527
8							
9							
Total	20.80	7,143	22.45	7,204	57.50	3,009	17,356

Forest Management Type F11							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha		ha		ha		US\$
3							
4							
5	1.90	172					17
6							
7							
8							
9							
Total	1.90	172					17

Forest Management Type F8							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha		ha		ha		US\$
3	7.00	1,806	3.00	462	36.48	2,194	4,462
4	17.00	4,387	4.00	616	36.48	2,194	7,197
5	27.00	6,968	12.00	1,848	36.48	2,194	11,009
6	41.00	10,580	6.65	1,024	36.48	2,194	13,798
7	7.44	1,920			36.48	2,194	4,114
8							
9							
Total	99.44	25,661	25.65	3,949	182.40	10,970	40,580

Forest Management Type F13							
Damage Grade	Strong		Moderate		Weak		Sub Total
Operation Year	Cutting Area	Cost US\$	Cutting Area	Cost US\$	Cutting Area	Cost US\$	
Unit Cost	ha		ha		ha		US\$
3							
4							
5							
6							
7			1.60	142			142
8							
9							
Total			1.60	142			142

Appendix F-19(2)-1 Cost by operation year(Production Cost Dolj County Total)

Forest Management Type Operation Year	F1 Cost US\$	F2 Cost US\$	F3 Cost US\$	F5 Cost US\$	F6 Cost US\$	F7 Cost US\$	F8 Cost US\$	F9 Cost US\$	F10 Cost US\$	F11 Cost US\$	F12 Cost US\$	F13 Cost US\$	合計 US\$
3				6,762	18,103	2,206	2,180	9,561	1,577				40,389
4			744	6,762	18,103	3,834	2,926	15,093	3,293				50,755
5				6,762	17,869	9,898	6,646	26,833	6,919	367	118		75,414
6				8,841	20,608	5,876	5,635	41,494	8,397			3,729	94,579
7	6,697	10,816		35,574	69,332	5,532	882					694	129,526
8		3,261		50,503	99,364								153,128
9				38,941	89,901								128,842
Total	6,697	14,076	744	154,145	333,280	27,346	18,270	92,981	20,186	367	118	4,423	672,633